
Distribution Mapping and Analysis Portal (DisMAP)

INTRODUCTION

1. Background

Understanding how species are distributed in space and time and the factors which drive spatial patterns in distribution and abundance are central questions in ecology and important for species conservation and management. In fisheries stock assessments species distribution knowledge is used to identify stock structure and boundaries. Species distribution information also comes into play when making large scale marine spatial planning decisions, such as Marine Protected Area designations, or locations of human activities such as off-shore wind-farms or shipping lanes. However, as climatic and environmental conditions change, fish species may see changes in their productivity or their preferred locale (Pinsky et al. 2013, Poloczanska et al. 2016, Barange et al. 2018). Shifts in species distributions are already occurring at alarming rates, with one estimate placing it at 72 km/decade on average (Poloczanska et al. 2013). Well known examples of these shifts include mackerel in the eastern Atlantic and blueline tilefish and black sea bass in the western Atlantic which have all seen northward shifts in their distributions.

These shifts in distribution pose a central challenge to fisheries managers (Karp et al. 2019) as they can and already are having significant impacts on key management decisions. For instance, if a species moves out of its historical range, it may not be adequately sampled by research surveys, leading to biases in the index of abundance obtained from the survey data. Another complication can occur when a species shifts across management boundaries. This can be particularly challenging when the species is new to the management area into which it is shifting, and therefore no management regime is in place for it. Allocation also becomes an issue when species shift across management boundaries, as the fishermen in the species' historic range may want to maintain their historical allocation, and the fishermen in the area into which it has moved may also wish to be allocated some quota.

Given the potential impacts of shifting distributions on sustainable fisheries management, marine spatial planning and the cross-jurisdictional nature of the issue, it is crucial that scientists and managers have access to information on historic and projected stock distributions for use in decision-making. In a 2016 questionnaire, information on shifts in fish distributions ranked in the top two most important information needs among both fishers and non-fishers (MAFAC 2017). Although NMFS and partners collect extensive information on the distribution of species through surveys, and are increasingly conducting research into the distributions of fish stocks, this information is not currently available in a consistent, useful, easy to access format across regions. Species distribution modeling (SDM) analysis is done within a region on an ad hoc basis for specific stocks, generally relying on data from surveys from within that region. The primary public outlet for much of this SDM research is through peer-reviewed publications, ecosystem status reports, and/or stock assessment reports. However, there are several examples of online platforms which present species distribution modeling results to the public and resource managers, such as [OceanAdapt](#) and [Mid-Atlantic Ocean Data Portal](#). These portals have shown promise as decision support tools for fisheries managers, however these existing platforms and outlets do not enable easy

comparison between stocks within and across regions, or for the interactive exploration of results. Additionally, the SDM results and information are scattered between these various outlets making it challenging to find and compare information across stocks and regions.

Considering the large amounts of research on understanding species distributions, advancements in species distribution modeling, the clear management implications of shifting distributions, and the cross-jurisdictional nature of the issue, NMFS initiated development of a new portal building off of existing platforms to pull together the wealth of information on species distributions and provide robust information on marine species distributions to support science and management spanning across regions. The goal of the portal is to enable improved data integration, access to model results, and knowledge sharing across regions, to enhance not only NMFS ability to track species distribution shifts as they move across management boundaries or out of or into survey domains, but to also track NMFS progress and efforts to understand and account for these shifts.

This NMFS Technical Memorandum summarizing the data processing, quality control, analyses, and content of the DisMAP as of **May 2nd, 2023**.

2. Revision History

March 2022:	Portal published.
December 2022:	Hawaii Deep 7 distribution products and BFISH survey data added to portal
April 2023:	Annual data update; Addition of Northern Bering Sea region; change in species filtering criteria to also have to be present in >5% of hauls each year as well as present in at least 3/4 th of survey years

SPECIES DISTRIBUTION PRODUCTS

3. Data sources and Data Processing

In this latest version of the portal, species distribution products are derived from regional fishery-independent survey data. For the continental U.S., the survey data comes from regional fishery-independent bottom-trawl surveys. Survey data for Hawai'i is for the Deep-7 species complex only and comes from the Bottomfish Fishery-independent Survey in Hawai'i (a.k.a., BFISH). When more than one survey is conducted in a region (e.g. spring, summer, and fall) we analyze each season separately.

These survey data can be accessed through regional databases (see Table 1) or through reaching out to survey leads and exist in many different tables and formats. The first step in making these data available in DisMAP and in a format which can be used to develop the subsequent species distribution products, is compiling and processing the data into a standard format with common data structure and variable names. This was carried out using an R script originally developed by the Ocean Adapt team at Rutgers University (OceanAdapt 2021) and modified to meet the needs of DisMAP. For each survey data set, the code corrects for errors such as typos in species names, rows with column headers in them (e.g. Alaska), and changes -9999 to NA. The code also combines the various tables for each region, removes unnecessary columns, and renames columns as necessary to have standard column names across the regions. Additionally, for three regions (Southeast, West Coast (annual and triennial), and Gulf of Mexico) the wtpcue is not reported and therefore is calculated in the R script. This involves calculating

Region	Season	Duration	Taxa > 3/4 of years	Core species	Data filtering notes	Data Source
Aleutian Islands	Summer	1991-2021	56	45	none	https://www.fisheries.noaa.gov/foss/f?p=215:28:8068160126822::::
Eastern Bering Sea	Summer	1982-2022	67	58	remove years 1982, 1983, 1984, 1986	
Gulf of Alaska	Summer	1993-2021	67	63	remove year 2001; strata > 510	
Northern Bering Sea	Summer	2010, 2017-2022	68	68	none	
West Coast Triennial	Summer	1977-2004	51	50	keep only strata sampled all 10 years of survey	https://www.webapps.nwfsc.noaa.gov/data/map
West Coast Annual	Summer	2003-2022	99	99	Remove year 2019; strata sampled in >= 19 years	
Gulf of Mexico	Summer	1982-2022	112	87	keep years >= 2008, drop 2022; keep strata sampled 12 of years 2008-2021	https://seamap.gsmfc.org/
Southeast U.S. Shelf	Fall	1989-2021	71	67	remove years 1986, 1978, 2018, 2019	http://www.seamap.org/datapage.html
	Spring	1989-2021	60	58	keep only strata sampled all years of survey	
	Summer	1989-2021	66	64	none	
Northeast U.S. Shelf	Fall	1963-2022	52	42	keep years > 1973, dropped 2017; keep strata sampled all years	https://www.fisheries.noaa.gov/inport/item/22560
	Spring	1968-2022	47	37	keep years > 1973, drop 2020, 2014, 1975; keep strata sampled all years	https://www.fisheries.noaa.gov/inport/item/22561
Hawai'i Islands	Fall	2016-2022	7	7	none	https://www.fisheries.noaa.gov/inport/item/20969

Table 1: NOAA Fisheries fishery-independent surveys compiled for this analysis, including season of the survey, duration, number of taxa sampled in at least 5% of tows in a year in at least 3/4th of the survey years, and a subset of those species caught every year (core species), notes on which strata and years were kept or removed through the data processing, and links to the original data source for each survey.

the area swept for each haul associated with each weight, and then dividing the weight by the calculated area swept, to get the weight per unit effort (kg per ha). To ensure that changes in survey extent over time do not impact the estimate of distribution shifts, we also standardize each survey to a consistent spatial footprint by removing strata which have poor temporal coverage. Years with poor sampling coverage are also removed from the dataset used for analysis (see Table 1 for notes on data filtering in each region). In Alaska and the West Coast, we combine some species into species complexes due to difficulty in distinguishing them to the species level and/or to keep consistency with how they are assessed for management purposes.

After this data cleaning process, the following standard set of columns are selected for each region: region, sampleid, year, lat, lon, stratum, stratumarea, depth, spp, wtcpue. At this point the cleaned and filtered regional datasets are combined into one table, and a final taxonomic QA/QC is conducted. This QA/QC involves removing higher taxon codes (such as family or order level classifications), which are generally used as a ‘catch all’ for hard to identify specimens within those families or orders, and species that are poorly sampled by the trawl gear (see Appendix I for list of taxon removed). The data is further trimmed to only include species that are caught in at least 5% of tows in a year across 3/4th of the survey years in each region (see Appendix II for complete list of retained species and Appendix III for excluded species). Lastly, the dataset is expanded to include zeros for when a species that is found in the region is not caught in a particular trawl. The compiled, filtered, trimmed and zero expanded dataset is then sent through a Python script to provide the spatial distribution products described in the following sections.

4. Bubble Plot

Each raw observation of wtcpue for a species from the compiled dataset is provided and can be plotted as a circle on the map, where the circle size is proportional to the wtcpue (kg per ha).

5. Interpolated Biomass Distributions

The distribution surface is generated by using the inverse distance weighting (IDW) interpolation method in a Python script. The IDW approach is used as it is a simple, relatively easy approach to apply across the large number of species collected in the surveys. The approach makes it possible to predict and interpolate unobserved densities at any location in the survey area. For this approach the wtcpue data from the compiled dataset described in section 2.1 is cube-root transformed prior to interpolation, and transformed back to original units (cubed back to kg/ha (wtcpue) values) for all further analysis described below. However, the raster displayed on the map is the cubed root values for improved visualization. Interpolation weights in IDW are computed as a function of the distance between observed sample sites and the site at which the prediction is to be made, with the weight being the inverse distance raised the the power of 2. The search radius used with IDW was 200,000 m (200 km), with 10 being the minimum and 15 being the maximum number of sampling sites included in the interpolation.

In addition to spatial weighting, the IDW approach used here includes temporal weighting. A five year window of data is used, with data from the mapped year having the highest weight in the interpolation and data from 2 years prior to and after the mapped year having much lower weights. This weighting is determined as follows:

$$\text{YearWeights}=3-(\text{abs}(\text{Tc}-\text{Ti}))$$

where Tc is the year being mapped Ti is the year of the samples. This year weighting is then applied to the weighting scheme by multiplying the year weighting by the distance weighting in the mapping. Note for surveys that don't sample annually (e.g. West Coast Tri-annual, Aleutian islands, Gulf of Alaska) this weighting results in the use of only the data for the year being mapped, as the other years are further than 2 years out on either side of the year being mapped so are given a weight of zero. The interpolation is carried out using a 2km x 2km grid cell size for the bottom trawl survey data and a 500m x 500m grid cell size for the BFISH survey. The interpolation boundaries were either provided by regional survey subject matter experts, or when not available, were determined by examination of the full survey footprint and the available observations from the trimmed dataset (e.g. in some regions the full survey footprint is trimmed to account for the removal of certain strata from the dataset due to poor temporal coverage in those strata). It is important to note that the choices of weighting, transformation, and pixel cell size, can have significant impacts on the resulting interpolation surfaces.

6. Single Species Distribution Metrics

6.1. Latitudinal center of gravity

The latitudinal center of gravity is the center of a population's distribution as indicated by the average latitude weighted by the biomass at each latitude within the survey domain. It is the geographic center of the total weight of the entire population. This metric is calculated using a Python script after the interpolated distribution surface is generated. The latitudinal center of gravity is the mean latitude of the species distribution, where each raster cell latitude is weighted by the value of wtcpue for that cell. This is shown in the formula below:

$$\text{COG}_{\text{year}} = \frac{\sum_{i=1}^k (d_i \times t_i)}{\sum_{i=1}^k t_i}$$

where d_i is a value of latitude associated with a raster (estimation) grid cell i . t_i denotes predicted (interpolated) wtcpue value at each raster (estimation) grid i . k is the total number of estimation grid cells in the study area. The result is one COG value for each year in the time series, for each species.

6.2. Range Limits

The species range limits are the geographic boundary beyond which a species does not occur. This can also be thought of as a measure of the location of the leading and trailing edges of a species' range. This metric is calculated based on the interpolated biomass raster layers. The min latitude (southern range limit) is the latitude where 95% of the species distribution/biomass (or latitudes where wtcpue >0) are north or this value (so it's the 5th percentile), and the max latitude (northern range limit) is the lat where 95% of the species biomass is south of (below) this latitude.

6.3. Depth center of gravity

This metric is similar to the latitudinal center of gravity, but instead of being the average latitude weighted by biomass, it is the average depth weighted by biomass. This metric is calculated in Python after the interpolated distribution surface is generated. It is the mean depth where each raster cell depth, taken from bathymetry values within each 2 km grid cell, is weighted by the value of wtcpue for that cell, and follows the same formulation as Lat COG, but the di value is the depth of the grid cell, instead of lat. The result is one depth value for each year in the time series, for each species. Bathymetry data was obtained for the Aelution Islands, Eastern Bering Sea, and the Gulf of Alaska from the Alaska Fisheries Science Center, for BFISH from the Pacific Islands Fisheries Science Center for the BFISH data, and for the remaining regions from GEBCO (GEBCO 2021).

6.4. Area Analysis

This analysis is conducted based on the interpolated distribution surface layers, and is done in real-time based on user selected species and either selected or drawn area of interest. Two area analysis are calculated as:

- a. the proportion of the selected area where the species is present (i.e., wtcpue > 0 (or some other threshold?). Area of grid cells within selected area where wtcpue>0 divided by total area of selected area (in km²).

$$= A_{\text{area,species}}/A_{\text{area}}$$

- b. the proportion of the species biomass distribution found in (or covered by) the area of interest. This is calculated by summing the biomass for grid cells found within the area of interest, and dividing by the total biomass of the species in each year.

$$= \text{Biomass}_{\text{area,species}}/\text{Biomass}_{\text{species}}$$

7. Regional Summary Products

7.1. Species Richness Maps

Species richness maps are calculated for each region separately, and display the number of species present in each raster cell within a given region's survey domain. These maps are calculated by stacking each individual species' IDW biomass raster layers and counting the total number of species present in each cell. A species is considered present in a cell if the wtcpue > 0. It's important to note that these maps provide the predicted species richness, or number of species expected to encounter in the trawl survey at a given location, and do not reflect the species richness for the ecosystem as a whole.

7.2. Distribution Metric Regional Averages

For each region the average change in center of biomass is calculated (in terms of both Latitude and Depth) of a core set of species, defined as species that are caught every year in the survey. This is done by calculating the 'offset' or difference between each year's center of gravity and that of the starting year. Thus the first year is standardized to zero and all other years are calculated as the difference from that starting year. The annual average of these individual species offsets is then calculated for the core set of species in each region, and then plotted on a time-series graph to enable evaluation of the overall change in center of biomass of species for a given region.

FUTURE DIRECTIONS

8. Additional data types

This first release focuses on fisheries-independent survey data in the US, but future iterations of the portal will seek to include additional survey data and model outputs both within the US regions and Canada. We will build off existing partnerships between the Ocean Adapt team and Canadian researchers in the Department of Fish and Oceanography (DFO) to explore ways to incorporate Canadian survey data and models into the portal. In addition to expanding the surveys covered in this portal, we will also be exploring ways to bring in results of environmentally-linked species distribution models for display within the portal. Incorporating these model outputs not only will serve to improve access to and sharing of model code and results, but will also enable us to present predicted future shifts in distributions.

Our goal with working to incorporate these additional data sources and types is to help advance a community of practice among researchers and managers from around the U.S. and internationally who deal with the issue of shifting species distributions.

9. Additional functionality

9.1. Multispecies overlap analysis

We expect species interactions and community composition to change along with climate-driven distribution shifts in individual species (Santora et al. 2017, Pinsky et al. 2020). These changes in species interactions can lead to changes in the productivity of predators and prey. For example, the expansion of Atlantic cod into Arctic waters resulted in increased overlap with its prey which enabled greater reproductive potential and higher biomass of cod (Howell and Filin 2014). However, in the case of walleye pollock, increased overlap with a key predator, arrowtooth flounder, resulted in higher mortality of juvenile walleye pollock (Hunsicker et al. 2013). Therefore, enabling multispecies analysis and exploration of changes in species overlap and interactions is important, as species are unlikely to shift their distributions in isolation. Future iterations of the portal will enable users to explore species interactions, such as area or range overlap, within an area of interest and evaluate how those interactions have or may change over time.

9.2. Species shifts & human interactions

As species distributions shift, target species biomass may become less available to ports that have historically targeted a species, and more available to others. Changes in species distribution can also exacerbate or mitigate the effects of regional stock declines (or increases) for specific ports (Selden et al. 2019). To allow users to examine how shifting species distributions will alter availability to focal ports, a future module will be developed to allow users to choose a target species, a port of interest, and a specified radius from port. The analysis will then calculate the sum of the predicted biomass within the radius of the selected port as a metric of availability to port. Users will be able to examine how availability to ports has changed or is projected to change under future conditions for different ports.

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APPENDIX I: REMOVED HIGHER LEVEL TAXON

Scientific name	Common
Henricia	NA
Paguridae	Hermit crabs
Porifera	Sponges
Scyphozoa	Jellyfishes
Stelletta	NA
Careproctus	NA
Hyas	NA
Actiniaria	Sea anemones
Calcigorgia	NA
Holothuroidea	Sea cucumbers
Tethya	NA
Argis	NA
Decapodiformes	NA
Myctophidae	Lanternfishes
Octopodidae	NA
Stylatula	NA
Nudibranchia	Sea slugs
Virgulariidae	NA
Thaliacea	NA
Beringius	True whelks
Neptunea	True whelks
Ascidacea	Sea squirts
Bryozoa	Moss animals
Aplidium	Sea pork
Hydroidolina	NA
Callogorgia	NA
Thouarella	NA
Bonneviella	NA
Gorgonacea	Gorgonian corals
Ophiolebes	NA
Ophioscolex	NA
Plumarella	NA
Rhabdocalyptus	NA
Bathylagidae	Deep sea smelts
Hirudinea	Leeches
Leptasterias	NA
Colus	NA
Eumicrotremus	NA
Pteraster	Slime stars
Buccinum	True whelks
Lycodes	NA

Volutopsius	NA
Muriceides	NA
Solaster	NA
Stylaster	NA
Crangon	NA
Ceramaster	NA
Liparidae	Snailfishes
Zoarcidae	Eelpouts
Mytilidae	NA
Polychaeta	Bristle worms
Anthomastus	NA
Caryophyllia	Cupcorals
Octocorallia	Octocorals
Arthrogorgia	NA
Ophidiidae	Cusk eels
Thoracica	True barnacles
Mediaster	NA
Cucumaria	NA
Gastropoda	NA
Hippasteria	NA
Isopoda	Pillbugs slaters, and woodlice
Ophiacantha	NA
Polynoidae	Scaleworms
Odontohenricia	NA
Ophiuroidea	Brittle stars
Bathylotes	NA
Metridium	NA
Stomphia	NA
Stenobranchius	NA
Rajiformes	NA
Asteroidea	Star fishes
Diaphus	NA
Hexactinellida	Glass sponges
Gastropoda	Sea snails
Polyplacophora	Chitons
Pycnogonida	Sea spiders
Errinopora	NA
Ammodytes	NA
Distichopora	NA
Ctenophora	Comb jellies
Cyclopteridae	Lumpfishes
Halocynthia	NA
Anteliaster	NA
Bathymasteridae	Ronquils

Sclerocrangon	NA
Paragorgia	NA
Psolus	NA
Myoxocephalus	Stellate sculpin
Chlamys	NA
Balanus	NA
Icelus	NA
Primnoa	NA
Pennatulioidea	Sea pens
Pandalus	NA
Florometra	NA
Pagurus	NA
Sebastes	Rockfish
Clinocardium	NA
Elassochirus	NA
Aphrodita	Sea mice
Pododesmus	NA
Velutina	NA
Naticidae	Moon snails
Nereididae	Ragworms
Leptychaster	NA
Lebbeus	NA
Lithodes	NA
Ophiopholis	NA
Stylasterias	NA
Tritonia	NA
Chirolophis	NA
Platyhelminthes	Flatworms
Decapodiforms	NA
Euplexaura	NA
Melanostomiinae	NA
Alcyonium	NA
Eunoe	NA
Actinostolidae	NA
Bivalvia	Bivalves
Notostomum	NA
Crossaster	NA
Dorididae	NA
Aurelia	Moon jellyfishes
Lepidozona	NA
Hydrozoa	Hydroids
Periphylla	NA
Macoma	NA
Lamellaria	NA

Heteropolypus	NA
Suberites	NA
Amphipoda	Amphipods
Chiasmodontidae	Snaketooth fishes
Macrouridae	Grenadiers
Mysida	Mysid shrimps
Leuroglossus	NA
Sipuncula	Peanut worms
Nemertea	Ribbon worms
Lithodidae	Stone crabs and king crabs
Octopus	NA
Zoanthidae	NA
Strongylocentrotus	NA
Lampanyctus	NA
Protomyctophum	NA
Molpadia	NA
Pachastrellidae	NA
Dendronotus	NA
Echinacea	Sea urchins
Cirripedia	Barnacles
Liparis	Snailfishes
Natica	NA
Anomiidae	Jingle shells
Scleractinia	Hard corals
Triglops	NA
Pectinidae	Scallops
Boreotrophon	NA
Alcyonacea	Soft corals
Rajidae	Skates
Dentalium	NA
Cottidae	Sculpins
Sebastolobus	NA
Mollusca	Molluscs
Stichaeidae	Pricklebacks
Crangonidae	Crangonid shrimp
Psychrolutes	NA
Pandalidae	Pandalid shrimps
Chauliodontinae	NA
Virgularia	NA
Pseudarchaster	NA
Agonidae	Alligatorfishes
Hexagrammidae	Greenlings
Aphroditidae	Sea mice
Ctenodiscus	NA

Raja	Skates
Neoberingius	NA
Melamphaidae	Bigscale fishes
Lophaster	NA
Placiphorella	NA
Boltenia	NA
Molgula	NA
Chirostylus	NA
Gersemia	NA
Synoicum	NA
Malacocottus	NA
Astrochele	NA
Pedicellaster	NA
Hippolytidae	Humpback prawns
Paraliparis	NA
Chionoecetes hybrid	NA
Bathylagus	NA
Hapalogaster	NA
Nematoda	Roundworms
Lycenchelys	Slipskin
Ascidia	Sea squirt
Majidae	Spider crabs
Yoldia	NA
Bothrocarra	NA
Keratoisis	NA
Synallactes	NA
Annelida	Segmented worms
Lycodapus	NA
Polycladida	NA
Mytilus	NA
Chlamylla	NA
Beroe	NA
Cardita	NA
Citharichthys	NA
Euphausiacea	Krill
Halichondria	NA
Chrysaora	Sea nettles
Craniella	NA
Petromyzontidae	Lampreys
Stylasteridae	Lace corals
Actinostola	NA
Colossendeis	NA
Arctomelon	NA
Mycale	NA

Gonatopsis	NA
Aleutiaster	NA
Cranchiidae	Glass squids
Fusitriton	NA
Brachiopoda	Lamp shells
Eualus	NA
Sabellidae	Fanworms
Alepocephalidae	Slickheads
Ceratiidae	Seadevils
Evasterias	NA
Swiftia	NA
Gonatus	NA
Hormathiidae	NA
Bryozoichthys	NA
Orthasterias	NA
Livoneca	NA
Neomenia	NA
Cancer	Cancer crab
Caprella	NA
Leptochiton	NA
Scalpellum	NA
Crypthelia	NA
Sertulariidae	NA
Gonostomatidae	Bristlemouths
Campanulariidae	NA
Gammaridae	NA
Plumulariidae	NA
Atolla	NA
Cyanea	NA
Phacellophora	NA
Serripes	NA
Cyclohelix	NA
Asteronyx	NA
Lethotremus	NA
Japelion	NA
Aequorea	NA
Muricidae	Murex snails
Clavularia	NA
Pugettia	NA
Styela	NA
Isodictya	NA
Opisthoproctidae	Barreleyes
Arcturidae	NA
Musculus	NA

Odontaster	NA
Cheiraster	NA
Staurocalyptus	NA
Geodia	NA
Aglaophenia	Feather hydroids
Zoanthus	NA
Sergestidae	Sergestid shrimps
Polymastia	NA
Chaetopterus	NA
Alcyonidium	NA
Panomya	NA
Abietinaria	NA
Dendrobeania	NA
Allocareproctus	NA
Emplectonema	NA
Actinoscyphia	NA
Arcturus	NA
Gymnelus	NA
Osmeridae	Smelts
Javania	NA
Echiura	Spoon worms
Leucandra	NA
Oceanactis	NA
Distaplia	NA
Nannobrachium	NA
Axinella	NA
Stylocordyla	NA
Tubulipora	NA
Serpulidae	Calcareous tubeworms
Penaeidae	Penaeid shrimps
Cladaster	NA
Scopelosaurus	NA
Latrunculia (Latrunculia)	NA
Cyclocardia	NA
Astarte	NA
Idoteidae	NA
Celleporina	NA
Serpula	NA
Actiniidae	NA
Thyonidium	NA
Isidella	NA
Notostomus	NA
Spirontocaris	NA
Cryptonatica	NA

Caryophylliidae	Cupcorals
Icelinus	NA
Hiatella	NA
Asbestopluma	NA
Diaulula	NA
Amphiodia	NA
Diplopteraster	NA
Idmidronea	NA
Margarites	Margarite snails
Cnidaria	Jellyfish and alike
Parastenella	NA
Microporina	NA
Pseudostichopus	NA
Vulcanella	NA
Onchidiopsis	NA
Chaetognatha	Arrow worms
Dipsacaster	NA
Oregonia	NA
Echinoclathria	NA
Leptagonus	NA
Demospongiae	Horny sponges
Gymnocanthus	NA
Ophiuridae	NA
Hippodiplosia	NA
Volutomitra	NA
Anthozoa	Sea anemones and corals
Cephalopoda	Squids octopuses, nautilus, and ammonites
Pyrulofusus	NA
Bathyagonus	NA
Tarletonbeania	NA
Paralomis	NA
Chorilia	NA
Paralepididae	Barracudinas
Benthoctopus	NA
Gorgonocephalus	NA
Protoptilum	NA
Haliclona	NA
Balticina	NA
Ophiura	NA
Acanthascus	NA
Antipatharia	Thorny corals
Parantipathes	NA
Umbellula	NA

Parastichopus	NA
Psolidae	NA
Ptilosarcus	NA
Chiridota	NA
Crepidula	NA
Luidia	NA
Cyclopecten	NA
Tubulanus	NA
Plicifusus	NA
Leucosolenia	Branching ball-sponge
Phakellia	NA
Nemichthyidae	Snipe eels
Phascolosomatidae	NA
Asteronychidae	NA
Fariometra	NA
Gephyreaster	NA
Nearchaster	NA
Cyclothone	NA
Urticina	NA
Aforia	NA
Plexauridae	NA
Neognathophausia	NA
Oneirodes	NA
Farrea	NA
Bugula	NA
Alaskagorgia	NA
Heteropora	NA
Antipathes	NA
Tedania (Tedania)	NA
Mysidae	NA
Tellina	NA
Oneirodidae	Dreamers
Porella	NA
Lethasterias	NA
Myriapora	NA
Doris	NA
Phorbas	NA
Gadidae	Cods and haddocks
Pennatulidae	NA
Hydractinia	NA
Polycheles	NA
Buccinidae	True whelks
Siliqua	NA
Nuculana	NA

Hemilepidotus	NA
Capulidae	Hairy snails
Mactromeris	NA
Euspira	NA
Priapulida	Priapulid worms
Asterias	NA
Artediellus	NA
Pleuronectiformes	Flatfish
Enophrys	NA
Hexagrammos	Greenlings
Lumpenus	NA
Nereis	NA
Carditidae	Cardita clams
Elassodiscus	NA
Mya	Gaper clams
Liomesus	NA
Platichthys stellatus x pleuronectes quadrituberculatus hybrid	NA
Pentamera	NA
Heptacarpus	NA
Tachyrhynchus	NA
Lamellariinae	NA
Oenopota	NA
Ancistrolepis	NA
Nephtyidae	Catworms
Hemithyrididae	NA
Teredinidae	Shipworms
Cribrinopsis	NA
Amphiuridae	NA
Maldanidae	Bamboo worms
Antiplanes	NA
Nucula	Nut clams
Solariella	NA
Calliostoma	NA
Calyptraeidae	Slipper limpets
Corallimorphus	NA
Trochidae	Top shells
Iphinoe	NA
Podothecus	NA
Oncorhynchus	NA
Nautichthys	NA
Pasiphaeidae	NA
Trachypeneus	Trachypeneid shrimps
Cynoscion	NA

Solenocera	NA
Gymnothorax	NA
Halieutichthys	NA
Aplysia	Sea hares
Caretta caretta	Loggerhead turtle
Molpida	NA
Aplysiidae	NA
Bothus	NA
Opsanus	Toadfish
Trichiuridae	NA
Diplectrum	NA
Cryptomonadaceae	NA
Cypraeidae	NA
Ellisella	NA
Gorgonidae	NA
Murex	Murex snails
Ophiothrix	NA
Parthenope	NA
Parapenaeus	NA
Prionotus	NA
Calliactis	NA
Etropus	NA
Paralichthys	Flounders
Syacium	NA
Caranx	NA
Antennarius	NA
Clypeaster	NA
Conus	Cone snails
Decodon	NA
Synodus	NA
Apogon	NA
Cyclopsetta	NA
Lepophidium	NA
Seriola	NA
Ophichthus	NA
Bothidae	Lefteye flounders
Porcellana	NA
Chicoreus	NA
Porcellanidae	Porcelain crabs
Decapoda	Ten footed
Portunidae	Swimming crabs
Echinaster	NA
Menippe	NA
Sphoeroides	NA

Laevicardium	NA
Tunicata	Sea squirts
Munida	NA
Spongiidae	NA
Cirripathes	NA
Glypturus	NA
Poriferencoth	NA
Chiton	NA
Mustelus	NA
Poriferball	NA
Poriferfinbra	NA
Pyrosoma	NA
Salpa	NA
Paralichthyidae	Large tooth flounders
Euvola	NA
Coralliidae	NA
Echinodermata	Echinoderms
Pagrus	NA
Scorpaenidae	Scorpionfishes rockfishes
Porifervastub	NA
Urophycis	NA
Gorgonia	Sea fans
Stenocionops	NA
Aequipten	NA
Palicus	NA
Sicyonia	NA
Amphinomidae	NA
Scorpaena	NA
Squilla	NA
Poriferbarrel	NA
Blenniidae	Combtooth blennies
Pseudoplexaura	NA
Sardinella	NA
Atrina	NA
Pteriidae	NA
Bathophilus	NA
Paraconger	NA
Exocoetidae	Flyingfishes
Crinoidea	Sea lilies and feather stars
Gobiidae	Gobies
Alpheus	NA
Bregmaceros	NA
Phaeophyceae	NA
Cucumariidae	NA

Solenoceridae	NA
Macrocoeloma	NA
Xanthidae	Mud crabs
Pitar	NA
Cynoglossidae	Tonguefishes
Petrolisthes	NA
Apogonidae	Cardinalfishes
Caridea	Shrimps
Parthenopidae	Elbow crabs
Mithrax	NA
Megalobrachium	NA
Paguristes	NA
Scyllarides	NA
Ophidion	Cusk eels
Antipathidae	NA
Ophiolepididae	NA
Palicidae	Stilt crabs
Gorgonellidae	NA
Podochela	NA
Busycon	True whelks
Echinoidea	Sea urchins
Mugil	NA
Hoplunnis	NA
Carangidae	Jacks and pompanos
Melongenidae	NA
Stenopus	NA
Tagelus	NA
Crustacea	Crustaceans
Perciformes	NA
Chloeia	NA
Engraulidae	Anchovies
Elysia	NA
Calamus	NA
Pomacanthidae	NA
Haemulon	NA
Cerithium	NA
Mullidae	NA
Rhodophyceae	NA
Cheilopogon	NA
Lepidophanes	NA
Rimapenaeus sp.	NA
Ranilia	NA
Plesionika	NA
Nephropsis	NA

Polystira	NA
Synodontidae	NA
Syngnathus	NA
Ophiolepis	NA
Paguroidea	NA
Xanthoidea	NA
Clupeidae	Herrings menhadens, sardins, shads
Pinnidae	NA
Alpheidae	Snapping shrimps
Pennatula	NA
Rhynchoconger	NA
Sphyaena	NA
Anchoa spp.	Anchovies
Symphurus	NA
Chilomycterus	NA
Dromiidae	Sponge crabs
Opistognathus	NA
Holothuria	NA
Aluterus	NA
Aequoreidae	NA
Pecten	NA
Lolliguncula	NA
Squillidae	NA
Narcine	NA
Ariomma	NA
Pleurobranchaea	NA
Ircinia	NA
Ophioderma	NA
Polyceridae	NA
Turbinidae	NA
Pinctada	NA
Scyllarus	NA
Ethusa	NA
Styelidae	NA
Astropecten	NA
Actinia	NA
Cantharus	NA
Eunicidae	NA
Harengula	NA
Isostichopus	NA
Stichopodidae	NA
Lysmata	NA
Pachycheles	NA
Terebellidae	NA

Distorsio	NA
Centropristis	NA
Stomatopoda	Mantis shrimp
Hyleurochilus	NA
Ophiothricidae	NA
Synalpheus	NA
Dendrodoris	NA
Hypselodoris	NA
Cancellaridae	NA
Gorgonocephalidae	Basket stars
Phaeoptyx	NA
Cladocora	NA
Serranidae	Seabasses (groupers and fairy basslets)
Periclimenes	NA
Brissidae	NA
Processa	NA
Manucomplanus	NA
Prognichthys	NA
Felimare	NA
Cidaridae	NA
Diogenidae	NA
Gonodactylidae	NA
Aega	NA
Phyllonotus	NA
Nodipecten	NA
Cassidae	NA
Hypoplectrus	NA
Hesionidae	NA
Cerodrillia	NA
Fasciolaria	NA
Ficus	NA
Leucosiidae	NA
Stenorhynchus	NA
Chione	NA
Crassatellidae	NA
Lytechinus	NA
Pilumnus	NA
Fusinus	NA
Goniasteridae	NA
Loliginidae	NA
Ophiomyxidae	NA
Calappa	NA
Hypoconcha	NA
Papyridea	NA

Mellita	NA
Cymatium	NA
Axiopsis	NA
Goneplax	NA
Ophiactis	NA
Cassis	NA
Lophius	NA
Parexocoetus	NA
Ophiomyxa	NA
Pinnotheridae	NA
Calappidae	NA
Limaria	NA
Cyphoma	NA
Asciidiidae	NA
Lagocephalus	NA
Phimochirus	NA
Lithophaga	NA
Pleurobranchus	NA
Tethyaster	NA
Pleurobrachidae	NA
Echeneis	NA
Spondylus	NA
Stichopus	NA
Helix	NA
Diapterus	NA
Eucidaris	NA
Pterois	NA
Vokesimurex cabritii	Cabrit murex
Gobioidei	NA
Euryalidae	NA
Canthigaster	NA
Brevoortia	NA
Choristodon	NA
Mullus	NA
Callechelys	NA
Raninoides	NA
Donatiidae	NA
Holacanthus	NA
Cerianthidae	NA
Sargassum	NA
Diadematidae	NA
Euryalina	NA
Pitho	NA
Discodoris	NA

Actaea	NA
Gillellus	NA
Umbellulidae	NA
Linckia nodosa	NA
Pleurobranchidae	NA
Ophichthidae	Snake eels
Trochus	NA
Inachidae	NA
Portunus	NA
Dendronotidae	NA
Bursatella	NA
Cymothoidae	NA
Metapenaeopsis	NA
Axiidae	NA
Anaspidea	NA
Nereidae	NA
Sipunculidae	NA
Saurida	NA
Leptogorgia	NA
Goneplacidae	Angular crabs
Dardanus	NA
Leptochela	NA
Processidae	NA
Arthropoda	NA
Scaphella	NA
Muraenidae	NA
Muricea	NA
Nettastomatidae	NA
Asteroporpa	NA
Xenophora	NA
Ophidiasteridae	NA
Ovalipes	NA
Pinnixa	NA
Libinia spp.	Spider crabs
Leptodius	NA
Pareques	NA
Homolidae	NA
Comactinia	NA
Xyrichtys	NA
Corbulidae	NA
Acmaea	NA
Iridopagurus	NA
Renillidae	NA
Arca	NA

Fissurellidae	NA
Chionoecetes	NA
Lopholithodes	NA
Scombridae	Mackerels, tuna, bonitos
Brisaster	NA
Cryptolithodes	NA
Argentinidae	NA
Anomura	NA
Neomeniomorpha	NA
Argyropelecus	NA
Salmonidae	NA
Terebratulina	NA
Hinnites	NA
Acoelida	NA
Gonatidae	NA
Lillipathes	NA
Phyllolithodes	NA
Spinther	NA
Hymenaster	NA
Galatheidae	NA
Actinernus	NA
Chiroteuthis	NA
Bolinopsis	NA
Glycera	Glycerine worm
Tonicella	NA
Benthalbella	NA
Histioteuthis	NA
Bathypathes	NA
Acteocina	NA
Sergestes	NA
Pycnogonum	NA
Acantholithodes	NA
Pisaster	NA
Limatula	NA
Malacosteinae	NA
Isididae	NA
Paralithodes	NA
Hyalonema	NA
Brisingidae	NA
Metacrangon	NA
Sternoptychidae	NA
Selachii	NA
Lepas	Goose barnacles
Scabrotrophon	NA

Asteriidae	NA
Pleuronectidae	NA
Glycymeris	Bittersweet clams
Gerreidae	NA
Uranoscopidae	NA
Sciaenidae	NA
Haemulidae	NA
Tetraodontidae	Puffers
Triglidae	NA
Chlorophthalmus	NA
Chlorophthalmidae	Greeneyes
Ogcocephalidae	Batfishes
Echiophis	NA
Anguilliformes	NA
Stomiidae	NA
Crustacea shrimp	Crustacean shrimp
Congridae	NA
Cancridae	NA
Merluccius	NA
Sparidae	Porgies
Stelleroidea	NA
Clypeasteroidea	Sea biscuits
Syngnathidae	Pipefishes and seahorses
Chaetodontidae	NA
Octopoda	Octopuses
Balistidae	NA
Penaeus	NA
Moridae	NA
Lutjanidae	Snappers
Sepiolidae	NA
Caproidae	NA
Stromateidae	NA
Squalidae	NA
Fistularia	NA
Selachimorpha	NA
Labridae	NA
Alepocephaliidae	NA
Atherinidae	NA
Carcharhinidae	Requiem sharks
Lophiiformes	NA
Stenotomus spp.	Porgies
Strongylura spp.	Needlefishes
Callinectes	NA
Scomberomorus	NA

Myxinidae	Hagfishes
Eptatretus	NA
Sternoptyx	NA
Scotoplanes	Sea pigs
Aplacophora	NA
Callianassa	NA
Lophogastrida	Opossum shrimps
Hexactinosida	Sponge
Carinariidae	NA
Munidopsis	Squat lobsters
Terebratellacea	Brachiopod
Antedonidae	NA
Teuthida	NA
Brachyura	NA
Rossellinae	Sea sponge
Embiotocidae	NA
Ostreoida	NA
Invertebrata	Invertebrate
Lepeta	NA
Amphaster	NA
Zoroasteridae	NA
Scyliorhinidae	NA
Rhinobatidae	NA
Amphiophiura	NA
Platyroctidae	Tubeshoulders
Hymenodiscus	NA
Polinices	NA
Triakidae	NA
Synallactidae	NA
Anoplogastridae	NA
Vesicomidae	NA
Apristurus	NA
Acanthephyra	NA
Gymnolaemata	NA
Graneledone	NA
Sicyonis	NA
Zoroaster	NA
Calocarides	NA
Saccopharyngidae	NA
Venefica	NA
Neoscopelidae	NA
Flabellidae	NA
Solemya	NA
Spatangoida	NA

Megasurcula	NA
Acanthogorgiidae	NA
Cataetyx	NA
Serrivomeridae	NA
Rhinoliparis	NA
Ophiurida	NA
Galatheoidea	NA
Chrysopathes	NA
Myliobatidae	NA
Gonostoma	NA
Stomiiformes	NA
Exilioidea	NA
Torpedinidae	Electric rays
Nematocarcinus	NA
Batrachoididae	Toadfishes
Onychoteuthidae	NA
Maulisia	NA
Anthoathecata	NA
Dasyatidae	Sting rays
Cnemidocarpa	NA
Alepocephalus	NA
Dolichopteryx	Winged spookfish
Bolitaeninae	NA
Centrolophidae	Medusafishes
Serrivomer	NA
Anthoptilum	NA
Glyphocrangonidae	Armored shrimps
Cryptacanthodidae	Wrymouths
Hydrolagus	NA
Zaniolepidinae	NA
Malacanthidae	Tilefishes
Melanonidae	NA
Leptocephalus	Eel larvae
Trachipteridae	Ribbonfishes
Saccopharynx	NA
Chondrichthyes	NA
Phoronida	Horseshoe worm
Rondeletiidae	Redmouth whalefishes
Yoldiella	NA
Nephtheidae	NA
Heterodontidae	Bullhead sharks
Squatinae	Angel sharks
Scopelarchidae	Pearleyes
Astronesthinae	NA

Caristiidae	Manefishes
Arhynchobatidae	NA
Physiculus	NA
Coryphaenoides	NA
Scomberesocidae	Sauries
Alepisauridae	NA
Ammodytidae	NA
Cyclopterinae	NA
Porifera (segregated 1)	NA
Porifera (segregated 2)	NA
Vase sponge	NA
White claypipe sponge	NA
Hemisquillidae	NA
Eurypharyngidae	Gulpers
Tetragonuridae	Squaretails
Neon yellow vase sponge	NA
Fluffy sponge	NA
Orange encrusting sponge	NA
Sebastes	NA
Scleralcyonacea	NA
Porichthys	NA
Ommastrephidae	NA
Antipatheria	NA
Benthopectinidae	NA

**APPENDIX II: LIST OF THE 439 UNIQUE SPECIES RETAINED AND PRESENTED
ON DISMAP**

spp	common
<i>Acantholumpenus mackayi</i>	Pighead prickleback
<i>Acanthostracion quadricornis</i>	Scrawled cowfish
<i>Achelous gibbesii</i>	Iridescent swimming crab
<i>Achelous spinicarpus</i>	Longspine swimming crab
<i>Achelous spinimanus</i>	Blotched swimming crab
<i>Actinauge verrillii</i>	Reticulate anemone
<i>Actinostola faeculenta</i>	Hobnail vase anemone
<i>Albatrossia pectoralis</i>	Giant grenadier
<i>Alepocephalus tenebrosus</i>	California slickhead
<i>Alosa aestivalis</i>	Blueback herring
<i>Alosa pseudoharengus</i>	Alewife
<i>Alosa sapidissima</i>	American shad
<i>Aluterus schoepfii</i>	Orange filefish
<i>Amblyraja radiata</i>	Thorny skate
<i>Amusium papyraceum</i>	Paper scallop
<i>Anarhichas lupus</i>	Atlantic wolffish
<i>Anasimus latus</i>	Stilt spider crab
<i>Anchoa hepsetus</i>	Striped anchovy
<i>Ancylosetta quadrocellata</i>	Ocellated flounder
<i>Anoplopoma fimbria</i>	Sablefish
<i>Anthoptilum grandiflorum</i>	Feather boa sea pen
<i>Antimora microlepis</i>	Finescale mora
<i>Aphrocallistes vastus</i>	Cloud sponge
<i>Apostichopus californicus</i>	Giant california sea cucumber
<i>Apostichopus leukothele</i>	White-knobbed sea cucumber
<i>Apristurus brunneus</i>	Brown catshark
<i>Arenaeus cribrarius</i>	Speckled swimming crab
<i>Ariopsis felis</i>	Hardhead catfish
<i>Aspidophoroides olrikii</i>	Arctic alligatorfish
<i>Asterias amurensis</i>	North pacific seastar
<i>Astropecten cingulatus</i>	NA
<i>Astropecten duplicatus</i>	Two-spined star fish
<i>Atheresthes stomias</i>	Arrowtooth flounder
<i>Atheresthes stomias</i> and <i>A. evermanni</i>	Arrowtooth and kamchatka flounders
<i>Axinella blanca</i>	NA
<i>Bairdiella chrysoura</i>	Silver perch
<i>Balistes capriscus</i>	Gray triggerfish
<i>Bathybembix bairdii</i>	NA
<i>Bathymaster signatus</i>	Searcher
<i>Bathyraja</i> spp.	Skate complex

Bellator militaris	Horned searobin
Beringraja binoculata	Big skate
Beringraja inornata	California skate
Beringraja rhina	Longnose skate
Berryteuthis magister	Magister armhook squid
Boltenia ovifera	Stalked sea squirt
Boreogadus saida	Arctic cod
Bothrocarra brunneum	Twoline eelpout
Brevoortia tyrannus	Atlantic menhaden
Brisaster latifrons	Northern heart urchin
Buccinum angulosum	Angular whelk
Buccinum polare	Polar whelk
Buccinum scalariforme	Ladder whelk
Calamus proridens	Littlehead porgy
Calappa sulcata	Yellow box crab
Callinectes ornatus	Shelling crab
Callinectes sapidus	Blue crab
Callinectes similis	Lesser blue crab
Callogorgia compressa	NA
Cancer borealis	Jonah crab
Cancer irroratus	Atlantic rock crab
Caranx crysos	Blue runner
Careproctus melanurus	Blacktail snailfish
Centropristis ocyurus	Bank sea bass
Centropristis philadelphica	Rock sea bass
Centropristis striata	Black sea bass
Chaceon quinquedens	Red deepsea crab
Chaetodipterus faber	Atlantic spadefish
Chaetodon ocellatus	Spotfin butterflyfish
Chauliodus macouni	Pacific viperfish
Cheiraster (Luidiaster) dawsoni	NA
Chilomycterus schoepfii	Striped burrfish
Chionoecetes bairdi	Tanner crab
Chionoecetes opilio	Snow crab
Chionoecetes tanneri	Grooved tanner crab
Chloroscombrus chrysurus	Atlantic bumper
Chorilia longipes	Longhorn decorator crab
Chrysaora melanaster	NA
Chrysaora quinquecirrha	Sea nettle
Citharichthys arctifrons	Gulf stream flounder
Citharichthys macrops	Spotted whiff
Citharichthys sordidus	Pacific sanddab
Citharichthys spilopterus	Bay whiff
Clinopegma magnum	Helmet whelk

<i>Clupea harengus</i>	Atlantic herring
<i>Clupea pallasii</i>	Pacific herring
<i>Coryphaenoides acrolepis</i>	Pacific grenadier
<i>Crossaster borealis</i>	Grooved sun star
<i>Crossaster papposus</i>	Common sunstar
<i>Ctenodiscus crispatus</i>	Mud star
<i>Cucumaria fallax</i>	NA
<i>Cyanea capillata</i>	Lion's mane
<i>Cyclopsetta chittendeni</i>	Mexican flounder
<i>Cynoscion nothus</i>	Silver seatrout
<i>Cynoscion regalis</i>	Weakfish
<i>Dasycottus setiger</i>	Spinyhead sculpin
<i>Decapterus punctatus</i>	Round scad
<i>Diplectrum bivittatum</i>	Dwarf sand perch
<i>Diplectrum formosum</i>	Sand perch
<i>Diplopteraster multipes</i>	Pincushion star
<i>Dipturus laevis</i>	Barndoor skate
<i>Doryteuthis opalescens</i>	California market squid
<i>Doryteuthis pealeii</i>	Longfin inshore squid
<i>Doryteuthis pleii</i>	Slender inshore squid
<i>Echidnocerus foraminatus</i>	Brown box crab
<i>Elassochirus cavimanus</i>	Purple hermit
<i>Elassochirus tenuimanus</i>	Widehand hermit
<i>Eleginus gracilis</i>	Saffron cod
<i>Embassichthys bathybius</i>	Deep-sea sole
<i>Enophrys diceraus</i>	Antlered sculpin
<i>Enteroctopus dofleini</i>	North pacific giant octopus
<i>Eopsetta jordani</i>	Petrale sole
<i>Epinephelus morio</i>	Red grouper
<i>Eques lanceolatus</i>	Jackknife-fish
<i>Erimacrus isenbeckii</i>	Hair crab
<i>Etropus crossotus</i>	Fringed flounder
<i>Etropus cycloquamus</i>	Shelf flounder
<i>Eucidaris tribuloides</i>	Slate pencil urchin
<i>Eucinostomus spp.</i>	Mojarras
<i>Eumicrotremus orbis</i>	Pacific spiny lumpsucker
<i>Eunoe depressa</i>	Depressed scale worm
<i>Eunoe nodosa</i>	Giant scale worm
<i>Evasterias echinosoma</i>	NA
<i>Fusitriton oregonensis</i>	Oregon triton
<i>Gadus chalcogrammus</i>	Walleye pollock
<i>Gadus macrocephalus</i>	Pacific cod
<i>Gadus morhua</i>	Atlantic cod
<i>Genyonemus lineatus</i>	White croaker

Gibbesia neglecta	Lesser mantis shrimp
Glyptocephalus cynoglossus	Witch flounder
Glyptocephalus zachirus	Rex sole
Gorgonocephalus eucnemis	Basket star
Gymnocanthus galeatus	Armorhead sculpin
Gymnocanthus pistilliger	Threaded sculpin
Gymnothorax saxicola	Honeycomb moray
Gymnura micrura	Smooth butterfly ray
Haemulon aurolineatum	Tomtate grunt
Halieutichthys aculeatus	Pancake batfish
Halocynthia aurantium	Sea peach
Harengula jaguana	Scaled sardine
Hemilepidotus jordani	Yellow irish lord
Hemilepidotus papilio	Butterfly sculpin
Hemitripterus americanus	Sea raven
Hemitripterus bolini	Bigmouth sculpin
Hepatus epheliticus	Calico box crab
Heterozonias alternatus	Canonball sun star
Hexagrammos stelleri	Whitespotted greenling
Hippasteria californica	Californian spiny star
Hippasteria phrygiana	Arctic cushion star
Hippoglossina oblonga	American fourspot flounder
Hippoglossoides elassodon	Flathead sole
Hippoglossoides elassodon and H. robustus	Flathead sole-bering flounder
Hippoglossoides platessoides	American plaice
Hippoglossus hippoglossus	Atlantic halibut
Hippoglossus stenolepis	Pacific halibut
Histodermella kagigunensis	NA
Homarus americanus	American lobster
Hyas coarctatus	Arctic lyre crab
Hyas lyratus	Pacific lyre crab
Hydrolagus colliei	Spotted ratfish
Hypanus americanus	Southern stingray
Hypanus sabinus	Atlantic stingray
Hypanus say	Bluntnose stingray
Icelinus filamentosus	Threadfin sculpin
Icelus spiniger	Thorny sculpin
Illex illecebrosus	Northern shortfin squid
Isopsetta isolepis	Butter sole
Kathetostoma albigutta	Lancer stargazer
Labidochirus splendescens	Splendid hermit
Lagocephalus laevigatus	Smooth puffer
Lagodon rhomboides	Pinfish

Larimus fasciatus	Banded drum
Leiolambrus nitidus	White elbow crab
Leiostomus xanthurus	Spot
Lepidopsetta sp.	Rock soles
Lepophidium brevibarbe	Blackedge cusk-eel
Lepophidium profundorum	Fawn cusk-eel
Leptasterias (Hexasterias) polaris	Polar six-rayed star
Leptasterias arctica	Arctic star
Leptasterias groenlandica	Greenland star
Lethasterias nanimensis	Black spined sea star
Leucoraja erinacea	Little skate
Leucoraja garmani	Rosette skate
Leucoraja ocellata	Winter skate
Limanda aspera	Yellowfin sole
Limanda ferruginea	Yellowtail flounder
Limanda proboscidea	Longhead dab
Limanda sakhalinensis	Sakhalin sole
Limulus polyphemus	Horseshoe crab
Liparis gibbus	Variegated snailfish
Liponema brevicorne	Tentacle shedding anemone
Lithodes aequispinus	Golden king crab
Loligo spp.	Loligo squid
Lolliguncula brevis	Atlantic brief squid
Lophius americanus	Monkfish
Luidia clathrata	Lined sea star
Luidia foliolata	Gray sand star
Lumpenus fabricii	Slender eelblenny
Lutjanus campechanus	Red snapper
Lutjanus griseus	Gray snapper
Lutjanus synagris	Lane snapper
Lycenchelys crotalinus	Snakehead eelpout
Lycodes brevipes	Shortfin eelpout
Lycodes cortezianus	Bigfin eelpout
Lycodes diapterus	Black eelpout
Lycodes pacificus	Blackbelly eelpout
Lycodes palearis	Wattled eelpout
Lycodes raridens	Marbled eelpout
Lycodes turneri	Polar eelpout
Lyopsetta exilis	Slender sole
Mactromeris polynyma	Arctic surfclam
Malacocottus zonurus	Darkfin sculpin
Malacoraja senta	Smooth skate
Mallotus villosus	Capelin
Mediaster aequalis	Vermillion star

Melanogrammus aeglefinus	Haddock
Menticirrhus americanus	Southern kingfish
Menticirrhus littoralis	Gulf kingfish
Merluccius albidus	Offshore hake
Merluccius bilinearis	Silver hake
Merluccius productus	Pacific hake
Metacarcinus magister	Dungeness crab
Metapenaeopsis goodei	Caribbean velvet shrimp
Metridium farcimen	Giant plumose anemone
Microgadus proximus	Pacific tomcod
Micropogonias undulatus	Atlantic croaker
Microstomus pacificus	Dover sole
Molpadia intermedia	Sweet potato sea cucumber
Monacanthus ciliatus	Fringed filefish
Monanchora pulchra	NA
Mullus auratus	Red goatfish
Mustelus canis	Smooth dogfish
Mycale (Mycale) loveni	Loven's horny sponge
Myliobatis freminvillei	Bullnose eagle ray
Myoxocephalus jaok	Plain sculpin
Myoxocephalus octodecemspinosus	Longhorn sculpin
Myoxocephalus polyacanthocephalus	Great sculpin
Myoxocephalus scorpius	Shorthorn sculpin
Myxoderma platyacanthum	NA
Nearchaster aciculosus	Needle spined fragile star
Neptunea amianta	NA
Neptunea borealis	NA
Neptunea heros	Northern neptune whelk
Neptunea lyrata	Lyre whelk
Neptunea pribiloffensis	Pribilof whelk
Neptunea ventricosa	Fat whelk
Nezumia stelgidolepis	California grenadier
Ocella dodecaedron	Bering poacher
Octopoteuthis deletron	Octopus squid
Ogcocephalus declivirostris	Slantbrow batfish
Oncorhynchus tshawytscha	Chinook salmon
Ophidion holbrookii	Bank cusk-eel
Ophiodon elongatus	Lingcod
Ophiolepis elegans	Elegant brittle star
Ophiopholis aculeata	Daisy brittle star
Ophiura sarsii	Notched brittle star
Opisthonema oglinum	Atlantic thread herring
Opisthototeuthis californiana	Flapjack octopus
Oregonia gracilis	Graceful decorator crab

<i>Orthopristis chrysoptera</i>	Pigfish
<i>Osmerus mordax</i>	Rainbow smelt
<i>Ovalipes ocellatus</i>	Ocellate lady crab
<i>Ovalipes stephensoni</i>	Coarsehand lady crab
<i>Pagrus pagrus</i>	Red porgy
<i>Pagurus aleuticus</i>	Aleutian hermit
<i>Pagurus brandti</i>	Sponge hermit
<i>Pagurus capillatus</i>	Hairy hermit crab
<i>Pagurus ochotensis</i>	Alaskan hermit crab
<i>Pagurus pollicaris</i>	Gray hermit crab
<i>Pagurus rathbuni</i>	Longfinger hermit
<i>Pagurus trigonocheirus</i>	Fuzzy hermit
<i>Pallasina barbata</i>	Tube-nose poacher
<i>Pandalus borealis</i>	Atlantic northern shrimp
<i>Pandalus dispar</i>	Sidestripe shrimp
<i>Pandalus eous</i>	Northern shrimp
<i>Pandalus goniurus</i>	Humpy shrimp
<i>Pandalus jordani</i>	Ocean shrimp
<i>Pandalus platyceros</i>	Spot shrimp
<i>Pandalus tridens</i>	Yellowleg pandalid
<i>Paralichthys dentatus</i>	Summer flounder
<i>Paralichthys lethostigma</i>	Southern flounder
<i>Paralithodes camtschaticus</i>	Red king crab
<i>Paralithodes platypus</i>	Blue king crab
<i>Parmaturus xaniurus</i>	Filetail catshark
<i>Parophrys vetulus</i>	English sole
<i>Pasiphaea pacifica</i>	Pacific glass shrimp
<i>Pasiphaea tarda</i>	Crimson pasiphaeid
<i>Penaeus aztecus</i>	Brown shrimp
<i>Penaeus duorarum</i>	Pink shrimp
<i>Penaeus setiferus</i>	Northern white shrimp
<i>Peprilus burti</i>	Gulf butterfish
<i>Peprilus paru</i>	Harvestfish
<i>Peprilus triacanthus</i>	American butterfish
<i>Persephona mediterranea</i>	Mottled purse crab
<i>Phycis chesteri</i>	Longfin hake
<i>Pitarenus cordatus</i>	Corded pitar
<i>Placopecten magellanicus</i>	Atlantic sea scallop
<i>Platichthys stellatus</i>	Starry flounder
<i>Platylambrus granulatus</i>	Bladetooth elbow crab
<i>Platymera gaudichaudii</i>	Armed box crab
<i>Pleurobranchaea californica</i>	NA
<i>Pleurogrammus monopterygius</i>	Atka mackerel
<i>Pleuronectes quadrituberculatus</i>	Alaska plaice

<i>Pleuronichthys decurrens</i>	Curlfin sole
<i>Plicifusus kroyeri</i>	Arctic whelk
<i>Pododesmus macrochisma</i>	Green falsejingle
<i>Podothecus accipenserinus</i>	Sturgeon poacher
<i>Podothecus veterenus</i>	NA
<i>Pollachius virens</i>	Pollock
<i>Pomatomus saltatrix</i>	Bluefish
<i>Porichthys notatus</i>	Plainfin midshipman
<i>Porichthys plectrodon</i>	Atlantic midshipman
<i>Prionotus carolinus</i>	Northern searobin
<i>Prionotus evolans</i>	Striped searobin
<i>Prionotus longispinosus</i>	Bigeye searobin
<i>Prionotus ophryas</i>	Bandtail searobin
<i>Prionotus paralatus</i>	Mexican searobin
<i>Prionotus roseus</i>	Bluespotted searobin
<i>Prionotus rubio</i>	Blackwing searobin
<i>Prionotus scitulus</i>	Leopard searobin
<i>Prionotus stearnsi</i>	Shortwing searobin
<i>Prionotus tribulus</i>	Bighead searobin
<i>Pristipomoides aquilonaris</i>	Wenchman
<i>Pseudarchaster parelii</i>	Northern scarlet star
<i>Pseudopleuronectes americanus</i>	Winter flounder
<i>Pseudostichopus mollis</i>	Sandy sea cucumber
<i>Pteraster militaris</i>	Wrinkled sea star
<i>Pteraster obscurus</i>	Obscure cushion star
<i>Pycnopodia helianthoides</i>	Sunflower sea star
<i>Raja texana</i>	Roundel skate
<i>Raninoides louisianensis</i>	Gulf frog crab
<i>Rathbunaster californicus</i>	California sun star
<i>Reinhardtius hippoglossoides</i>	Greenland halibut
<i>Renilla muelleri</i>	Mueller's sea pansy
<i>Rhinoptera bonasus</i>	Cownose ray
<i>Rhizoprionodon terraenovae</i>	Atlantic sharpnose shark
<i>Rhomboplites aurorubens</i>	Vermilion snapper
<i>Rossia pacifica</i>	Eastern pacific bobtail
<i>Rostroraja eglanteria</i>	Clearnose skate
<i>Sagenaster evermanni</i>	Evermann's star
<i>Sardinella aurita</i>	Spanish sardine
<i>Sarritor frenatus</i>	Sawback poacher
<i>Saurida brasiliensis</i>	Largescale lizardfish
<i>Sclerocrangon boreas</i>	Sculptured shrimp
<i>Scomber scombrus</i>	Atlantic mackerel
<i>Scomberomorus cavalla</i>	King mackerel
<i>Scomberomorus maculatus</i>	Spanish mackerel

Scophthalmus aquosus	Windowpane flounder
Scorpaena brasiliensis	Barbfish
Scorpaena calcarata	Smoothhead scorpionfish
Scyllarides nodifer	Ridged slipper lobster
Scyllarus chacei	Chace slipper lobster
Sebastes alutus	Pacific ocean perch
Sebastes aurora	Aurora rockfish
Sebastes babcocki	Redbanded rockfish
Sebastes borealis	Shortraker rockfish
Sebastes brevispinis	Silvergray rockfish
Sebastes chlorostictus	Greenspotted rockfish
Sebastes crameri	Darkblotched rockfish
Sebastes diploproa	Splitnose rockfish
Sebastes elongatus	Greenstriped rockfish
Sebastes entomelas	Widow rockfish
Sebastes fasciatus	Acadian redfish
Sebastes flavidus	Yellowtail rockfish
Sebastes goodei	Chilipepper rockfish
Sebastes helvomaculatus	Rosethorn rockfish
Sebastes jordani	Shortbelly rockfish
Sebastes melanostictus and S. aleutianus	Blackspotted and rougheye rockfish
Sebastes paucispinis	Bocaccio
Sebastes pinniger	Canary rockfish
Sebastes polyspinis	Northern rockfish
Sebastes proriger	Redstripe rockfish
Sebastes saxicola	Stripetail rockfish
Sebastes semicinctus	Halfbanded rockfish
Sebastes variabilis and S. ciliatus	Dusky and dark rockfish
Sebastes variegatus	Harlequin rockfish
Sebastes zacentrus	Sharpchin rockfish
Sebastolobus alascanus	Shortspine thornyhead
Sebastolobus altivelis	Longspine thornyhead
Selene setapinnis	Atlantic moonfish
Selene vomer	Lookdown
Serranus atrobranchus	Blackear bass
Serranus phoebe	Tattler
Serripes notabilis	Oblique smoothcockle
Sicyonia brevirostris	Brown rock shrimp
Sicyonia dorsalis	Lesser rock shrimp
Sphoeroides dorsalis	Marbled puffer
Sphoeroides maculatus	Northern puffer
Sphoeroides parvus	Least puffer
Sphoeroides spengleri	Bandtail puffer
Sphyraena guachancho	Guachanche barracuda

<i>Sphyrna tiburo</i>	Bonnethead
<i>Squalus acanthias</i>	Spiny dogfish
<i>Squalus suckleyi</i>	Pacific spiny dogfish
<i>Squilla chydrea</i>	Offshore mantis shrimp
<i>Squilla empusa</i>	Mantis shrimp
<i>Stegophiura ponderosa</i>	NA
<i>Stellifer lanceolatus</i>	Star drum
<i>Stenorhynchus seticornis</i>	Yellowline arrow crab
<i>Stenotomus caprinus</i>	Longspine porgy
<i>Stenotomus chrysops</i>	Scup
<i>Stephanolepis hispida</i>	Planehead filefish
<i>Strongylocentrotus droebachiensis</i>	Green sea urchin
<i>Strongylocentrotus fragilis</i>	Fragile sea urchin
<i>Styela rustica</i>	Sea potato
<i>Stylasterias forreri</i>	Velcro star
<i>Syacium gunteri</i>	Shoal flounder
<i>Syacium papillosum</i>	Dusky flounder
<i>Symphurus plagiosa</i>	Blackcheek tonguefish
<i>Synodus foetens</i>	Inshore lizardfish
<i>Synodus intermedius</i>	Sand diver
<i>Synodus poeyi</i>	Offshore lizardfish
<i>Talismania bifurcata</i>	Threadfin slickhead
<i>Tedania (Tedania) kagalaskai</i>	NA
<i>Telmessus cheiragonus</i>	Helmet crab
<i>Thaleichthys pacificus</i>	Eulachon
<i>Thrissacanthias penicillatus</i>	NA
<i>Trachinocephalus myops</i>	Snakefish
<i>Trachinotus carolinus</i>	Florida pompano
<i>Trachurus lathami</i>	Rough scad
<i>Trichiurus lepturus</i>	Atlantic cutlassfish
<i>Trichopsetta ventralis</i>	Sash flounder
<i>Triglops forficatus</i>	Scissortail sculpin
<i>Triglops pingelii</i>	Ribbed sculpin
<i>Triglops szepticus</i>	Spectacled sculpin
<i>Trinectes maculatus</i>	Hogchoker
<i>Tritonia tetraquetra</i>	Large orange peel nudibranch
<i>Upeneus parvus</i>	Dwarf goatfish
<i>Urophycis chuss</i>	Red hake
<i>Urophycis regia</i>	Spotted hake
<i>Urophycis tenuis</i>	White hake
<i>Xiphopenaeus kroyeri</i>	Atlantic seabob
<i>Zalembius rosaceus</i>	Pink seaperch
<i>Zaniolepis latipinnis</i>	Longspine combfish
<i>Zaprora silenus</i>	Prowfish

Zoarces americanus

Ocean pout

APPENDIX III: LIST OF SPECIES FILTERED OUT OF FINAL DATASET

Spp	common
<i>Ablennes hians</i>	Flat needlefish
<i>Abralia veranyi</i>	Eye flash squid
<i>Abraliopsis felis</i>	NA
<i>Abyssocladia flagrum</i>	NA
<i>Acanthephyra curtirostris</i>	Peaked shrimp
<i>Acanthilia intermedia</i>	Granulose purse crab
<i>Acanthocarpus alexandri</i>	Gladiator box crab
<i>Acantholithodes hispidus</i>	Spiny lithode crab
<i>Acanthoptilum gracile</i>	White sea pen
<i>Acanthostracion polygonius</i>	Honeycomb cowfish
<i>Acanthurus chirurgus</i>	Doctorfish
<i>Acanthurus coeruleus</i>	Blue tang surgeonfish
<i>Acesta sphoni</i>	NA
<i>Acharax johnsoni</i>	NA
<i>Achelous depressifrons</i>	Flatface swimming crab
<i>Achelous floridanus</i>	NA
<i>Achirus lineatus</i>	Lined sole
<i>Acipenser medirostris</i>	Green sturgeon
<i>Acipenser oxyrinchus</i>	Atlantic sturgeon
<i>Actinostola groenlandica</i>	NA
<i>Adelogorgia phyllosclera</i>	NA
<i>Adelosebastes latens</i>	NA
<i>Admete solida</i>	NA
<i>Aequipecten glyptus</i>	Red ribbed scallop
<i>Aequorea forskalea</i>	Many ribbed jellyfish
<i>Aetobatus narinari</i>	Spotted eagle ray
<i>Aforia circinata</i>	Keeled aforia
<i>Aforia godei</i>	NA
<i>Agonopsis sterletus</i>	Southern spearnose poacher
<i>Agonopsis vulsa</i>	Northern spearnose poacher
<i>Agriopoma texasianum</i>	NA
<i>Akoya platinum</i>	Silvery topsnail
<i>Alaskagorgia aleutiana</i>	NA
<i>Albunea gibbesii</i>	Surf mole crab
<i>Albunea paretii</i>	Beach mole crab
<i>Alcyonidium disciforme</i>	NA
<i>Alcyonidium enteromorpha</i>	NA
<i>Alcyonidium pedunculatum</i>	Smooth leather bryozoan
<i>Alectis ciliaris</i>	African pompano
<i>Alepisaurus ferox</i>	Long snouted lancetfish
<i>Aleutihenricia beringiana</i>	Bering henricia

<i>Aleutihenricia federi</i>	NA
<i>Aliger gallus</i>	Roostertail conch
<i>Allocareproctus jordani</i>	Cherry snailfish
<i>Allocareproctus kallaion</i>	Combed snailfish
<i>Allocareproctus tanix</i>	Peach snailfish
<i>Allocareproctus unangas</i>	Goldeneye snailfish
<i>Allocareproctus ungar</i>	Whiskered snailfish
<i>Alloctytus folletti</i>	Oxeye oreo
<i>Allosmerus elongatus</i>	Whitebait smelt
<i>Allothyone mexicana</i>	NA
<i>Alopias superciliosus</i>	Bigeye thresher
<i>Alopias vulpinus</i>	Thresher
<i>Alosa chrysochloris</i>	Skipjack shad
<i>Alosa mediocris</i>	Hickory shad
<i>Alpheus armatus</i>	Brown snapping shrimp
<i>Alpheus floridanus</i>	Sand snapping shrimp
<i>Alpheus formosus</i>	Striped snapping shrimp
<i>Alpheus heterochaelis</i>	Bigclaw snapping shrimp
<i>Alpheus intricatus</i>	NA
<i>Alpheus normanni</i>	Green snapping shrimp
<i>Aluterus heudelotii</i>	Dotterel filefish
<i>Aluterus monoceros</i>	Unicorn leatherjacket filefish
<i>Aluterus scriptus</i>	Scribbled leatherjacket filefish
<i>Amaea mitchelli</i>	Mitchell's wentletrap
<i>Amauropsis islandica</i>	Iceland moonshell
<i>Amblyraja hyperborea</i>	Broad skate
<i>Americardia media</i>	Atlantic strawberry-cockle
<i>Ameritella modesta</i>	Plain tellin
<i>Amicula vestita</i>	NA
<i>Ammodytes americanus</i>	American sand lance
<i>Ammodytes dubius</i>	Northern sand lance
<i>Ammodytes hexapterus</i>	Arctic sand lance
<i>Ammodytes personatus</i>	Pacific sand lance
<i>Amphaster marianus</i>	Mariana's island star
<i>Amphilectus ovulum</i>	Beige horny sponge
<i>Amphiodia occidentalis</i>	Long armed brittle star
<i>Amphiophiura superba</i>	NA
<i>Amphisbetia greenei</i>	Fibre optic hydroid
<i>Amphistichus argenteus</i>	Barred surfperch
<i>Amphistichus rhodoterus</i>	Redtail surfperch
<i>Amphiura (Amphiura) diomedea</i>	NA
<i>Anadara notabilis</i>	Eared ark
<i>Anadara secernenda</i>	Skewed ark
<i>Anadara transversa</i>	Transverse ark

<i>Anarhichas orientalis</i>	Bering wolffish
<i>Anarrhichthys ocellatus</i>	Wolf-eel
<i>Anchistoioides antiguensis</i>	NA
<i>Anchoa cubana</i>	Cuban anchovy
<i>Anchoa lyolepis</i>	Shortfinger anchovy
<i>Anchoa mitchilli</i>	Bay anchovy
<i>Anchoviella perfasciata</i>	Poey's anchovy
<i>Ancistrolepis bicinctus</i>	NA
<i>Ancylopsetta dilecta</i>	Three-eye flounder
<i>Anguilla rostrata</i>	American eel
<i>Anisarchus medius</i>	Stout eelblenny
<i>Anisotremus virginicus</i>	Porkfish
<i>Anomalisipho martensi</i>	Marten's whelk
<i>Anomalisipho verkruezeni</i>	NA
<i>Anomia simplex</i>	Common jingle
<i>Anoplagonus inermis</i>	Smooth alligatorfish
<i>Anoplodactylus lentus</i>	Black sea spider
<i>Anoplogaster cornuta</i>	Common fangtooth
<i>Anotopterus nikparini</i>	North pacific daggertooth
<i>Anteliaster microgenys nannodes</i>	NA
<i>Antennarius multiocellatus</i>	Longlure frogfish
<i>Antennarius striatus</i>	Striated frogfish
<i>Anthenoides peircei</i>	NA
<i>Anthias nicholsi</i>	Yellowfin bass
<i>Anthopleura xanthogrammica</i>	Giant green anemone
<i>Anthoptilum murrayi</i>	NA
<i>Anthothela grandiflora</i>	Great flowerbud coral
<i>Antigonia capros</i>	Deepbody boarfish
<i>Antigonia combatia</i>	Shortspine boarfish
<i>Antillimunida flinti</i>	NA
<i>Antillimunida hispida</i>	Brittle squat lobster
<i>Antimora rostrata</i>	Blue antimora
<i>Antiplanes catalinae</i>	NA
<i>Anuropus bathypelagicus</i>	NA
<i>Aphanopus arigato</i>	Pacific black scabbardfish
<i>Aphanopus carbo</i>	Black scabbardfish
<i>Aphanopus intermedius</i>	Intermediate scabbardfish
<i>Aphrodita negligens</i>	Dishevelled sea-mouse
<i>Aplidium californicum</i>	California sea pork
<i>Aplidium soldatovi</i>	NA
<i>Aplidium stellatum</i>	NA
<i>Apogon aurolineatus</i>	Bridle cardinalfish
<i>Apogon maculatus</i>	Flamefish
<i>Apogon pseudomaculatus</i>	Twospot cardinalfish

<i>Apogon quadrisquamatus</i>	Sawcheek cardinalfish
<i>Apostichopus japonicus</i>	Japanese sea cucumber
<i>Apostichopus parvimensis</i>	Warty sea cucumber
<i>Apristurus kampae</i>	Longnose catshark
<i>Aptocyclus ventricosus</i>	Smooth lumpsucker
<i>Arbacia punctulata</i>	Purple-spined sea urchin
<i>Arca imbricata</i>	Mossy ark
<i>Arca zebra</i>	Turkey wing
<i>Archistes biseriatus</i>	Scaled sculpin
<i>Archistes plumarius</i>	Plumed sculpin
<i>Architectonica nobilis</i>	Common sundial
<i>Archosargus probatocephalus</i>	Sheepshead
<i>Arcinella cornuta</i>	Florida spiny jewelbox
<i>Arctica islandica</i>	Ocean quahog
<i>Arctomelon boreale</i>	NA
<i>Arctomelon stearnsii</i>	Alaska volute
<i>Arctomelon tamikoeae</i>	NA
<i>Arctonoe vittata</i>	Red banded commensal scaleworm
<i>Arctozenus risso</i>	Spotted barracudina
<i>Areopaguristes hummi</i>	NA
<i>Areopaguristes oxyphthalmus</i>	NA
<i>Argentina sialis</i>	Pacific argentine
<i>Argentina silus</i>	Atlantic argentine
<i>Argentina striata</i>	Striated argentine
<i>Argis alaskensis</i>	Alaska argid
<i>Argis crassa</i>	Rough argid
<i>Argis dentata</i>	Arctic argid
<i>Argis lar</i>	Kuro shrimp
<i>Argis levior</i>	Nelson argid
<i>Argis ovifer</i>	Split-eye argid
<i>Argopecten gibbus</i>	Calico scallop
<i>Argopecten irradians</i>	Atlantic bay scallop
<i>Argyropelecus aculeatus</i>	Lovely hatchetfish
<i>Argyropelecus affinis</i>	Pacific hatchet fish
<i>Argyropelecus lychnus</i>	Tropical hatchetfish
<i>Ariomma bondi</i>	Silver rag driftfish
<i>Ariomma melana</i>	Brown driftfish
<i>Ariomma regulus</i>	Spotted driftfish
<i>Ariosoma balearicum</i>	Bandtooth conger
<i>Aristofusus couei</i>	Yucatan spindle
<i>Aristofusus excavatus</i>	Apricot spindle
<i>Aristostomias scintillans</i>	Shiny loosejaw
<i>Armases cinereum</i>	Squareback marsh crab

<i>Armina californica</i>	California armina
<i>Armina tigrina</i>	Striped sea slug
<i>Artediellus miacanthus</i>	NA
<i>Artediellus pacificus</i>	Hookhorn sculpin
<i>Artediellus scaber</i>	Rough hookear
<i>Artedius fenestralis</i>	Padded sculpin
<i>Artedius lateralis</i>	Smoothhead sculpin
<i>Artemisina arcigera</i>	NA
<i>Arthrogorgia kinoshitai</i>	NA
<i>Arthrogorgia otsukai</i>	NA
<i>Arthrogorgia utinomii</i>	NA
<i>Ascidia paratropa</i>	Glassy tunicate
<i>Asemichthys taylori</i>	Spinynose sculpin
<i>Aspidophoroides monopterygius</i>	Alligatorfish
<i>Astarte arctica</i>	Arctic astarte
<i>Astarte borealis</i>	Boreal astarte
<i>Astarte compacta</i>	Compact astarte
<i>Astarte crenata</i>	Crenulate astarte
<i>Astarte elliptica</i>	Elliptical astarte
<i>Astarte montagui</i>	Narrow hinge astarte
<i>Asterias rubens</i>	Common starfish
<i>Asteronyx longifissus</i>	NA
<i>Asteronyx loveni</i>	NA
<i>Asteroporpa (Asteroporpa) annulata</i>	NA
<i>Asteroschema sublaeve</i>	NA
<i>Asthenactis fisheri</i>	Fisher's myxasterid
<i>Astrapogon alutus</i>	Bronze cardinalfish
<i>Astrapogon puncticulatus</i>	Blackfin cardinalfish
<i>Astrochele laevis</i>	NA
<i>Astrocyclus caecilia</i>	NA
<i>Astrogordius cacaoticus</i>	NA
<i>Astrometis sertulifera</i>	Fragile rainbow star
<i>Astronebris tatafilii</i>	NA
<i>Astropecten antillensis</i>	NA
<i>Astropecten armatus</i>	Spiny sand star
<i>Astropecten articulatus</i>	Royal sea star
<i>Astropecten californicus</i>	California sand star
<i>Astropecten ornatissimus</i>	Orange sand star
<i>Astrophyton muricatum</i>	Giant basket star
<i>Astropyga magnifica</i>	NA
<i>Astroscopus guttatus</i>	Northern stargazer
<i>Astroscopus ygraecum</i>	Southern stargazer
<i>Atheresthes evermanni</i>	Kamchatka flounder
<i>Atherinops affinis</i>	Topsmelt silverside

<i>Atherinopsis californiensis</i>	Jacksmelt
<i>Atlantopandalus propinquus</i>	Similar shrimp
<i>Atrina rigida</i>	Stiff pen shell
<i>Atrina seminuda</i>	Half naked pen shell
<i>Atrina serrata</i>	Sawtooth penshell
<i>Aulacofusus brevicauda</i>	Thick ribbed whelk
<i>Aulacofusus calathus</i>	NA
<i>Aulacofusus herendeeni</i>	Thin-ribbed whelk
<i>Aulacofusus ombronius</i>	Shady whelk
<i>Aulacofusus periscelidus</i>	Garter whelk
<i>Aulorhynchus flavidus</i>	Tube snout
<i>Aulosaccus schulzei</i>	NA
<i>Aurelia aurita</i>	Moon jelly
<i>Aurelia labiata</i>	Pacific moon jelly
<i>Aurelia limbata</i>	Brownbranded moon jelly
<i>Auxis thazard</i>	Frigate tuna
<i>Avocettina infans</i>	Avocet snipe eel
<i>Babamunida forceps</i>	NA
<i>Bagre marinus</i>	Gafftopsail catfish
<i>Bajacalifornia burragei</i>	Sharpchin slickhead
<i>Bajacalifornia erimoensis</i>	NA
<i>Balanus balanus</i>	Rough barnacle
<i>Balanus nubilus</i>	NA
<i>Balanus rostratus</i>	Rostrate barnacle
<i>Balanus trigonus</i>	NA
<i>Baldwinella vivanus</i>	Red barbier
<i>Balistes vetula</i>	Queen triggerfish
<i>Balticina californica</i>	Short sea whip
<i>Balticina finmarchica</i>	Hammer-tipped sea pen
<i>Balticina willemoesi</i>	Willemoes's white sea pen
<i>Bankia setacea</i>	Feathery shipworm
<i>Bathophilus flemingi</i>	Highfin dragonfish
<i>Bathyagonus alascanus</i>	Gray starsnout
<i>Bathyagonus infraspinus</i>	Spinycheek starsnout
<i>Bathyagonus nigripinnis</i>	Blackfin poacher
<i>Bathyagonus pentacanthus</i>	Bigeye poacher
<i>Bathyanthias cubensis</i>	NA
<i>Bathyanthias mexicanus</i>	Yellowtail bass
<i>Bathybuccinum ovulum</i>	NA
<i>Bathylagus pacificus</i>	Slender blacksmelt
<i>Bathylchnops exilis</i>	Javelin spookfish
<i>Bathymaster caeruleofasciatus</i>	Alaskan ronquil
<i>Bathymaster leurolepis</i>	Smallmouth ronquil
<i>Bathynectes longispina</i>	Bathyal swimming crab

Bathypathes patula	Patulous black coral
Bathypolypus arcticus	North atlantic octopus
Bathytoshia centroura	Roughtail stingray
Belknapchiton alveolus	NA
Belknapchiton belknapi	NA
Bellator brachychir	Shortfin searobin
Bellator egretta	Streamer searobin
Bellator xenisma	Splitnose searobin
Bembrops anatirostris	Duckbill flathead
Bembrops gobioides	Goby flathead
Benthalbella dentata	Northern pearleye
Benthodesmus pacificus	North pacific frostfish
Benthodesmus simonyi	Simony's frostfish
Beringius aleuticus	NA
Beringius behringii	Behring's whelk
Beringius crebricostatus	Thick cord whelk
Beringius eyerdami	NA
Beringius kennicottii	Rotund whelk
Beringius rotundus	NA
Beringius stimpsoni	Stimpson's whelk
Beringius undatus	NA
Beringraja stellulata	Starry skate
Bertella idiomorpha	NA
Blepsias bilobus	Crested sculpin
Bodianus pulchellus	Spotfin hogfish
Bolinia euryptera	Sculpin
Bollmannia boqueronensis	White eye goby
Bollmannia communis	Ragged goby
Boltenia echinata	Cactus sea squirt
Boltenia villosa	Spiny headed sea squirt
Boreogennema borealis	Northern blunt-tail shrimp
Boreoscala greenlandica	Greenland wentletrap
Boreotrophon alaskanus	NA
Boreotrophon clathratus	Clathrate trophon
Boreotrophon multicostatus	Ribbed trophon
Boreotrophon pacificus	NA
Borostomias panamensis	Panama snaggletooth
Bothrocara hollandi	NA
Bothrocara molle	Soft eelpout
Bothrocara pusillum	Alaska eelpout
Bothrocara zestum	NA
Bothus robinsi	Twospot flounder
Botryllus schlosseri	Golden star tunicate
Brama japonica	Pacific pomfret

<i>Bregmaceros atlanticus</i>	Antenna codlet
<i>Bregmaceros cantori</i>	Striped codlet
<i>Brevoortia gunteri</i>	Finescale menhaden
<i>Brevoortia patronus</i>	Gulf menhaden
<i>Brevoortia smithi</i>	Yellowfin menhaden
<i>Brisaster owstoni</i>	NA
<i>Brisaster townsendi</i>	Northern heart urchin
<i>Brissopsis alta</i>	NA
<i>Brissopsis atlantica</i>	NA
<i>Brissopsis pacifica</i>	Pacific heart urchin
<i>Brosme brosme</i>	Cusk
<i>Brosmophycis marginata</i>	Red brotula
<i>Brotula barbata</i>	Bearded brotula
<i>Bryozoichthys lysimus</i>	Nutcracker prickleback
<i>Bryozoichthys marjorius</i>	Pearly prickleback
<i>Buccinum aleuticum</i>	Aleut whelk
<i>Buccinum angulosum transliratum</i>	NA
<i>Buccinum bulimuloideum</i>	NA
<i>Buccinum castaneum</i>	Chestnut whelk
<i>Buccinum ciliatum</i>	NA
<i>Buccinum clarki</i>	NA
<i>Buccinum cnismatum</i>	NA
<i>Buccinum eugrammatum</i>	Lirate whelk
<i>Buccinum fringillum</i>	Finch whelk
<i>Buccinum glaciale</i>	Glacial whelk
<i>Buccinum mirandum picturatum</i>	Painted whelk
<i>Buccinum oedematum</i>	Swollen whelk
<i>Buccinum plectrum</i>	Sinuuous whelk
<i>Buccinum rondinum</i>	NA
<i>Buccinum sigmatopleura</i>	NA
<i>Buccinum simulatum</i>	NA
<i>Buccinum strigillatum</i>	NA
<i>Buccinum tenellum</i>	Pleated whelk
<i>Buccinum terraenovae</i>	Solen whelk
<i>Buccinum undatum</i>	Waved whelk
<i>Buccinum viridum</i>	Turban whelk
<i>Bulbus fragilis</i>	Fragile moonsnail
<i>Bulla striata</i>	Striate bubble
<i>Bursa granularis</i>	NA
<i>Bursatella leachii</i>	NA
<i>Busycotypus spiratus</i>	Pearwhelk
<i>Cadlina luteomarginata</i>	Yellow edge cadlina
<i>Cadlina modesta</i>	Modest cadlina
<i>Calamus arctifrons</i>	Grass porgy

Calamus bajonado	Jolthead porgy
Calamus calamus	Saucereye porgy
Calamus leucosteus	Whitebone porgy
Calamus nodosus	Knobbed porgy
Calamus penna	Sheepshead porgy
Calappa flammea	Flame box crab
Calappa gallus	Rough box crab
Calappa ocellata	Ocellated box crab
Calappula tortugae	NA
Calcigorgia beringi	Bering sea fan coral
Calcigorgia spiculifera	Pink gorgonian
Calinaticina oldroydii	Oldroyd's fragile moon snail
Calliactis tricolor	Hermit anemone
Callianax alectona	NA
Callianax biplicata	Purple olive snail
Callidactylus asper	Spurfinger purse crab
Callinectes marginatus	Masked swimcrab
Callionymus bairdi	Lancer dragonet
Calliostoma euglyptum	Sculptured topsnail
Calliostoma jujubinum	Mottled topsnail
Calliostoma variegatum	NA
Calliotropis carlotta	NA
Callistephanus pacificus	NA
Callistephanus simplex	NA
Callogorgia fraseri	NA
Callogorgia kinoshitai	NA
Callpita eucymata	Glory of-the-seas venus
Calocarides quinqueseriatus	Keeled lobster shrimp
Cancellaria crawfordiana	Crawford nutmeg
Cancellaria reticulata	Common nutmeg
Cancer productus	Red rock crab
Cantherhines macrocerus	American whitespotted filefish
Cantherhines pullus	Orangespotted filefish
Canthidermis maculata	Rough triggerfish
Canthigaster jamestyleri	Goldface toby
Canthigaster rostrata	Caribbean sharpnose-puffer
Caraibops trispinosus	Threespine bass
Caranx bartholomaei	Yellow jack
Caranx hippos	Crevalle jack
Caranx latus	Horse eye jack
Caranx ruber	Bar jack
Carapus bermudensis	Pearlfish
Carcharhinus acronotus	Blacknose shark
Carcharhinus brevipinna	Spinner shark

<i>Carcharhinus falciformis</i>	Silky shark
<i>Carcharhinus isodon</i>	Finetooth shark
<i>Carcharhinus leucas</i>	Bull shark
<i>Carcharhinus limbatus</i>	Blacktip shark
<i>Carcharhinus obscurus</i>	Dusky shark
<i>Carcharhinus plumbeus</i>	Sandbar shark
<i>Carcharhinus porosus</i>	Smalltail shark
<i>Carcharias taurus</i>	Sand tiger shark
<i>Carcinus maenas</i>	Green crab
<i>Careproctus abbreviatus</i>	NA
<i>Careproctus canus</i>	NA
<i>Careproctus colletti</i>	Alaska snailfish
<i>Careproctus comus</i>	Comic snailfish
<i>Careproctus cypselurus</i>	Falcate snailfish
<i>Careproctus ectenes</i>	Shovelhead snailfish
<i>Careproctus faunus</i>	Mischievous snailfish
<i>Careproctus furcellus</i>	NA
<i>Careproctus gilberti</i>	Smalldisk snailfish
<i>Careproctus kamikawai</i>	NA
<i>Careproctus lerikimae</i>	NA
<i>Careproctus lycopersicus</i>	Tomato snailfish
<i>Careproctus ostentum</i>	NA
<i>Careproctus ovigerus</i>	Abyssal snailfish
<i>Careproctus phasma</i>	NA
<i>Careproctus rastrinus</i>	Salmon snailfish
<i>Careproctus scottae</i>	NA
<i>Careproctus simus</i>	NA
<i>Careproctus staufferi</i>	NA
<i>Careproctus zachirus</i>	NA
<i>Caribachlamys sentis</i>	Scaly scallop
<i>Carinaria cristata</i>	Glassy nautilus
<i>Caristius macropus</i>	Manefish
<i>Carpoporus papulosus</i>	Narrowfront rubble crab
<i>Caryophyllia (Caryophyllia) alaskensis</i>	Tan cup coral
<i>Caryophyllia (Caryophyllia) arnoldi</i>	Arnold's stony coral
<i>Cassiopea xamachana</i>	Upsidedown jellyfish
<i>Cassis flammea</i>	Flame helmet
<i>Cassis madagascariensis</i>	Emperor helmet
<i>Cassis tuberosa</i>	King helmet
<i>Cataetyx rubrirostris</i>	Rubynose brotula
<i>Caudina arenicola</i>	Sweet potato
<i>Caulolatilus chrysops</i>	Atlantic goldeneye tilefish
<i>Caulolatilus cyanops</i>	Blackline tilefish
<i>Caulolatilus intermedius</i>	Anchor tilefish

Caulolatilus microps	Grey tilefish
Caulolatilus princeps	Ocean whitefish
Caulophryne jordani	Fanfin angler
Celatopesia concava	NA
Celleporina ventricosa	NA
Centroscyllium fabricii	Black dogfish
Centroscyllium nigrum	Combtooth dogfish
Centrostephanus longispinosus rubricing	NA
Cephalopholis cruentata	Graysby
Cephaloscyllium ventriosum	Swell shark
Ceramaster arcticus	Arctic cookie star
Ceramaster clarki	Deep sea cookie star
Ceramaster japonicus	Red cookie star
Ceramaster leptoceramus	NA
Ceramaster patagonicus	Cookie star
Ceramaster stellatus	Stellate cookie star
Ceratoscopelus maderensis	Madeira lantern fish
Cerebratulus californiensis	Ribbon worm
Cerithium atratum	Dark cerith
Cerithium eburneum	Ivory cerith
Cetorhinus maximus	Basking shark
Chaceon fenneri	Golden deepsea crab
Chaenophryne draco	Smooth dreamer
Chaenophryne longiceps	Can opener smoothdream
Chaenopsis ocellata	Bluethroat pikeblenny
Chaetaster nodosus	NA
Chaetodon sedentarius	Reef butterflyfish
Chama congregata	Corrugate jewelbox
Chama macerophylla	Leafy jewelbox
Charybdis hellerii	Spiny hands
Chauliodus danae	Dana viperfish
Chauliodus sloani	Sloane's viperfish
Chaunax stigmaeus	Redeye gaper
	Red and-white-banded sea-nymph
Cheilonereis cyclurus	
Cheilopogon cyanopterus	Margined flyingfish
Cheilopogon furcatus	Spotfin flyingfish
Cheilopogon heterurus	Mediterranean flyingfish
Cheilopogon melanurus	Atlantic flyingfish
Cheilotrema saturnum	Black croaker
Chelonia mydas	Green sea turtle
Chelyosoma orientale	NA
Chelyosoma productum	Disc top tunicate
Chesnonia verrucosa	Warty poacher

<i>Chiasmodon niger</i>	Black swallower
<i>Chicoreus florifer</i>	Flowery lace murex
<i>Chilara taylori</i>	Spotted cusk-eel
<i>Chilomycterus antennatus</i>	Bridled burrfish
<i>Chilomycterus antillarum</i>	Web burrfish
<i>Chilomycterus reticulatus</i>	Spotfin burrfish
<i>Chionoecetes angulatus</i>	Triangle tanner crab
<i>Chiridota albatrossii</i>	NA
<i>Chirolophis decoratus</i>	Decorated warbonnet
<i>Chirolophis nugator</i>	Mosshead warbonnet
<i>Chirolophis snyderi</i>	Bearded warbonnet
<i>Chirolophis tarsodes</i>	Matcheck warbonnet
<i>Chirona evermanni</i>	Deepwater giant barnacle
<i>Chiroteuthis calyx</i>	NA
<i>Chitonotus pugetensis</i>	Roughback sculpin
<i>Chlamys albida</i>	White scallop
<i>Chlamys behringiana</i>	Bering scallop
<i>Chlamys erythocomata</i>	NA
<i>Chlamys hastata</i>	Spiny scallop
<i>Chlamys islandica</i>	Iceland scallop
<i>Chlamys islandica clapper</i>	NA
<i>Chlamys pseudoislandica</i>	NA
<i>Chlamys rubida</i>	Reddish scallop
<i>Chlamys unalaskae</i>	NA
<i>Chloeia viridis</i>	Fire worm
<i>Chlorophthalmus agassizi</i>	Shortnose greeneye
<i>Chondrocladia (Chondrocladia) conrescens</i>	NA
<i>Chondrocladia (Chondrocladia) grandis</i>	NA
<i>Chonospeira nuda</i>	Naked solarelle
<i>Chromis enchrysurus</i>	Yellowtail reeffish
<i>Chromis scotti</i>	Purple reeffish
<i>Chromoplexaura marki</i>	NA
<i>Chrysaora colorata</i>	Purple striped jelly
<i>Chrysaora fuscens</i>	Pacific sea nettle
<i>Chrysaora fuscescens</i>	Brown jellyfish
<i>Chrysopathes speciosa</i>	Gaudy black coral
<i>Cidarina cidaris</i>	Adam spiny margarite
<i>Ciliatocardium ciliatum</i>	Hairy cockle
<i>Cinctura hunteria</i>	Banded tulip shell
<i>Cinctura lilium</i>	Banded tulip
<i>Cistenides granulata</i>	NA
<i>Citharichthys cornutus</i>	Horned whiff
<i>Citharichthys dinoceros</i>	Spined whiff

<i>Citharichthys gymnorhinus</i>	Anglefin whiff
<i>Citharichthys stigmaeus</i>	Speckled sanddab
<i>Citharichthys xanthostigma</i>	Longfin sanddab
<i>Cladaster validus</i>	NA
<i>Cladocroce attu</i>	NA
<i>Cladocroce infundibulum</i>	NA
<i>Cladocroce kiska</i>	NA
<i>Clathrina blanca</i>	NA
<i>Clavularia evagorgiacrustans</i>	NA
<i>Clavularia incrustans</i>	NA
<i>Clibanarius vittatus</i>	Thinstripe hermit
<i>Clinocardium nuttallii</i>	Nuttall cockle
<i>Clinocottus acuticeps</i>	Sharpnose sculpin
<i>Cnemidocarpa finmarkiensis</i>	Shiny red sea squirt
<i>Coanicardita ventricosa</i>	Stout cyclocardia
<i>Coelocerus spinosus</i>	Channelnose spider crab
<i>Coelorinchus caelorrhincus</i>	Longnose grenadier
<i>Coelorinchus scaphopsis</i>	Shoulderspot grenadier
<i>Coenocyathus bowersi</i>	NA
<i>Colga pacifica</i>	NA
<i>Collodes robustus</i>	Robust crab
<i>Collodes trispinosus</i>	NA
<i>Cololabis saira</i>	Pacific saury
<i>Colossendeis microsetosa</i>	NA
<i>Colus griseus</i>	Gray whelk
<i>Colus pulcius</i>	NA
<i>Comactinia meridionalis</i>	NA
<i>Conger oceanicus</i>	Conger eel
<i>Conodon nobilis</i>	Barred grunt
<i>Cookeolus japonicus</i>	Longfinned bullseye
<i>Cornulum clathriata</i>	NA
<i>Coronis scolopendra</i>	NA
<i>Coryphaena equiselis</i>	Pompano dolphinfish
<i>Coryphaena hippurus</i>	Common dolphinfish
<i>Coryphaenoides cinereus</i>	Popeye grenadier
<i>Coryphaenoides filifer</i>	Filamented rattail
<i>Coryphopterus punctipectophorus</i>	Spotted goby
<i>Coryrhynchus lamelligerus</i>	NA
<i>Coryrhynchus riisei</i>	Longfinger neck crab
<i>Coryrhynchus sidneyi</i>	Shortfinger neck crab
<i>Cosmocampus albirostris</i>	Whitenose pipefish
<i>Costoanachis floridana</i>	NA
<i>Cranchia scabra</i>	Rough cranch squid
<i>Crangon alaskensis</i>	Alaska shrimp

Crangon dalli	Ridged crangon
Crangon franciscorum	California bay shrimp
Crangon septemspinosa	Sevenspine bay shrimp
Craniella arb	NA
Craniella craniana	NA
Craniella sigmoanchoratum	NA
Craniella spinosa	Spiny tennis ball sponge
Craniella sputnika	NA
Craniella villosa	Tennis ball sponge
Crassadoma gigantea	Giant rock-scallop
Crassicardia crassidens	Thick cyclocardia
Crassicardia crebricostata	Many rib cyclocardia
Crella brunnea	NA
Crepidula convexa	Convex slippersnail
Crepidula fornicata	Slipper limpet
Crepidula maculosa	Spotted slippersnail
Crepidula plana	Eastern white slippersnail
Cribrinopsis fernaldi	Chevron tentacle anemone
Crispatotrochus foxi	NA
Crisularia pacifica	NA
Cronius ruber	Red swimcrab
Crossata californica	California frogsnail
Cryogorgia koolsae	NA
Cryptacanthodes aleutensis	Dwarf wrymouth
Cryptacanthodes giganteus	Giant wrymouth
Cryptacanthodes maculatus	Wrymouth
Crypthelia trophostega	NA
Cryptochiton stelleri	Giant pacific chiton
Cryptolithodes typicus	Butterfly king crab
Cryptonatica affinis	Arctic moonsnail
Cryptonatica aleutica	Aleutian moonsnail
Cryptonatica russa	Russty moonsnail
Cryptopsaras couesii	Triplewart seadevil
Cryptotomus roseus	Bluelip parrotfish
Crystallichthys cyclospilus	Blotched snailfish
Cuapetes americanus	American grass shrimp
Cubiceps pauciradiatus	Bigeye cigarfish
Cucumaria frondosa	Orange footed sea cucumber
Cucumaria frondosa japonica	Black sea cucumber
Cyclocardia borealis	NA
Cyclocardia ovata	Ovate cyclocardia
Cyclohelia lamellata	NA
Cyclopecten davidsoni	Salmon glass-scallop
Cyclopsetta fimbriata	Spotfin flounder

Cyclopterus lumpus	Lumpfish
Cyclothone acclinidens	Benttooth bristlemouth
Cyclothone atraria	Deep water bristlemouth
Cyclozodion angustum	Nodose box crab
Cylichna alba	White cylichna
Cymatium rubeculum occidentale	Ruby triton
Cymatogaster aggregata	Shiner perch
Cynoscion arenarius	Sand weakfish
Cynoscion nebulosus	Spotted weakfish
Cypraea cinerea	Gray cowry
Cystisoma fabricii	NA
Cyttopsis rosea	Rosy dory
Dactylopterus volitans	Flying gurnard
Danielum ixbauchac	NA
Dardanus fucosus	Bareye hermit
Dardanus insignis	Red brocade hermit
Decapterus macarellus	Mackerel scad
Decapterus tabl	Roughear scad
Decodon puellaris	Red hogfish
Delectopecten vancouverensis	Vancouver scallop
Dendraster excentricus	Eccentric sand dollar
Dendronotus dalli	Dall's dendronotus
Dendronotus frondosus	Frond aeolis
Dendronotus subramosus	Stubby frond-aeolis
Dendrophyllia californica	Tree coral
Dermasterias imbricata	Leather star
Dermaturus mandtii	Wrinkled crab
Dermochelys coriacea	Leatherback turtle
Desmodema lorum	Whiptail ribbonfish
Desmophyllum dianthus	Cockscomb cup coral
Desmophyllum pertusum	Spider hazards coral
Diadema antillarum	Long spined sea urchin
Diaphus theta	California headlightfish
Diapterus auratus	Irish mojarra
Dibranchus atlanticus	Atlantic batfish
Dichelopandalus leptocerus	Bristled longbeak
Dicrolene filamentosa	NA
Dimya argentea	Silver dimyid
Diodon holocanthus	Longspined porcupinefish
Diodon hystrix	Spot fin porcupinefish
Diodora aspera	Keyhole limpet
Diodora cayenensis	Cayenne keyhole limpet
Diplodus holbrookii	Spottail seabream
Diplogrammus pauciradiatus	Spotted dragonet

<i>Dipsacaster anoplus</i>	NA
<i>Dipsacaster borealis</i>	Northern sand star
<i>Dipsacaster eximius</i>	Extraordinary sand star
<i>Dipturus olsenii</i>	Spreadfin skate
<i>Dirona pellucida</i>	Golden dirona
<i>Discorsopagurus schmitti</i>	Tubeworm hermit
<i>Distaplia occidentalis</i>	Mushroom tunicate
<i>Distaplia smithi</i>	Stalked compound tunicate
<i>Distichopora borealis</i>	NA
<i>Distichoptilum gracile</i>	Slender sea pen
<i>Distorsio clathrata</i>	Atlantic distorsio
<i>Distorsio mcgintyi</i>	NA
<i>Dolichopteryx longipes</i>	Brownsnout spookfish
<i>Doris montereyensis</i>	Monterey sea-lemon
<i>Doris odhneri</i>	White night doris
<i>Dorosoma cepedianum</i>	American gizzard shad
<i>Dorosoma petenense</i>	Threadfin shad
<i>Dosidicus gigas</i>	Jumbo flying squid
<i>Dromalia alexandri</i>	Sea dandelion
<i>Dysomma anguillare</i>	Shortbelly eel
<i>Dyspanopeus texanus</i>	Gulf grassflat crab
<i>Echeneis naucrates</i>	Sharksucker
<i>Echeneis neucratoides</i>	Whitefin sharksucker
<i>Echidnocerus cibarius</i>	Puget sound king crab
<i>Echinarachnius parma</i>	Common sand dollar
<i>Echinaster (Othilia) serpentarius</i>	NA
<i>Echinoclathria beringensis</i>	NA
<i>Echinolampas depressa</i>	NA
<i>Echiodon dawsoni</i>	Chain pearlfish
<i>Echiophis intertinctus</i>	Spotted spoon-nose eel
<i>Echiophis punctifer</i>	Stippled spoon-nose eel
<i>Elacatinus horsti</i>	Yellowline goby
<i>Elacatinus xanthiprora</i>	Yellowprow goby
<i>Elassochirus gilli</i>	Pacific red hermit
<i>Elassodiscus caudatus</i>	Blackbelly snailfish
<i>Elassodiscus tremebundus</i>	NA
<i>Elops saurus</i>	Ladyfish
<i>Embiotoca lateralis</i>	Striped seaperch
<i>Emblemaria atlantica</i>	Banner blenny
<i>Emblemaria piratula</i>	Pirate blenny
<i>Enchelyopus cimbrius</i>	Fourbeard rockling
<i>Encope aberrans</i>	NA
<i>Encope michelini</i>	Notched sand dollar
<i>Engina turbinella</i>	White spot engina

Engraulis eurystole	Silver anchovy
Engraulis mordax	Northern anchovy
Engyophrys senta	Spiny flounder
Enophrys bison	Buffalo sculpin
Enophrys lucasi	Leister sculpin
Enophrys taurina	Bull sculpin
Entosphenus tridentatus	Pacific lamprey
Epigonus pandionis	Bigeye
Epinephelus adscensionis	Rock hind
Epinephelus drummondhayi	Speckled hind
Epinephelus itajara	Atlantic goliath grouper
Epizoanthus scotinus	Orange encrusting anemone
Eptatretus deani	Black hagfish
Eptatretus stoutii	Pacific hagfish
Ericerodes gracilipes	Unicorn neck crab
Erilepis zonifer	Skilfish
Errinopora dichotoma	NA
Errinopora fisheri	NA
Errinopora nanneca	NA
Errinopora pourtalesii	Pourtales's lace hydrocoral
Errinopora undulata	NA
Errinopora zarhyncha	NA
Escharopsis sarsi	NA
Etelis oculatus	Queen snapper
Ethusa microphthalma	Broadback sumo crab
Etmopterus gracilispinis	Broadbanded lanternshark
Etmopterus princeps	Great lanternshark
Etropus microstomus	Smallmouth flounder
Etropus rimosus	Gray flounder
Etrumeus sadina	Round herring
Eualus barbatus	Barbed eualid
Eualus biunguis	Deepsea eualid
Eualus fabricii	Arctic eualid
Eualus gaimardii	Circumpolar eualid
Eualus macilentus	Greenland shrimp
Eualus macrophthalmus	Big eyed shrimp
Eualus suckleyi	Shortscale eualid
Eualus townsendi	Townsend eualid
Euceramus praelongus	Olivepit porcelain crab
Euchirograpsus americanus	American talon crab
Eucinostomus argenteus	Silver mojarra
Eucinostomus gula	Silver jenny
Eucinostomus harengulus	Tidewater mojarra
Eucinostomus jonesii	Slender mojarra

<i>Eucinostomus melanopterus</i>	Flagfin mojarra
<i>Eucratea loricata</i>	Feathery bryozoan
<i>Eucryphycus californicus</i>	Persimmon eelpout
<i>Eudistoma obscuratum</i>	NA
<i>Eugorgia rubens</i>	NA
<i>Eumesogrammus praecisus</i>	Fourline snakeblenny
<i>Eumicrotremus andriashevi</i>	Pimpled lumpsucker
<i>Eumicrotremus asperrimus</i>	NA
<i>Eumicrotremus barbatus</i>	NA
<i>Eumicrotremus gyrinops</i>	NA
<i>Eumicrotremus phrynoides</i>	Toad lumpsucker
<i>Eumicrotremus spinosus</i>	Atlantic spiny lumpsucker
<i>Eunoe senta</i>	Thorny scaleworm
<i>Euphosine multibranchiata</i>	Multi branched porcupine-worm
<i>Euphosynoplax clausa</i>	Craggy bathyal crab
<i>Eurymen gyrinus</i>	Smoothcheek sculpin
<i>Eurypanopeus depressus</i>	Flatback mud crab
<i>Eurypharynx pelecanoioides</i>	Pelican eel
<i>Euryplax nitida</i>	Glabrous broadface crab
<i>Eurytellina nitens</i>	NA
<i>Eurytium limosum</i>	Broadback mud crab
<i>Eusergestes similis</i>	Constant prawn
<i>Eusirus cuspidatus</i>	NA
<i>Euspira pallida</i>	Pale moonsnail
<i>Euthynnus alletteratus</i>	Little tunny
<i>Euthyonacta solida</i>	NA
<i>Euvola chazaliei</i>	NA
<i>Euvola laurentii</i>	NA
<i>Euvola raveneli</i>	Round rib scallop
<i>Evasterias retifera</i>	Western star
<i>Evasterias troschelii</i>	Mottled star
<i>Evermannichthys spongicola</i>	Sponge goby
<i>Exhippolysmata oplophoroides</i>	Redleg humpback shrimp
<i>Exilioidea rectirostris</i>	NA
<i>Facciolella gilbertii</i>	Dogface witch-eel
<i>Farrea beringiana</i>	NA
<i>Farrea convolvulus</i>	NA
<i>Fasciolaria tulipa</i>	True tulip
<i>Felimare picta</i>	Florida regal doris
<i>Felimare picta</i>	Regal sea goddess
<i>Ficus ficus</i>	Atlantic figsnail
<i>Ficus papyratia</i>	NA
<i>Fistularia petimba</i>	Red cornetfish
<i>Fistularia tabacaria</i>	Cornetfish

Florometra acririma	NA
Florometra asperrima	Rough feather star
Florometra serratissima	Common feather star
Flustrellidra corniculata	Spiny leather bryozoan
Foetorepus agassizii	Spotfin dragonet
Fowlerichthys ocellatus	Ocellated frogfish
Fowlerichthys radiosus	Singlespot frogfish
Frevillea hirsuta	Tufted broadface crab
Frieleia halli	NA
Fulguropsis plagosa	NA
Fulvia laevigata	Eggcockle
Funiculina quadrangularis	Tall sea pen
Gadella imberbis	Beardless codling
Gaidropsarus ensis	Threadfin rockling
Galathea rostrata	NA
Galeocerdo cuvier	Tiger shark
Galeorhinus galeus	Tope shark
Galiteuthis phyllura	NA
Gari californica	NA
Gasterosteus aculeatus	Three spined stickleback
Gastropsetta frontalis	Shrimp flounder
Gastropteron pacificum	Pacific stomach wing
Gastroptychus spinifer	NA
Gattyana ciliata	Ciliated scale worm
Gemophos tinctus	NA
Gempylus serpens	Snake mackerel
Geodia gibberosa	NA
Geodia mesotriaena	Armoured ball sponge
Geodia starki	NA
Geodinella lendenfeldi	NA
Gephyreaster swifti	Gunpowder star
Gephyroberyx darwinii	Darwin's slimehead
Gersemia rubiformis	Sea strawberry
Gibbonsia metzi	Striped kelpfish
Gigantactis microdontis	NA
Gigantactis vanhoeffeni	NA
Ginglymostoma cirratum	Nurse shark
Glebocarcinus oregonensis	Pygmy rock crab
Glycymeris septentrionalis	Northern bittersweet
Glyptocephalus stelleri	Korean flounder
Glyptolithodes cristatipes	Peruvian centolla
Glyptoplax smithii	Truncate rubble crab
Glyptoxanthus erosus	Eroded mud crab
Gnatholepis thompsoni	Goldspot goby

Gnathophis bracheatopos	Longeye conger
Gobiesox strumosus	Skilletfish
Gobioides broussonnetii	Violet goby
Gobionellus oceanicus	Highfin goby
Gobiosoma bosc	Naked goby
Gobiosoma ginsburgi	Seaboard goby
Gonatopsis borealis	Boreopacific gonate squid
Gonatus berryi	Berry armhook squid
Gonatus middendorffi	Shortarm gonate squid
Gonatus onyx	Clawed armhook squid
Gonatus pyros	Fiery armhook squid
Goniaster tessellatus	Giant sunfish
Gonostoma atlanticum	Atlantic fangjaw
Gorgonocephalus arcticus	Northern basket star
Grandicrepidula grandis	Great slippersnail
Graneledone boreopacifica	NA
Grimothea planipes	Pelagic red crab
Grimothea quadripina	Pinch bug
Guyanacaris hirsutimana	NA
Gymnachirus melas	Naked sole
Gymnachirus nudus	Flabby sole
Gymnachirus texae	Fringed sole
Gymnelus hemifasciatus	Halfbarred pout
Gymnelus viridis	Fish doctor
Gymnocanthus detrisus	NA
Gymnocanthus tricuspis	Arctic staghorn sculpin
Gymnothorax kolpos	Blacktail moray
Gymnothorax nigromarginatus	Blackedge moray
Gymnura altavela	Spiny butterfly ray
Habevolutopsius attenuatus	Threaded whelk
Habevolutopsius hirasei	NA
Hadroconus altus	NA
Haemulon plumierii	White grunt
Haemulon sciurus	Bluestriped grunt
Haemulon striatum	Striped grunt
Halargyreus johnsonii	Slender codling
Halicardia perplicata	NA
Halichoeres bathyphilus	Greenband wrasse
Halichoeres bivittatus	Slippery dick
Halichoeres caudalis	Painted wrasse
Halichoerus grypus	Grey seal
Halichondria (Eumastia) sitiens	Green tinged sponge
Halichondria (Halichondria) oblonga	NA
Halichondria (Halichondria) panicea	Breadcrumb sponge

<i>Haliclona digitata</i>	NA
<i>Haliphron atlanticus</i>	Seven-arm octopus
<i>Halocynthia dumosa</i>	NA
<i>Halocynthia igaboja</i>	Bristly tunicate
<i>Halosydna brevisetosa</i>	Short scaled worm
<i>Hamatoscalpellum columbianum</i>	NA
<i>Haminoea succinea</i>	Amber glassy-bubble
<i>Hapalogaster grebnitzkii</i>	Soft crab
<i>Harriotta raleighana</i>	Pacific longnose chimaera
<i>Hedgpethia dofleini</i>	NA
<i>Helicolenus dactylopterus</i>	Blackbelly rosefish
<i>Heliometra glacialis</i>	NA
<i>Hemanthias aureorubens</i>	Streamer bass
<i>Hemanthias leptus</i>	Longtail bass
<i>Hemicaranx amblyrhynchus</i>	Bluntnose jack
<i>Hemilepidotus gilberti</i>	Gilbert's irish lord
<i>Hemilepidotus hemilepidotus</i>	Red irish lord
<i>Hemilepidotus spinosus</i>	Brown irish lord
<i>Hemilepidotus zapus</i>	Longfin irish lord
<i>Hemipolygona mcgintyi</i>	Mcginty's latirus
<i>Hemiramphus balao</i>	Balao halfbeak
<i>Hemisquilla californiensis</i>	Blueleg mantis shrimp
<i>Hemithiris psittacea</i>	NA
<i>Henricia aspera</i>	Sandpaper henricia
<i>Henricia asthenactis</i>	NA
<i>Henricia clarki</i>	NA
<i>Henricia dyscrita</i>	NA
<i>Henricia leviuscula</i>	Pacific blood star
<i>Henricia leviuscula leviuscula</i>	NA
<i>Henricia leviuscula spiculifera</i>	NA
<i>Henricia lineata</i>	NA
<i>Henricia longispina</i>	Long spined henricia
<i>Henricia longispina aleutica</i>	NA
<i>Henricia rhytisma</i>	NA
<i>Henricia sanguinolenta</i>	Blood sea star
<i>Henricia tumida</i>	Fat henricia
<i>Hepatus princeps</i>	NA
<i>Hepatus pudibundus</i>	Flecked box crab
<i>Heptacarpus flexus</i>	Slenderbeak coastal shrimp
<i>Heptacarpus maxillipes</i>	Aleutian coastal shrimp
<i>Hermisenda crassicornis</i>	Hermisenda
<i>Hermodice carunculata</i>	Bearded fireworms
<i>Hesperibalanus hesperius</i>	Crab barnacle
<i>Heterochone calyx</i>	Fingered goblet sponge

Heterochone tenera	Tender glass sponge
Heterocrypta occidentalis	Sandflat elbow crab
Heterodontus francisci	Horn shark
Heteropolypus ritteri	Ritter's soft coral
Heteropriacanthus cruentatus	Glasseye snapper
Hexagrammos decagrammus	Kelp greenling
Hexagrammos lagocephalus	Rock greenling
Hexagrammos octogrammus	Masked greenling
Hexanchus griseus	Bluntnose sixgill shark
Hexapanopeus angustifrons	Smooth mud crab
Hexapanopeus paulensis	Knobbed mud crab
Hexaplex fulvescens	Giant eastern murex
Hiatella arctica	Arctic hiatella
Hippasteria heathi	Heath's spiny star
Hippasteria leiopelta	NA
Hippasteria lepidonotus	Pebbly star
Hippocampus erectus	Lined seahorse
Hippocampus reidi	Longsnout seahorse
Hippocampus zosterae	Dwarf seahorse
Hippoglossina stomata	Bigmouth flounder
Hippoporina insculpta	NA
Hirundichthys rondeletii	Black wing flyingfish
Histioteuthis heteropsis	NA
Histrion histrio	Sargassumfish
Holacanthus bermudensis	Blue angelfish
Holocentrus adscensionis	Squirrelfish
Holothuria (Theelothuria) princeps	NA
Holothuria (Vaneyothuria) lentiginosa	NA
Homola barbata	Homole crab
Hoplostethus mediterraneus	Mediterranean slimehead
Hoplostethus occidentalis	Atlantic roughy
Hoplunnis diomediana	Blacktail pikeconger
Hoplunnis macrura	Freckled pike-conger
Hoplunnis tenuis	Spotted pike-conger
Hormathiidae sp. A	NA
Howella brodiei	Pelagic basslet
Howella sherborni	Sherborn's pelagic bass
Humilaria kennerleyi	Kennerley venus
Hygophum reinhardtii	Reinhardt's lantern fish
Hymeniacidon assimilis	NA
Hymenodiscus exilis	NA
Hyperoglyphe perciformis	Barrelfish
Hyperprosopon anale	Spotfin surfperch
Hyleurochilus bermudensis	Barred blenny

<i>Hypoleurochilus geminatus</i>	Crested blenny
<i>Hypoconcha arcuata</i>	Granulate shellback crab
<i>Hypoconcha parasitica</i>	Rough shellback crab
<i>Hypoconcha spinosissima</i>	Spiny shellback crab
<i>Hypomesus pretiosus</i>	Surf smelt
<i>Hypoplectrus puella</i>	Barred hamlet
<i>Hypoplectrus unicolor</i>	Butter hamlet
<i>Hyporhamphus meeki</i>	American halfbeak
<i>Hyporhamphus unifasciatus</i>	Common halfbeak
<i>Hyporthodus flavolimbatus</i>	Yellowedge grouper
<i>Hyporthodus nigritus</i>	Warsaw grouper
<i>Hyporthodus niveatus</i>	Snowy grouper
<i>Hypsagonus quadricornis</i>	Fourhorn poacher
<i>Hypsoblennius hentz</i>	Feather blenny
<i>Icelinus borealis</i>	Northern sculpin
<i>Icelinus burchami</i>	Dusky sculpin
<i>Icelinus fimbriatus</i>	Fringed sculpin
<i>Icelinus oculatus</i>	Frogmouth sculpin
<i>Icelinus tenuis</i>	Spotfin sculpin
<i>Icelus canaliculatus</i>	Blacknose sculpin
<i>Icelus euryops</i>	NA
<i>Icelus spatula</i>	Spatulate sculpin
<i>Icelus uncinalis</i>	NA
<i>Icichthys lockingtoni</i>	Medusafish
<i>Icosteus aenigmaticus</i>	Ragfish
<i>Idiacanthus antrostomus</i>	Pacific blackdragon
<i>Iliacantha liodactylus</i>	NA
<i>Iliacantha sparsa</i>	Shouldered purse crab
<i>Iliacantha subglobosa</i>	Longfinger purse crab
<i>Inflatella globosa</i>	NA
<i>Iridonida angulata</i>	NA
<i>Iridonida irrasa</i>	NA
<i>Iridonida pusilla</i>	Common squat lobster
<i>Iridonida spinifrons</i>	NA
<i>Isodictya palmata</i>	Common palmate sponge
<i>Isodictya rigida</i>	Orange finger sponge
<i>Isostichopus badionotus</i>	Chocolate chip sea cucumber
<i>Isurus oxyrinchus</i>	Shortfin mako
<i>Janetogalatea californiensis</i>	NA
<i>Japelion aleutica</i>	NA
<i>Japetella diaphana</i>	Diaphanous pelagic octopod
<i>Javania borealis</i>	NA
<i>Javania cailleti</i>	Caillet's stony coral
<i>Jordania zonope</i>	Longfin sculpin

<i>Kali indica</i>	NA
<i>Kali kerberti</i>	NA
<i>Kalolophus speciosus</i>	Beautiful crassatella
<i>Kathetostoma averruncus</i>	Smooth stargazer
<i>Keenocardium blandum</i>	Low rib cockle
<i>Keenocardium californiense californiense</i>	Aleutian cockle
<i>Kellia laperousii</i>	Suborbicular kellyclam
<i>Kyphosus incisor</i>	Yellow sea chub
<i>Labrisomus nuchipinnis</i>	Hairy blenny
<i>Lachnolaimus maximus</i>	Hogfish
<i>Lactophrys trigonus</i>	Buffalo trunkfish
<i>Laemonema barbatulum</i>	Shortbeard codling
<i>Laevicardium mortoni</i>	Yellow eggcockle
<i>Laevicardium pictum</i>	Painted eggcockle
<i>Lamellaria perspicua</i>	Transparent lamellaria
<i>Lamna ditropis</i>	Salmon shark
<i>Lampanyctus jordani</i>	Brokenline lanternfish
<i>Lampanyctus regalis</i>	Pinpoint lampfish
<i>Lampanyctus ritteri</i>	Broadfin lampfish
<i>Lampetra ayresii</i>	Western river lamprey
<i>Lamprogrammus niger</i>	NA
<i>Laqueus californianus</i>	California lamp shell
<i>Latisipho aphelus</i>	Oblique whelk
<i>Latisipho hallii</i>	Shrew whelk
<i>Latisipho hypolispus</i>	NA
<i>Latisipho jordani</i>	NA
<i>Latrunculia (Uniannulata) oparinae</i>	NA
<i>Leander tenuicornis</i>	Brown grass shrimp
<i>Lebbeus grandimanus</i>	Candy striped shrimp
<i>Lebbeus groenlandicus</i>	Spiny lebbeid
<i>Lebbeus polaris</i>	Polar lebbeid
<i>Lebbeus washingtonianus</i>	Slope lebbeid
<i>Leieschara subgracilis</i>	NA
<i>Leiolambrus granulatus</i>	NA
<i>Leodia sexiesperforata</i>	Six holed keyhole urchin
<i>Leodice valens</i>	White banded bobbit worm
<i>Leopecten diegensis</i>	San diego scallop
<i>Lepidochelys kempii</i>	Kemp's ridley turtle
<i>Lepidocybium flavobrunneum</i>	Escolar
<i>Lepidopus caudatus</i>	Silver scabbardfish
<i>Lepidopus fitchi</i>	Pacific scabbardfish
<i>Lepophidium entomelan</i>	Blackthroat cusk-eel
<i>Lepophidium jeannae</i>	Mottled cusk-eel
<i>Leptagonus decagonus</i>	Atlantic poacher

Leptasterias (Hexasterias) camtschatica	Kamchatha six-rayed star
Leptasterias (Hexasterias) coei	Coe's six-rayed star
Leptasterias coei truculenta	NA
Leptasterias hexactis	Delicate six-rayed star
Leptasterias hylodes	Aleutian star
Leptasterias katharinae	NA
Leptasterias stolacantha	Rough skirted star
Leptoclinus maculatus	Daubed shanny
Leptocottus armatus	Pacific staghorn sculpin
Leptogorgia chilensis	Red gorgonian
Leptychaster anomalus	Pentagonal sand star
Leptychaster arcticus	Arctic sand star
Leptychaster pacificus	Pale star
Lestidiops ringens	Slender barracudina
Letharchus velifer	Sailfin eel
Lethotremus muticus	Docked snailfish
Leucandra heathi	Bristly case sponge
Leucandra tuba	NA
Leucoraja lentiginosa	Freckled skate
Leukoma staminea	Pacific littleneck
Leuroglossus schmidti	Northern smoothtongue
Leuroglossus stilbius	California smoothtongue
Libinia dubia	Longnose spider crab
Libinia emarginata	Portly spider crab
Lillipathes lillei	NA
Limaria pellucida	NA
Limneria prolongata	Elongate lamellaria
Limneria undata	Wavy lamellaria
Limopsis akutanica	Akutan limops
Limopsis vaginata	Vaginate limops
Lindafulgur candelabrum	Splendid whelk
Lindafulgur lyonsi	NA
Lindapecten muscosus	Mossy scallop
Liopsetta glacialis	Arctic flounder
Liparis atlanticus	Atlantic seasnail
Liparis bathyarcticus	Nebulous snailfish
Liparis bristolensis	Bristol snailfish
Liparis callyodon	Spotted snailfish
Liparis dennyi	Marbled snailfish
Liparis fucensis	Slipskin snailfish
Liparis inquilinus	Inquiline snailfish
Liparis marmoratus	Festive snailfish
Liparis ochotensis	NA
Liparis pulchellus	Showy snailfish

<i>Liparis tunicatus</i>	Kelp snailfish
<i>Lipariscus nanus</i>	Pygmy snailfish
<i>Lipolagus ochotensis</i>	Eared blacksmelt
<i>Lirophora latilirata</i>	NA
<i>Lirophora obliterated</i>	Clench venus
<i>Lissocrangon stylirostris</i>	Smooth bay shrimp
<i>Lithodes couesi</i>	Scarlet king crab
<i>Lithodes maja</i>	Norway king crab
<i>Lithophaga antillarum</i>	Giant datemussel
<i>Lithopoma americanum</i>	American star snail
<i>Lithopoma phoebium</i>	NA
<i>Litoscalpellum ursum</i>	NA
<i>Livoneca ovalis</i>	NA
<i>Lobopilumnus agassizii</i>	Areolated hairy crab
<i>Lobotes surinamensis</i>	Tripletail
<i>Lonchopisthus micrognathus</i>	Swordtail jawfish
<i>Lophaster furcilliger</i>	Pink crested star
<i>Lophiodes reticulatus</i>	Reticulated goosfish
<i>Lophius gastrophysus</i>	Blackfin goosfish
<i>Lophogastrida sp. A</i>	Opossum shrimps
<i>Lopholatilus chamaeleonticeps</i>	Great northern tilefish
<i>Lovenia cordiformis</i>	Sea porcupine
<i>Loxorhynchus crispatus</i>	Moss crab
<i>Loxorhynchus grandis</i>	Sheep crab
<i>Lucinoma annulata</i>	Ringed lucine
<i>Luidia alternata</i>	Banded sea star
<i>Luidia asthenosoma</i>	Fringed sand star
<i>Luidia lawrencei</i>	NA
<i>Luidia ludwigi scotti</i>	NA
<i>Luidia sagamina aciculata</i>	NA
<i>Luidia senegalensis</i>	Nine armed sea star
<i>Lumpenella longirostris</i>	Longsnout prickleback
<i>Lumpenus lampraeformis</i>	Snakeblenny
<i>Lumpenus sagitta</i>	Snake prickleback
<i>Lunarca ovalis</i>	Blood ark
<i>Lutjanus analis</i>	Mutton snapper
<i>Lutjanus vivanus</i>	Silk snapper
<i>Lycenchelys camchatica</i>	NA
<i>Lycenchelys jordani</i>	Shortjaw eelpout
<i>Lycenchelys verrillii</i>	Wolf eelpout
<i>Lycodapus dermatinus</i>	NA
<i>Lycodapus endemoscotus</i>	Deepwater slipskin
<i>Lycodapus fierasfer</i>	Blackmouth eelpout
<i>Lycodapus mandibularis</i>	Pallid eelpout

Lycodapus parviceps	Smallhead eelpout
Lycodes akuugun	NA
Lycodes beringi	Bering eelpout
Lycodes concolor	Ebony eelpout
Lycodes mucosus	Saddled eelpout
Lycodes polaris	Canadian eelpout
Lyconema barbatum	Bearded eelpout
Lysiosquilla campechiensis	NA
Lysiosquilla scabricauda	Smooth mantis shrimp
Lysmata wurdemanni	Peppermint shrimp
Lytechinus pictus	White sea urchin
Lytechinus variegatus	Variegated sea urchin
Macoma brota	Heavy macoma
Macoma calcarea	Chalky macoma
Macoma inquinata	Pointed macoma
Macoma nasuta	Bent nose macoma
Macoploma pulleyi	Delta macoma
Macoploma yoldiformis	Yoldia macoma
Macrocoeloma camptocerum	Florida decorator crab
Macrocoeloma eutheca	NA
Macrocoeloma nodipes	NA
Macrocoeloma trispinosum	Spongy decorator crab
Macrocypraea cervus	NA
Macropinna microstoma	Barreleye
Macroramphosus scolopax	Longspine snipefish
Macroregonia macrochira	Long clawed spider crab
Macrostrombus costatus	Milk conch
Macrourus berglax	Roughhead grenadier
Magnisudis atlantica	Duckbill barracudina
Maguimithrax spinosissimus	Channel clinging crab
Malacocephalus laevis	Softhead grenadier
Malacocephalus occidentalis	Western softhead grenadier
Malacocottus aleuticus	Whitetail sculpin
Malacocottus kincaidi	Blackfin sculpin
Malleus candeanus	Caribbean hammer-oyster
Mangelia carlottae	NA
Manucomplanus ungulatus	NA
Margarites costalis	Boreal rosy margarite
Margarites pupillus	Little margarite
Maulisia maui	Maul's searsid
Maurolicus weitzmani	Atlantic pearlside
Mediaster tenellus	Delicate star
Megalocottus platycephalus	Belligerent sculpin
Megalops atlanticus	Tarpon

Megangulus luteus	Alaskan great tellin
Megapitaria maculata	Calico clam
Megasurcula carpenteriana	NA
Megayoldia thraciaeformis	Broad yoldia
Meiosquilla quadridens	NA
Melamphaes lugubris	Highsnout melamphid
Melanocetus johnsonii	Humpback anglerfish
Melanonus zugmayeri	Arrowtail
Melanostigma atlanticum	Atlantic soft pout
Melanostigma pammelas	Midwater eelpout
Mellita quinquiesperforata	Keyhole sand dollar
Membras martinica	Rough silverside
Menidia beryllina	Inland silverside
Menidia menidia	Atlantic silverside
Menippe adina	Gulf stone crab
Menippe mercenaria	Florida stone crab
Menticirrhus saxatilis	Northern kingfish
Meoma ventricosa	Red heart urchin
Mesocentrotus franciscanus	Red sea urchin
Mesopenaeus tropicalis	Salmon shrimp
Metacarcinus anthonyi	Yellow rock crab
Metacarcinus gracilis	Graceful rock crab
Metacrangon variabilis	Deepsea spinyhead
Metoporphaphis calcarata	False arrow crab
Metridium senile	Clonal plumose anemone
Microcottus sellaris	Brightbelly sculpin
Microporina articulata	NA
Microspathodon chrysurus	Yellowtail damselfish
Minyorhyncha crassa	Inflated spiny crab
Mithraculus forceps	Red ridged clinging crab
Mithrax hispidus	Coral clinging crab
Mithrax pleuracanthus	Shaggy clinging crab
Mobula hypostoma	Devil ray
Modiolus americanus	Tulip mussel
Modiolus modiolus	Northern horse mussel
Moira atropos	NA
Mola mola	Ocean sunfish
Molgula griffithsii	NA
Molgula occidentalis	NA
Molgula retortiformis	Sea clod
Moloha faxoni	Pacific carrier crab
Molpadia barbouri	NA
Molpadia cubana	NA
Monanchora alaskensis	Alaskan horny sponge

Monolene sessilicauda	Deepwater flounder
Monoplex parthenopeus	Giant triton
Mopalia egretta	Egret plumped mopalia
Mopalia swanii	Swan's mopalia
Moreiradromia antillensis	Hairy sponge crab
Morone saxatilis	Striped bass
Mugil cephalus	Flathead grey mullet
Mugil curema	White mullet
Mulloidichthys martinicus	Yellow goatfish
Munidopsis hystrix	NA
Munidopsis quadrata	Four-cornered squat lobster
Munidopsis robusta	NA
Munidopsis sp. A	NA
Muraena retifera	Reticulate moray
Muriceides nigra	NA
Musculus discors	Discordant mussel
Musculus niger	Black mussel
Mustelus californicus	Gray smooth-hound
Mustelus henlei	Brown smooth-hound
Mustelus lunulatus	Sicklefin smooth-hound
Mustelus norrisi	Narrowfin smooth-hound
Mustelus sinuatus	Gulf smooth-hound
Muusoctopus leioderma	Smoothskin octopus
Muusoctopus oregonensis	NA
Muusoctopus sibiricus	NA
Mya arenaria	Softshell clam
Mya baxteri	NA
Mya elegans	NA
Mya pseudoarenaria	False softshell
Mya truncata	Truncate softshell
Mycale (Aegogropila) adhaerens	Smooth scallop sponge
Mycale (Carmia) carlilei	NA
Mycale (Mycale) tylota	NA
Mycteroperca microlepis	Gag
Mycteroperca phenax	Scamp
Mycteroperca venenosa	Yellowfin grouper
Myctophum punctatum	Spotted lanternfish
Myliobatis californica	Bat eagle ray
Myliobatis goodei	Southern eagle ray
Myoxocephalus aeneus	Grubby
Myoxocephalus quadricornis	Fourhorn sculpin
Myoxocephalus scorpioides	Arctic sculpin
Myriapora orientalis	NA
Myrichthys ocellatus	Goldpotted eel

<i>Myriotrochus rinkii</i>	Rink's footless sea cucumber
<i>Myrophis punctatus</i>	Speckled worm-eel
<i>Myropsis quinquespinosa</i>	Fivespine purse crab
<i>Mytilus californianus</i>	California mussel
<i>Mytilus edulis</i>	Blue mussel
<i>Mytilus trossulus</i>	Foolish mussel
<i>Myxilla (Ectyomyxilla) parasitica</i>	Parasitic horny sponge
<i>Myxilla lacunosa</i>	Sulphur horny sponge
<i>Myxine glutinosa</i>	Atlantic hagfish
<i>Myxoderma sacculatum</i>	Giant slimy star
<i>Nalbantichthys elongatus</i>	NA
<i>Nannobranchium regale</i>	Pinpoint lampfish
<i>Nanoplax xanthiformis</i>	Rough squareback crab
<i>Nansenia candida</i>	Bluethroat argentine
<i>Narcine bancroftii</i>	Lesser electric ray
<i>Narcine brasiliensis</i>	Brazilian electric ray
<i>Narcissia trigonaria</i>	NA
<i>Naria spurca</i>	NA
<i>Naticarius canrena</i>	Colorful moonsnail
<i>Naucrates ductor</i>	Pilotfish
<i>Nautichthys oculofasciatus</i>	Sailfin sculpin
<i>Nautichthys pribilovius</i>	Eyeshade sculpin
<i>Nautichthys robustus</i>	Shortmast sculpin
<i>Nearchaster pedicellaris</i>	Pedicillate fragile star
<i>Nearchaster variabilis</i>	Variable fragile star
<i>Nectoliparis pelagicus</i>	Tadpole snailfish
<i>Nemausa acuticornis</i>	Sharphorn clinging crab
<i>Nemichthys larseni</i>	Pale snipe eel
<i>Nemichthys scolopaceus</i>	Slender snipe eel
<i>Neoberingius frielei</i>	NA
<i>Neobythites gilli</i>	Twospot brotula
<i>Neoclinus blanchardi</i>	Sarcastic fringehead
<i>Neoconger mucronatus</i>	Ridged eel
<i>Neocrangon abyssorum</i>	Abyssal crangon
<i>Neocrangon communis</i>	Gray shrimp
<i>Neopinnula americanus</i>	American sackfish
<i>Neognathophausia gigas</i>	NA
<i>Neognathophausia ingens</i>	Giant red mysid
<i>Neognathophausia sp. A</i>	NA
<i>Neogonodactylus bredini</i>	Split-thumb mantis shrimp
<i>Neogonodactylus torus</i>	NA
<i>Neophiphinae coronata</i>	Crowned hairysnail
<i>Neolithodes diomedea</i>	NA
<i>Neomenia efgamatoi</i>	NA

Neomenia yamamotoi	NA
Neomerinthe hemingwayi	Spinycheek scorpionfish
Neoterebra dislocata	Eastern auger
Neotrypaea californiensis	Bay ghost shrimp
Neoturris brevicornis	Blob top jelly
Nephropsis aculeata	Florida lobsterette
Neptunea alexeyevi	NA
Neptunea gyroscopoides	NA
Neptunea humboldtiana	NA
Neptunea insularis	NA
Neptunea middendorffii	NA
Neptunea phoenicea	Phoenician whelk
Neptunea smirnia	Smirnia whelk
Neptunea stilesi	NA
Neptunea tabulata	Tabled whelk
Nerocila acuminata	NA
Nesiarchus nasutus	Black gemfish
Neverita duplicata	Shark eye
Neverita lewisii	Lewis's moonsnail
Nezumia bairdii	Marlin spike grenadier
Nezumia liolepis	Smooth grenadier
Nibilia antilocapra	Shorthorn spiny crab
Nicholsina usta	Emerald parrotfish
Niso aeglees	Brown line niso
Nodipecten fragosus	NA
Nodipecten nodosus	Lion's paw
Nodulotrophon coronatus	Crown trophon
Noetia ponderosa	Ponderous ark
Nothria conchylega	NA
Notostomum cyclostomum	NA
Notostomus japonicus	Japanese spinyridge
Nucella lamellosa	Frilled dogwinkle
Nuculana pernula	Northern nutclam
Nudibranchia sp. A	Sea slug
Oceanactis diomedea	NA
Ocnus pygmaeus	NA
Octopus briareus	Caribbean reef octopus
Octopus californicus	North pacific bigeye octopus
Octopus joubini	Atlantic pygmy octopus
Octopus rubescens	East pacific red octopus
Octopus vulgaris	Common octopus
Oculina diffusa	Diffuse ivory bush coral
Ocyurus chrysurus	Yellowtail snapper
Odontaster crassus	NA

<i>Odontohenricia ahearnae</i>	NA
<i>Odontohenricia fisheri</i>	Fisher's toothed henricia
<i>Odontopyxis trispinosa</i>	Pygmy poacher
<i>Odontoscion dentex</i>	Reef croaker
<i>Ogcocephalus corniger</i>	Longnose batfish
<i>Ogcocephalus cubifrons</i>	NA
<i>Ogcocephalus nasutus</i>	Shortnose batfish
<i>Ogcocephalus pantostictus</i>	Spotted batfish
<i>Ogcocephalus parvus</i>	Roughback batfish
<i>Ogcocephalus radiatus</i>	Polka-dot batfish
<i>Ogcocephalus rostellum</i>	Palefin batfish
<i>Ogcocephalus vespertilio</i>	Seadevil
<i>Okutania anonycha</i>	Smallfin gonate squid
<i>Oligoplites saurus</i>	Leatherjacket
<i>Oliva fulgurator</i>	NA
<i>Oliva sayana</i>	Lettered olive
<i>Oliva scripta</i>	Caribbean olive
<i>Ommastrephes bartramii</i>	Neon flying squid
<i>Onchidiopsis brevipes</i>	Spherical blob snail
<i>Onchidiopsis clarki</i>	NA
<i>Onchidiopsis glacialis</i>	Icy lamellaria
<i>Onchidoris bilamellata</i>	Barnacle eating onchidoris
<i>Oncorhynchus gorbuscha</i>	Pink salmon
<i>Oncorhynchus keta</i>	Chum salmon
<i>Oncorhynchus kisutch</i>	Coho salmon
<i>Oncorhynchus mykiss</i>	Rainbow trout
<i>Oncorhynchus nerka</i>	Sockeye salmon
<i>Oneirodes acanthias</i>	Spiny dreamer
<i>Oneirodes bulbosus</i>	Bulb fish
<i>Oneirodes thompsoni</i>	Alaska dreamer
<i>Onychoteuthis banksii</i>	Clawed calamary squid
<i>Onychoteuthis banksii</i>	Hooked squid
<i>Onychoteuthis borealijaponica</i>	Boreal clubhook squid
<i>Onykia robusta</i>	Robust clubhook squid
<i>Ophiacantha diplasia</i>	NA
<i>Ophiacantha enneactis</i>	NA
<i>Ophichthus cruentifer</i>	Margined snake eel
<i>Ophichthus gomesii</i>	Shrimp eel
<i>Ophichthus puncticeps</i>	Palespotted eel
<i>Ophichthus rex</i>	King snake eel
<i>Ophidion antipholus</i>	Longnose cusk-eel
<i>Ophidion dromio</i>	Shorthead cusk-eel
<i>Ophidion grayi</i>	Blotched cusk-eel
<i>Ophidion josephi</i>	Crested cusk-eel

<i>Ophidion marginatum</i>	Striped cusk-eel
<i>Ophidion scrippsae</i>	Basketweave cusk-eel
<i>Ophidion selenops</i>	Mooneye cusk-eel
<i>Ophidion welshi</i>	Crested cusk-eel
<i>Ophioderma appressum</i>	Harlequin brittle star
<i>Ophioderma brevispinum</i>	NA
<i>Ophioderma devaneyi</i>	NA
<i>Ophiomusa lymani</i>	NA
<i>Ophiomyxa flaccida</i>	Limy brittle star
<i>Ophiopholis japonica</i>	NA
<i>Ophiopholis kennerlyi</i>	NA
<i>Ophiopholis longispina</i>	NA
<i>Ophiophthalmus cataleimmoidus</i>	NA
<i>Ophiophthalmus normani</i>	NA
<i>Ophioplocus esmarki</i>	NA
<i>Ophiophthalmus normani</i>	NA
<i>Ophioscolex corynetes</i>	NA
<i>Ophiosemmotes brevispina</i>	NA
<i>Ophiosemmotes pachybactra</i>	NA
<i>Ophiosemmotes tylota</i>	NA
<i>Ophiosphalma jolliense</i>	Brittle star sp.
<i>Ophiostigma isocanthum</i>	NA
<i>Ophiothrix (Ophiothrix) angulata</i>	Angular brittle star
<i>Ophiothrix (Ophiothrix) spiculata</i>	Pacific spiny brittlestar
<i>Ophiura cryptolepis</i>	NA
<i>Ophiura luetkenii</i>	Gray brittle star
<i>Ophiura quadrispina</i>	NA
<i>Opisthoteuthis albatrossi</i>	NA
<i>Opsanus tau</i>	Oyster toadfish
<i>Oreaster reticulatus</i>	Cushioned star
<i>Oregonia bifurca</i>	Splitnose crab
<i>Orthasterias koehlerii</i>	Rainbow star
<i>Osachila semilevis</i>	Thinlip jewelbox crab
<i>Oscarella lobularis</i>	Bubble oscar sponge
<i>Ostichthys trachypoma</i>	Bigeye soldierfish
<i>Ostrea equestris</i>	Crested oyster
<i>Ostrea permollis</i>	NA
<i>Otophidium dormitator</i>	Sleeper cusk-eel
<i>Otophidium omostigma</i>	Polka-dot cusk-eel
<i>Otukaia beringensis</i>	NA
<i>Ovalipes floridanus</i>	Florida lady crab
<i>Oxylebius pictus</i>	Painted greenling
<i>Oxyporhamphus micropterus</i>	Bigwing halfbeak
<i>Pachycheles ackleianus</i>	Red reef porcelain crab

<i>Pachycheles rugimanus</i>	Sculptured porcelain crab
<i>Paelopatides confundens</i>	Disguised sea cucumber
<i>Paguristes lymani</i>	NA
<i>Paguristes sericeus</i>	Blue-eyed hermit
<i>Paguristes tortugae</i>	Band-eye hermit
<i>Paguristes triangulatus</i>	NA
<i>Paguristes turgidus</i>	Orange hairy hermit
<i>Pagurus annulipes</i>	NA
<i>Pagurus armatus</i>	Armed hermit
<i>Pagurus beringanus</i>	Bering hermit
<i>Pagurus bullisi</i>	NA
<i>Pagurus carolinensis</i>	Wormreef hermit
<i>Pagurus caurinus</i>	Greenmark hermit
<i>Pagurus confragosus</i>	Knobbyhand hermit
<i>Pagurus cornutus</i>	Hornyhand hermit
<i>Pagurus dalli</i>	Whiteknee hermit
<i>Pagurus defensus</i>	NA
<i>Pagurus hirsutiusculus</i>	Hairy hermit
<i>Pagurus impressus</i>	Palmate hermit crab
<i>Pagurus kennerlyi</i>	Bluespine hermit
<i>Pagurus longicarpus</i>	Longwrist hermit crab
<i>Pagurus samuelis</i>	Blueband hermit
<i>Pagurus setosus</i>	Setose hermit
<i>Pagurus stevensae</i>	Stevens hermit
<i>Pagurus tanneri</i>	Longhand hermit
<i>Pagurus townsendi</i>	NA
<i>Palicus affinis</i>	Antillian stilt crab
<i>Palicus alternatus</i>	Labile stilt crab
<i>Palicus faxoni</i>	Finned stilt crab
<i>Pandalus aleuticus</i>	Aleutian bigeye
<i>Pandalus amplus</i>	Deepwater bigeye
<i>Pandalus danae</i>	Dock shrimp
<i>Pandalus hypsinotus</i>	Coonstriped shrimp
<i>Pandalus lamelligerus</i>	NA
<i>Pandalus longirostris</i>	Northern longbeak
<i>Pandalus montagui</i>	Aesop shrimp
<i>Pandalus stenolepis</i>	Roughpatch shrimp
<i>Pannychia moseleyi</i>	NA
<i>Panomya norvegica</i>	Arctic roughmya
<i>Panopea abrupta</i>	Pacific geoduck clam
<i>Panopea generosa</i>	Pacific geoduck
<i>Panopeus herbstii</i>	Atlantic mud crab
<i>Panopeus occidentalis</i>	Furrowed mud crab
<i>Panulirus argus</i>	Caribbean spiny lobster

<i>Panulirus interruptus</i>	Mexican spiny lobster
<i>Parablennius marmoratus</i>	Seaweed blenny
<i>Parabornia squillina</i>	Squillaclam
<i>Paracaudina chilensis obesacauda</i>	NA
<i>Paraclinus marmoratus</i>	Marbled blenny
<i>Paraconger caudilimbatus</i>	Margintail conger
<i>Paracrangon echinata</i>	Horned shrimp
<i>Paractaea rufopunctata</i>	Nodose rubble crab
<i>Paragorgia arborea</i>	Bubblegum coral
<i>Paragorgia pacifica</i>	Bubblegum coral
<i>Parahollardia lineata</i>	Jambeau
<i>Paralabrax nebulifer</i>	Barred sand bass
<i>Paralepis coregonoides</i>	Sharpchin barracudina
<i>Paralichthys albigutta</i>	Gulf flounder
<i>Paralichthys californicus</i>	California flounder
<i>Paralichthys squamilentus</i>	Broad flounder
<i>Paraliparis adustus</i>	NA
<i>Paraliparis albeolus</i>	NA
<i>Paraliparis cephalus</i>	Swellhead snailfish
<i>Paraliparis dactylosus</i>	Red snailfish
<i>Paraliparis deani</i>	Prickly snailfish
<i>Paraliparis holomelas</i>	Ebony snailfish
<i>Paraliparis pectoralis</i>	NA
<i>Paraliparis rosaceus</i>	Pink snailfish
<i>Paraliparis ulochir</i>	Broadfin snailfish
<i>Paralithodes brevipes</i>	Brown king crab
<i>Paralithodes californiensis</i>	California king crab
<i>Paralithodes rathbuni</i>	Forknose king crab
<i>Paralomis manningi</i>	NA
<i>Paralomis multispina</i>	NA
<i>Paranthus rapiformis</i>	Sea onion
<i>Parapasiphae sulcatifrons</i>	Grooveback shrimp
<i>Parapenaeus americanus</i>	NA
<i>Parapenaeus politus</i>	Rose shrimp
<i>Paraphelliactis pabista</i>	NA
<i>Parascombrops spinosus</i>	Keelcheek bass
<i>Parasquilla coccinea</i>	NA
<i>Parasudis truculenta</i>	Longnose greeneye
<i>Pareques acuminatus</i>	High hat
<i>Pareques iwamotoi</i>	Blackbar drum
<i>Pareques umbrosus</i>	Cubbyu
<i>Parexocoetus brachypterus</i>	Sailfin flyingfish
<i>Paricelinus hopliticus</i>	Thornback sculpin
<i>Paroncheilus affinis</i>	Bigtooth cardinalfish

Parthenope agona	Elbow crab
Parvamussium alaskense	Alaska glass-scallop
Pasiphaea multidentata	Pink glass shrimp
Patinopecten caurinus	Weathervane scallop
Patiria miniata	Bat star
Pedicellaster magister	Soft orange star
Pelia mutica	Cryptic teardrop crab
Peltodoris lentiginosa	Mottled pale sea-lemon
Peltodoris nobilis	Pacific sea-lemon
Penaeopsis serrata	Megalops shrimp
Penaeus monodon	Giant tiger prawn
Penaeus vannamei	Whiteleg shrimp
Pennatula phosphorea	Phosphorescent sea pen
Pentamera lissoplaca	NA
Pentamera pulcherrima	Splendid sea cucumber
Peprilus simillimus	Pacific pompano
Percis japonica	Dragon poacher
Peribolaster biserialis	Fuzzy star
Periphylla periphylla	Merchant cap
Peristedion gracile	Slender searobin
Peristedion miniatum	Armored searobin
Persephona crinita	Pink purse crab
Petrasma pervernicosa	NA
Petrochirus diogenes	Giant hermit
Petrolisthes armatus	Green porcelain crab
Petrolisthes galathinus	Banded porcelain crab
Petromyzon marinus	Sea lamprey
Phacellophora camtschatica	Fried egg jellyfish
Phaeoptyx conklini	Freckled cardinalfish
Phaeoptyx pigmentaria	Dusky cardinalfish
Phaeoptyx xenus	Sponge cardinalfish
Phanerodon atripes	Sharpnose seaperch
Phanerodon furcatus	White seaperch
Phanerodon vacca	Pile perch
Phidolopora pacifica	Lattice work bryozoan
Philine bakeri	Baker paper-bubble
Phimochirus holthuisi	Red striped hermit
Pholis gunnellus	Rock gunnel
Pholis laeta	Crescent gunnel
Phorbas paucistylifer	NA
Photonectes margarita	NA
Phrontis vibex	Bruised nassa
Phtheichthys lineatus	Slender suckerfish
Phyllolithodes papillosus	Flatspine triangle crab

Phyllonotus pomum	Apple murex
Physiculus fulvus	Hakeling
Physiculus rastrelliger	Hundred fathom mora
Pilumnus dasypodus	Shortspined hairy crab
Pilumnus floridanus	Plumed hairy crab
Pilumnus pannosus	Beaded hairy crab
Pilumnus sayi	Spineback hairy crab
Pinnaxodes floridensis	Polkadotted pea crab
Pinnixa lunzi	Lunz pea crab
Pisaster brevispinus	Giant pink sea star
Pisaster giganteus	Giant spined star
Pisaster ochraceus	Purple star
Placetrion wosnessenskii	Scaled crab
Placiphorella pacifica	NA
Placiphorella rufa	Red veiled chiton
Placopecten magellanicus clapper	Atlantic sea scallop
Plakina atka	Atka membrane sponge
Plakina tanaga	NA
Planes minutus	Gulfweed crab
Platybelone argalus	Keeltail needlefish
Platyroctes apus	Legless searsid
Plectobranthus evides	Bluebarred prickleback
Plectrypops retrospinis	Cardinal soldierfish
Pleoticus robustus	Royal red shrimp
Plesionika acanthonotus	Lesser striped shrimp
Plesionika edwardsii	Soldier striped shrimp
Plesionika longicauda	NA
Pleurobranchaea inconspicua	NA
Pleurobranchus areolatus	Atlantic sidegill slug
Pleuronectiform larvae	NA
Pleuronichthys coenosus	C o sole
Pleuronichthys ritteri	Spotted turbot
Pleuronichthys verticalis	Hornyhead turbot
Plicifusus oceanodromae	NA
Plicifusus olivaceus	NA
Plicifusus rodgersi	Strombiform whelk
Plinthaster dentatus	NA
Plumarella aleutiana	NA
Plumarella echinata	NA
Plumarella hapala	NA
Plumarella nuttingi	NA
Plumarella robusta	NA
Plumarella superba	NA
Poecilopsetta beanii	Deepwater dab

<i>Pogonias cromis</i>	Black drum
<i>Polyclinum planum</i>	Elephant ear tunicate
<i>Polydactylus octonemus</i>	Atlantic threadfin
<i>Polydactylus virginicus</i>	Barbu
<i>Polygona infundibulum</i>	Brown line latirus
<i>Polyipnus clarus</i>	Slope hatchetfish
<i>Polymastia boletiformis</i>	Nipple sponge
<i>Polymastia fluegeli</i>	NA
<i>Polymastia pachymastia</i>	Black orange spud sponge
<i>Polymastia pacifica</i>	Aggregated nipple sponge
<i>Polymetme thaeocoryla</i>	NA
<i>Polymixia lowei</i>	Beardfish
<i>Polymixia nobilis</i>	Stout beardfish
<i>Polymyces montereyensis</i>	NA
<i>Polyonyx gibbesi</i>	Eastern tube crab
<i>Polystira albida</i>	White giant-turris
<i>Polystira tellea</i>	Delicate giant-turris
<i>Pomacanthus arcuatus</i>	Gray angelfish
<i>Pomacanthus paru</i>	French angelfish
<i>Pontinus longispinis</i>	Longspine scorpionfish
<i>Pontinus rathbuni</i>	Highfin scorpionfish
<i>Pontophilus norvegicus</i>	Norwegian shrimp
<i>Poraniopsis inflata</i>	Spiny sea star
<i>Porcellana sayana</i>	Spotted porcelain crab
<i>Porcellana sigsbeiana</i>	Striped porcelain crab
<i>Porella compressa</i>	Flattened bryozoan
<i>Porichthys myriaster</i>	Specklefin midshipman
<i>Poroclinus rothrocki</i>	Whitebarred prickleback
<i>Poromitra cristiceps</i>	NA
<i>Poromitra curilensis</i>	Alaskan crested bigscale
<i>Portunus ordwayii</i>	Redhair swimming crab
<i>Portunus sayi</i>	Sargassum swimming crab
<i>Priacanthus arenatus</i>	Atlantic bigeye
<i>Primnoa pacifica</i>	Red tree gorgonian coral
<i>Primnoa pacifica</i> var. <i>willeyi</i>	Red tree coral
<i>Primnoa resedaeformis</i>	Red trees
<i>Primnoa wingi</i>	NA
<i>Prionace glauca</i>	Blue shark
<i>Prionotus alatus</i>	Spiny searobin
<i>Prionotus martis</i>	Gulf of mexico barred searobin
<i>Prionotus stephanophrys</i>	Lumptail searobin
<i>Pristigenys alta</i>	Short bigeye
<i>Processa profunda</i>	NA
<i>Prognathodes aya</i>	Bank butterflyfish

<i>Prognatholiparis ptychomandibularis</i>	Wrinkle jaw snailfish
<i>Prognichthys gibbifrons</i>	Bluntnose flyingfish
<i>Promethichthys prometheus</i>	Roudi escolar
<i>Pronotogrammus martinicensis</i>	Roughtongue bass
<i>Propebela nobilis</i>	Noble lora
<i>Propeleda conceptionis</i>	NA
<i>Protomyctophum thompsoni</i>	Bigeye lanternfish
<i>Psammotreta brevifrons</i>	Short macoma
<i>Psathyrometra fragilis</i>	NA
<i>Psenes pellucidus</i>	Bluefin driftfish
<i>Psettichthys melanostictus</i>	Pacific sand sole
<i>Pseudarchaster alascensis</i>	Aleutian scarlet star
<i>Pseudarchaster dissonus</i>	Giant brown pseudarchaster
<i>Pseudarchaster pusillus</i>	NA
<i>Pseudobathylagus milleri</i>	Stout blacksmelt
<i>Pseudobatos lentiginosus</i>	Atlantic guitarfish
<i>Pseudobatos productus</i>	Shovelnose guitarfish
<i>Pseudoliomesus ooides</i>	Nut whelk
<i>Pseudomedeus agassizii</i>	Rough rubble crab
<i>Pseudomedeus distinctus</i>	NA
<i>Pseudomyrophis fugesae</i>	Diminutive worm eel
<i>Pseudomyrophis nimius</i>	NA
<i>Pseudorhombila quadridentata</i>	Flecked squareback crab
<i>Pseudosuberites montiniger</i>	Peachball sponge
<i>Pseudupeneus maculatus</i>	Spotted goatfish
<i>Psolidium bullatum</i>	NA
<i>Psolus chitonoides</i>	Slipper sea cucumber
<i>Psolus fabricii</i>	Scarlet psolus
<i>Psolus japonicus</i>	NA
<i>Psolus phantapus</i>	Arctic armored cucumber
<i>Psolus squamatus</i>	White creeping pedal sea cucumber
<i>Psychrolutes paradoxus</i>	Tadpole sculpin
<i>Psychrolutes phrictus</i>	Blob sculpin
<i>Pteraster coscinopeplus</i>	NA
<i>Pteraster jordani</i>	Jordan's cushion star
<i>Pteraster marsippus</i>	Prickly cushion star
<i>Pteraster octaster</i>	NA
<i>Pteraster pulvillus</i>	Orange cushion star
<i>Pteraster temnochiton</i>	Rough cushion star
<i>Pteraster tessellatus</i>	Tesselated slime star
<i>Pteraster tessellatus arcuatus</i>	NA
<i>Pteraster trigonodon</i>	NA
<i>Pteraster willsi</i>	NA

<i>Pteria colymbus</i>	Atlantic wing-oyster
<i>Pterois volitans</i>	Red lionfish
<i>Ptilosarcus gurneyi</i>	Gurney's sea pen
<i>Pugettia gracilis</i>	Graceful kelp crab
<i>Pugettia producta</i>	Northern kelp crab
<i>Pugettia richii</i>	Cryptic kelp crab
<i>Puncturella major</i>	Great puncturella
<i>Puncturella rothi</i>	NA
<i>Pungitius pungitius</i>	Ninespine stickleback
Purple striated anemone	Purple striated anemone
<i>Pusula pediculus</i>	Coffeebean trivia
<i>Puzanovia rubra</i>	NA
<i>Pyromaia cuspidata</i>	Dartnose pear crab
<i>Pyrosoma atlanticum</i>	NA
<i>Pyrulofusus deformis</i>	Warped whelk
<i>Pyrulofusus dexius</i>	NA
<i>Pyrulofusus harpa</i>	Left-hand whelk
<i>Pyrulofusus melonis</i>	Giant melon whelk
<i>Pyura haustor</i>	Warty tunicate
<i>Rachycentron canadum</i>	Cobia
<i>Radulinus asprellus</i>	Slim sculpin
<i>Ranilia muricata</i>	Muricate frog crab
<i>Raninoides loevis</i>	Furrowed frog crab
<i>Rastrinus scutigera</i>	Roughskin sculpin
<i>Rathbunella hypoplecta</i>	Stripefin ronquil
<i>Rathbunixa occidentalis</i>	Western pea crab
<i>Raymanninus schmitti</i>	Sharpoar swimming crab
Red striated anemone	NA
<i>Regadrella okinoseana</i>	Lacy basket sponge
<i>Remora remora</i>	Shark sucker
<i>Renilla reniformis</i>	Sea pansy
<i>Retifusus roseus</i>	Rosy whelk
<i>Retifusus virens</i>	Green whelk
<i>Retiometra alascana</i>	NA
<i>Rhacochilus toxotes</i>	Rubberlip seaperch
<i>Rhacostoma atlanticum</i>	NA
<i>Rhamphocottus richardsonii</i>	Grunt sculpin
<i>Rhamphostomella costata</i>	Ribbed bryozoan
<i>Rhinoliparis attenuatus</i>	Slim snailfish
<i>Rhinoliparis barbulifer</i>	Longnose snailfish
<i>Rhinolithodes wosnessenskii</i>	Rhinoceros crab
<i>Rhinoptera brasiliensis</i>	Brazilian cownose ray
<i>Rhithropanopeus harrisi</i>	Harris mud crab
<i>Rhynchoconger flavus</i>	Yellow conger

Rhynchoconger gracilior	Whiptail conger
Rhynchoconger guppyi	NA
Rhynocrangon alata	Saddleback shrimp
Rhynocrangon sharpi	NA
Rimapenaeus constrictus	Roughneck shrimp
Risor ruber	Tusked goby
Rocinela angustata	NA
Romaleon antennarium	Pacific rock crab
Romaleon branneri	Furrowed rock crab
Ronquilus jordani	Northern ronquil
Rossia spp.	Benthic bobtail squid
Rypticus bistrispinus	Freckled soapfish
Rypticus maculatus	Whitespotted soapfish
Rypticus subbifrenatus	Spotted soapfish
Sagamichthys abei	Shining tubeshoulder
Salmo salar	Atlantic salmon
Salvelinus malma	Dolly varden
Sarda orientalis	Striped bonito
Sarda sarda	Atlantic bonito
Sardinella brasiliensis	Brazilian sardinella
Sardinops sagax	South american pilchard
Sargocentron bullisi	Deepwater squirrelfish
Sarritor leptorhynchus	Longnose poacher
Sasakiopus salebrosus	Rough octopus
Saurenhelys cognita	Longface eel
Saurida caribbaea	Smallscale lizardfish
Saurida normani	Shortjaw lizardfish
Saxidomus gigantea	Washington butterclam
Scabrotrophon stuarti	Winged trophon
Scaphella junonia	Junonia
Scarus taeniopterus	Princess parrotfish
Scelidotoma bella	Elegant emarginula
Schizaster orbignyanus	NA
Sciaenops ocellatus	Red drum
Sclerasterias heteropaes	Banded sea star
Scomber colias	Atlantic chub mackerel
Scomber japonicus	Chub mackerel
Scomberesox saurus	Atlantic saury
Scomberomorus regalis	Cero
Sconsia grayi	Royal bonnet
Scopelengys tristis	Pacific blackchin
Scopelosaurus adleri	NA
Scopelosaurus harryi	Scaly paperbone
Scorpaena agassizii	Longfin scorpionfish

Scorpaena dispar	Hunchback scorpionfish
Scorpaena guttata	California scorpionfish
Scorpaena plumieri	Spotted scorpionfish
Scorpaenichthys marmoratus	Cabezon
Scyliorhinus retifer	Chain catshark
Scyllarides aequinoctialis	Spanish slipper lobster
Scyllarus americanus	American slipper lobster
Scyllarus depressus	Scaled slipper lobster
Scyra acutifrons	Sharpnose crab
Sebastes aleutianus	Rougheye rockfish
Sebastes atrovirens	Kelp rockfish
Sebastes auriculatus	Brown rockfish
Sebastes carnatus	Gopher rockfish
Sebastes caurinus	Copper rockfish
Sebastes constellatus	Starry rockfish
Sebastes dallii	Calico rockfish
Sebastes diaconus	Deacon rockfish
Sebastes emphaeus	Puget sound rockfish
Sebastes ensifer	Swordspine rockfish
Sebastes eos	Pink rockfish
Sebastes gilli	Bronzespotted rockfish
Sebastes hopkinsi	Squarespot rockfish
Sebastes lentiginosus	Freckled rockfish
Sebastes levis	Cowcod
Sebastes macdonaldi	Mexican rockfish
Sebastes maliger	Quillback rockfish
Sebastes melanops	Black rockfish
Sebastes melanostictus	Blackspotted rockfish
Sebastes melanostomus	Blackgill rockfish
Sebastes miniatus	Vermillion rockfish
Sebastes miniatus and S. crocotulus	Vermillion and sunset rockfish
Sebastes miniatus and S. pinniger	Vermillion and canary rockfish
Sebastes moseri	Whitespeckled rockfish
Sebastes mystinus	Blue rockfish
Sebastes nigrocinctus	Tiger rockfish
Sebastes ovalis	Speckled rockfish
Sebastes phillipsi	Chameleon rockfish
Sebastes rastrelliger	Grass rockfish
Sebastes reedi	Yellowmouth rockfish
Sebastes rosaceus	Rosy rockfish
Sebastes rosenblatti	Greenblotched rockfish
Sebastes ruberrimus	Yelloweye rockfish
Sebastes rubrivinctus	Flag rockfish
Sebastes rufus	Bank rockfish

<i>Sebastes serranooides</i>	Olive rockfish
<i>Sebastes serriceps</i>	Treefish
<i>Sebastes simulator</i>	Pinkrose rockfish
<i>Sebastes umbrosus</i>	Honeycomb rockfish
<i>Sebastes wilsoni</i>	Pygmy rockfish
<i>Sebastobus macrochir</i>	Broadbanded thornyhead
Selachii sharks	NA
<i>Selar crumenophthalmus</i>	Bigeye scad
<i>Semicassis granulata</i>	Scotch bonnet
<i>Semicossyphus pulcher</i>	California sheephead
<i>Semirossia tenera</i>	Lesser shining bobtail
<i>Semisuberites cribrosa</i>	Vase sponge
<i>Seriola dumerili</i>	Greater amberjack
<i>Seriola fasciata</i>	Lesser amberjack
<i>Seriola rivoliana</i>	Longfin yellowtail
<i>Seriola zonata</i>	Banded rudderfish
<i>Seriphus politus</i>	Queen croaker
	Red trumpet calcareous tubeworm
<i>Serpula columbiana</i>	Serpulid worm
<i>Serpula vermicularis</i>	Pygmy sea bass
<i>Serraniculus pumilio</i>	Orangeback bass
<i>Serranus annularis</i>	Saddle bass
<i>Serranus notospilus</i>	Belted sandfish
<i>Serranus subligarius</i>	NA
<i>Serratiflustra serrulata</i>	Greenland cockle
<i>Serripes groenlandicus</i>	Broad smoothcockle
<i>Serripes laperousii</i>	Crossthorat sawpalate
<i>Serrivomer jespersenii</i>	Sawtooth eel
<i>Serrivomer sector</i>	Spiny rock shrimp
<i>Sicyonia burkenroadi</i>	Ridgeback rock shrimp
<i>Sicyonia ingentis</i>	Notched tidal rock shrimp
<i>Sicyonia laevigata</i>	NA
<i>Sicyonia parri</i>	Eyespot rock shrimp
<i>Sicyonia stimpsoni</i>	Kinglet rock shrimp
<i>Sicyonia typica</i>	Elongated bristlemouth fish
<i>Sigmops elongatus</i>	Slender fangjaw
<i>Sigmops gracilis</i>	Alaska razor
<i>Siliqua alta</i>	Pacific razor
<i>Siliqua patula</i>	Snubnosed eel
<i>Simenchelys parasitica</i>	Perverse whelk
<i>Sinistrofulgur perversum</i>	Prickly whelk
<i>Sinistrofulgur pulleyi</i>	Lightning whelk
<i>Sinistrofulgur sinistrum</i>	Brown baby ear
<i>Sinum maculatum</i>	

<i>Siratus beauui</i>	Beau's murex
<i>Solariella obscura</i>	Obscure solarelle
<i>Solaster dawsoni</i>	Morning sun star
<i>Solaster dawsoni arcticus</i>	NA
<i>Solaster endeca</i>	Northern sun star
<i>Solaster exiguus</i>	NA
<i>Solaster hexactis</i>	NA
<i>Solaster hypothrissus</i>	White sun star
<i>Solaster paxillatus</i>	Orange sunstar
<i>Solaster spectabilis</i>	NA
<i>Solaster stimpsoni</i>	Stimpson's sun star
<i>Solecurtus cumingianus</i>	Corrugate solecurtus
<i>Solenastrea hyades</i>	Knobby star coral
<i>Solenosteira cancellaria</i>	Cancellate cantharus
<i>Somniosus pacificus</i>	Pacific sleeper shark
<i>Sparisoma atomarium</i>	NA
<i>Spatangus californicus</i>	California heart urchin
<i>Spathochlamys benedicti</i>	Yellow spot scallop
<i>Spengleria rostrata</i>	Rostrate gastrochaenid
<i>Speocarcinus carolinensis</i>	NA
<i>Speocarcinus lobatus</i>	Gulf squareback crab
<i>Sphenia fragilis</i>	NA
<i>Sphoeroides nephelus</i>	Southern puffer
<i>Sphoeroides pachygaster</i>	Blunthead puffer
<i>Sphoeroides testudineus</i>	Checkered puffer
<i>Sphyraena argentea</i>	Pacific barracuda
<i>Sphyraena barracuda</i>	Great barracuda
<i>Sphyraena borealis</i>	Northern sennet
<i>Sphyrna lewini</i>	Scalloped hammerhead
<i>Sphyrna mokarran</i>	Great hammerhead
<i>Sphyrna zygaena</i>	Smooth hammerhead
<i>Spinolambrus fraterculus</i>	Rough elbow crab
<i>Spinolambrus pourtalesii</i>	Spinous elbow crab
<i>Spirinchus starksi</i>	Night smelt
<i>Spirinchus thaleichthys</i>	Longfin smelt
<i>Spirontocaris arcuata</i>	Rathbun blade shrimp
<i>Spirontocaris lamellicornis</i>	Dana's blade shrimp
<i>Spirontocaris liljeborgii</i>	Friendly blade shrimp
<i>Spirontocaris phippisii</i>	Punctuate blade shrimp
<i>Spisula solidissima</i>	Atlantic surfclam
<i>Spondylus americanus</i>	Atlantic thorny oyster
<i>Spondylus tenuis</i>	Digitate thorny oyster
<i>Squatina californica</i>	Pacific angelshark
<i>Squatina dumeril</i>	Sand devil

<i>Squilla deceptrix</i>	NA
<i>Squilla edentata</i>	NA
<i>Squilla rugosa</i>	NA
<i>Stachyptilum superbum</i>	Exquisite sea pen
<i>Staurostoma mertensii</i>	Whitecross jellyfish
<i>Stegastes fuscus</i>	Brazilian damsel
<i>Stegastes leucostictus</i>	Beaugregory
<i>Stegastes partitus</i>	Bicolor damselfish
<i>Stegastes variabilis</i>	Cocoa damselfish
<i>Stegocephalus inflatus</i>	NA
<i>Stegophiura nodosa</i>	NA
<i>Steindachneria argentea</i>	Luminous hake
<i>Stelodoryx oxeata</i>	NA
<i>Stenobranchius leucopsarus</i>	Northern lampfish
<i>Stenobranchius nannochir</i>	Garnet lanternfish
<i>Stenocionops coelatus</i>	Furcate spider crab
<i>Stenocionops furcatus</i>	Furcate spider crab
<i>Stenocionops spinimanus</i>	Prickly spider crab
<i>Stenocionops spinosissimus</i>	Tenspine spider crab
<i>Stenopus scutellatus</i>	Yellowbanded coral shrimp
<i>Stephanasterias albula</i>	Odd rayed star
<i>Stephanolepis setifer</i>	Pygmy filefish
<i>Stereomastis sculpta</i>	Flatback blind lobster
<i>Sternoptyx diaphana</i>	Diaphanous hatchet fish
<i>Stichaeus punctatus</i>	Arctic shanny
<i>Stichopathes luetkeni</i>	Black wire coral
<i>Stigmatoteuthis dofleini</i>	North pacific flowervase jewel squid
<i>Stigmatoteuthis hoylei</i>	South pacific flowervase jewel squid
<i>Stoloteuthis leucoptera</i>	Butterfly bob tail
<i>Stomias atriventer</i>	Black-belly dragonfish
<i>Stomias boa</i>	Boa dragonfish
<i>Stomolophus meleagris</i>	Cannonball jellyfish
<i>Stomphia coccinea</i>	Swimming anemone
<i>Stomphia didemon</i>	Cowardly anemone
<i>Stramonita haemastoma</i>	Red mouthed rock shell
<i>Strombus alatus</i>	Florida fighting conch
<i>Strongylocentrotus pallidus</i>	Pale urchin
<i>Strongylocentrotus polyacanthus</i>	NA
<i>Strongylocentrotus purpuratus</i>	Purple urchin
<i>Strongylocentrotus sp. cf. fragilis</i>	NA
<i>Strongylura marina</i>	Atlantic needlefish
<i>Styela plicata</i>	Pleated sea squirt

<i>Stylaster alaskanus</i>	NA
<i>Stylaster brochi</i>	NA
<i>Stylaster campylecus</i>	White branching hydrocoral
<i>Stylaster crassiseptum</i>	NA
<i>Stylaster elassotomus</i>	NA
<i>Stylaster parageus</i>	NA
<i>Stylaster repandus</i>	NA
<i>Stylaster stejneri</i>	NA
<i>Stylaster trachystomus</i>	NA
<i>Stylaster venustus</i>	Fuchsia lace hydrocoral
<i>Stylaster verrillii</i>	Pink branching lace hydrocoral
<i>Stylatula gracilis</i>	NA
<i>Stylocidaris affinis</i>	Pencil urchin
<i>Stylocordyla borealis</i>	Boreal horny sponge
<i>Stylocordyla borealis eous</i>	NA
<i>Suberites domuncula</i>	Sea orange
<i>Suberites ficus</i>	Fig sponge
<i>Suberites montalbidus</i>	NA
<i>Sulcosinus taphrius</i>	NA
<i>Syacium micrurum</i>	Channel flounder
<i>Sycon compactum</i>	Betrothed calcareous sponge
<i>Symbolophorus californiensis</i>	Bigfin lanternfish
<i>Symphurus atricauda</i>	California tonguefish
<i>Symphurus civitatum</i>	Offshore tonguefish
<i>Symphurus diomedeanus</i>	Spottedfin tonguefish
<i>Symphurus marginatus</i>	Margined tonguefish
<i>Symphurus minor</i>	Largescale tonguefish
<i>Symphurus pelicanus</i>	Longtail tonguefish
<i>Symphurus urospilus</i>	Spottail tonguefish
<i>Synagrops bellus</i>	Blackmouth bass
<i>Synallactes challenger</i>	Challenger cucumber
<i>Synalpheus fritzmuelleri</i>	Speckled snapping shrimp
<i>Synalpheus longicarpus</i>	NA
<i>Synalpheus minus</i>	Minor snapping shrimp
<i>Synalpheus townsendi</i>	Townsend snapping shrimp
<i>Synchiropus goodenbeani</i>	Palefin dragonet
<i>Syngnathus floridae</i>	Dusky pipefish
<i>Syngnathus fuscus</i>	Northern pipefish
<i>Syngnathus louisianae</i>	Chain pipefish
<i>Syngnathus pelagicus</i>	Broadnosed pipefish
<i>Syngnathus springeri</i>	Bull pipefish
<i>Synodus lucioceps</i>	California lizardfish
<i>Synodus macrostigmus</i>	Largespot lizardfish
<i>Synodus synodus</i>	Diamond lizardfish

Tachyrhynchus erosus	Eroded turretsnail
Tactostoma macropus	Longfin dragonfish
Tamoya haplonema	NA
Taningia danae	Dana octopus squid
Taonius borealis	NA
Taonius pavo	Peacock cranch squid
Tarletonbeania crenularis	Blue lanternfish
Tarsaster alaskanus	Alaskan star
Tautoga onitis	Tautog
Tautogolabrus adspersus	Cunner
Tedania (Tedania) dirhaphis	NA
Tegula pulligo	Dusky tegula
Tellinella listeri	Speckled tellin
Temnocora candida	Bigeye snailfish
Tentorium semisuberites	Pavilion horny sponge
Terebratalia transversa	Common lamp shell
Terebratulina unguicula	Snake's head lamp shell
Tethyaster grandis	NA
Tetragonurus cuvieri	Smalleye squaretail
Tetronarce californica	Pacific electric ray
Tetronarce nobiliana	Electric ray
Thetys vagina	Virgin salpa
Thouarella cristata	NA
Thunnus alalunga	Albacore
Thyonella gemmata	Green sea cucumber
Thyonella pervicax	NA
Thyriscus anoplus	Sponge sculpin
Tochuina gigantea	Giant orange tochui
Tonicella insignis	White line chiton
Tonna galea	Giant tun
Torellivelutina ammonia	NA
Tozeuma serratum	Serrate arrow shrimp
Trachipterus altivelis	King of-the-salmon
Trachurus symmetricus	Jack mackerel
Travisia pupa	NA
Tremoctopus violaceus	Violet blanket octopods
Tresus capax	Fat gaper
Triakis semifasciata	Leopard shark
Trichocottus brashnikovi	Hairhead sculpin
Trichodon trichodon	Pacific sandfish
Trichotropis bicarinata	Two keel hairysnail
Trididemnum opacum	NA
Triglops macellus	Roughspine sculpin
Triglops metopias	Alaskan sculpin

Triglops murrayi	Moustache sculpin
Triglops xenostethus	Scaly breasted sculpin
Triopha catalinae	Sea clown triopha
Triplofusus giganteus	Florida horse conch
Tripoplax abyssicola	NA
Tripoplax beringiana	NA
Tripoplax trifida	Three rib chiton
Tritonia festiva	Diamondback tritonia
Tubicolixa chaetoptera	Tube pea crab
Tubulanus polymorphus	NA
Tumidotheres maculatus	Squatter pea crab
Turbo castanea	NA
Turritella exoleta	Eastern turretsnail
Tyche emarginata	Fourhorn crab
Ulvaria subbifurcata	Radiated shanny
Umbrina coroides	Sand drum
Upogebia pugettensis	Blue mud shrimp
Uraspis secunda	Cottonmouth jack
Urobatis jamaicensis	Yellow stingray
Uroconger syringinus	Threadtail conger
Urophycis cirrata	Gulf hake
Urophycis earllei	Carolina hake
Urophycis floridana	Southern hake
Urosalpinx cinerea	Atlantic oyster drill
Urticina columbiana	Crusty red anemone
Urticina coriacea	Leathery anemone
Urticina crassicornis	Mottled anemone
Urticina eques	Spotted red anemone
Vampyroteuthis infernalis	Vampire squid
Velella velella	By the-wind sailor
Velutina plicatilis	Oblique lamellaria
Velutina velutina	Smooth lamellaria
Venefica tentaculata	NA
Vermicularia knorrii	Florida wormsnailed
Vesicomya pacifica	NA
Vilasina seminuda	Partly sculptured crenella
Vokesimurex bellegladeensis	Belleglade murex
Vokesimurex tryoni	NA
Volutomitra groenlandica	NA
Volutopsis castaneum	Chestnut whelk
Volutopsius castaneus	Volute whelk
Volutopsius fragilis	Fragile whelk
Volutopsius middendorffi	Tulip whelk
Volutopsius pallidus	NA

<i>Volutopsius regularis</i>	Regular whelk
<i>Volutopsius simplex</i>	Volute whelk
<i>Volutopsius stefanssoni</i>	NA
<i>Volutopsius trophonius</i>	Frilled whelk
<i>Warenia elegantula</i>	NA
<i>Weberella bursa</i>	NA
<i>Xeneretmus latifrons</i>	Blacktip poacher
<i>Xeneretmus leiops</i>	Smooth eye poacher
<i>Xeneretmus triacanthus</i>	Bluespotted poacher
<i>Xenocephalus egregius</i>	Freckled stargazer
<i>Xenolepidichthys dalgleishi</i>	Spotted tinseltail
<i>Xenophora caribaea</i>	Caribbean carriersnail
<i>Xenophora conchyliophora</i>	American carriersnail
<i>Xiphias gladius</i>	Swordfish
<i>Xyrichtys martinicensis</i>	Rosy razorfish
<i>Xyrichtys novacula</i>	Pearly razorfish
<i>Xyrichtys splendens</i>	Green razorfish
<i>Xystreurus liolepis</i>	Fantail flounder
<i>Yoldia aeolica</i>	Oblique lined yoldia
<i>Yoldia hyperborea</i>	Northern yoldia
<i>Zameus squamulosus</i>	Velvet dogfish
<i>Zaniolepis frenata</i>	Shortspine combfish
<i>Zapteryx exasperata</i>	Banded guitarfish
<i>Zenopsis conchifer</i>	Silvery john dory
<i>Zesticelus profundorum</i>	Flabby sculpin
<i>Zoroaster ophiurus</i>	NA