

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 **June 11th 2024**.

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
July 2024:	Annual data update. Fixed several issues with the GMEX code including: (1) issues with merging of Tow (invrec) and bio (bgsrec) tables, (2) taxonomic coding issues – used a new biocodes table, (3) problematic taxa with known identification issues in the field. Fixed issues with SEUS wtcpue calculations.

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. The code 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

Region	Season	Duration	Taxa > 3/4 of years	Core species	Data filtering notes	Data Source
Aleutian Islands	Summer	1991-2022	57	31	none	https://www.fisheries.noaa.gov/foss/f?p=215:28:11659615688681:::::
Eastern Bering Sea	Summer	1982-2023	66	43	remove years 1982, 1983, 1984, 1985, 1986	
Gulf of Alaska	Summer	1993-2023	66	43	remove year 2001; strata >= 11 years	
Northern Bering Sea	Summer	2010, 2017-2023	67	58	none	
West Coast Triennial	Summer	1977-2004	51	39	keep only strata sampled all 10 years of survey	https://www.webapps.nwfsc.noaa.gov/data/map
West Coast Annual	Summer	2003-2023	100	70	Keep only strata sampled in >= 20 years	
Gulf of Mexico	Summer	1982-2022	128	90	keep years >= 2008, drop 2022; keep strata sampled 13 of years 2008-2021	https://seamap.gsmfc.org/
Southeast U.S. Shelf	Fall	1989-2022	69	41	Keep only strata sampled >31 years	http://www.seamap.org/datapage.html
	Spring	1989-2022	63	45	keep only strata sampled >= 29 years of survey	
	Summer	1989-2022	68	42	Remove year 2021 (poorly sampled)	
Northeast U.S. Shelf	Fall	1963-2023	52	27	keep years > 1973, dropped 2017; keep strata sampled all but 2 years	https://www.fisheries.noaa.gov/inport/item/22560
	Spring	1968-2023	47	30	keep years > 1973, drop 2023, 2020, 2014, 1975; keep strata sampled all but 2 years	https://www.fisheries.noaa.gov/inport/item/22561
Hawai'i Islands	Fall	2016-2023	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 or 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.

and triennial), and Gulf of Mexico) the wtcpue is not reported and therefore is calculated in the R script. This involves calculating 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). These higher order categories are retained only when there was an explicit decision to lump species together into species complexes (e.g., Bathryaja sp. or Doryteuthis sp.). 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 and 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 to 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 Aelutian 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: LIST OF THE 451 UNIQUE SPECIES RETAINED AND PRESENTED
ON DISMAP**

SPECIES	COMMON NAME	REGION
<i>Acantholumpenus mackayi</i>	Pighead prickleback	Northern Bering Sea, Bering Sea
<i>Acanthostracion quadricornis</i>	Scrawled cowfish	Combined
		Gulf of Mexico
		Gulf of Mexico, Southeast US Fall,
		Southeast US Spring, Southeast US
<i>Achelous gibbesii</i>	Iridescent swimming crab	Summer
		Gulf of Mexico
<i>Achelous spinicarpus</i>	Longspine swimming crab	Gulf of Mexico, Southeast US Fall,
		Southeast US Spring, Southeast US
		Summer
<i>Achelous spinimanus</i>	Blotched swimming crab	Gulf of Alaska, West Coast Annual
<i>Actinauge verrillii</i>	Reticulate anemone	West Coast Annual
<i>Actinostola faeculenta</i>	Hobnail vase anemone	West Coast Annual
<i>Albatrossia pectoralis</i>	Giant grenadier	West Coast Annual
<i>Alepocephalus tenebrosus</i>	California slickhead	West Coast Annual
<i>Alosa aestivalis</i>	Blueback herring	Northeast US Spring
<i>Alosa pseudoharengus</i>	Alewife	Northeast US Fall, Northeast US Spring
		Northeast US Spring, West Coast
<i>Alosa sapidissima</i>	American shad	Annual, West Coast Triennial
<i>Aluterus schoepfii</i>	Orange filefish	Gulf of Mexico
<i>Amblyraja radiata</i>	Thorny skate	Northeast US Fall, Northeast US Spring
<i>Anarhichas lupus</i>	Atlantic wolffish	Northeast US Fall, Northeast US Spring
<i>Anasimus latus</i>	Stilt spider crab	Gulf of Mexico
<i>Anchoa hepsetus</i>	Striped anchovy	Gulf of Mexico
<i>Anchoa spp.</i>	Anchovies	Southeast US Fall, Southeast US Spring, Southeast US Summer
		Gulf of Mexico, Southeast US Spring, Southeast US Summer
<i>Ancylosetta quadrocellata</i>	Ocellated flounder	Aleutian Islands, Gulf of Alaska, West
		Coast Annual, West Coast Triennial
<i>Anoplopoma fimbria</i>	Sablefish	West Coast Annual
<i>Anthoptilum grandiflorum</i>	Feather boa sea pen	West Coast Annual
<i>Antimora microlepis</i>	Finescale mora	West Coast Annual
<i>Aphrocallistes vastus</i>	Cloud sponge	Aleutian Islands, Gulf of Alaska
<i>Apostichopus californicus</i>	Giant california sea cucumber	West Coast Annual
<i>Apostichopus leukothelae</i>	White-knobbed sea cucumber	West Coast Annual
<i>Apristurus brunneus</i>	Brown catshark	West Coast Annual
		Northern Bering Sea, Bering Sea
<i>Arctoraja parmiifera</i>	Alaska skate	Combined
<i>Arenaeus cibrarius</i>	Speckled swimming crab	Southeast US Fall, Southeast US Summer

<i>Aspidophoroides olrikii</i>	Arctic alligatorfish	Northern Bering Sea, Bering Sea Combined
<i>Asterias amurensis</i>	North pacific seastar	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Atheresthes stomias</i>	Arrowtooth flounder	Gulf of Alaska, West Coast Annual, West Coast Triennial
<i>Atheresthes stomias</i> and <i>A. evermanni</i>	Arrowtooth and kamchatka flounders	Aleutian Islands, Eastern Bering Sea, Bering Sea Combined
<i>Axinella blanca</i>	Firm finger sponge	Aleutian Islands
<i>Bairdiella chrysoura</i>	Silver perch	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Balistes capriscus</i>	Gray triggerfish	Gulf of Mexico
<i>Bathybembix bairdii</i>	NA	West Coast Annual
<i>Bathymaster signatus</i>	Searcher	Aleutian Islands, Eastern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Bathyraja</i> spp.	Skate complex	Aleutian Islands, Gulf of Alaska, West Coast Annual, West Coast Triennial
<i>Bellator militaris</i>	Horned searobin	Gulf of Mexico
<i>Beringraja binoculata</i>	Big skate	Gulf of Alaska, West Coast Annual, West Coast Triennial
<i>Beringraja inornata</i>	California skate	West Coast Annual
<i>Beringraja rhina</i>	Longnose skate	Gulf of Alaska, West Coast Annual, West Coast Triennial
<i>Berryteuthis magister</i>	Magister armhook squid	Aleutian Islands, Gulf of Alaska Eastern Bering Sea, Northern Bering Sea,
<i>Boltenia ovifera</i>	Stalked sea squirt	Bering Sea Combined
<i>Boreogadus saida</i>	Arctic cod	Northern Bering Sea, Bering Sea Combined
<i>Bothrocara brunneum</i>	Twoline eelpout	West Coast Annual
<i>Bothus robinsi</i>	Twospot flounder	Gulf of Mexico
<i>Brevoortia tyrannus</i>	Atlantic menhaden	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Brisaster latifrons</i>	Northern heart urchin	Gulf of Alaska, West Coast Annual Eastern Bering Sea, Northern Bering Sea,
<i>Buccinum angulosum</i>	Angular whelk	Bering Sea Combined
<i>Buccinum polare</i>	Polar whelk	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Buccinum scalariforme</i>	Ladder whelk	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Calamus proridens</i>	Littlehead porgy	Gulf of Mexico
<i>Calappa sulcata</i>	Yellow box crab	Gulf of Mexico
<i>Callinectes ornatus</i>	Shelling crab	Southeast US Summer
<i>Callinectes sapidus</i>	Blue crab	Gulf of Mexico, Southeast US Summer Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Callinectes similis</i>	Lesser blue crab	

<i>Callogorgia compressa</i>	NA	Aleutian Islands
<i>Cancer borealis</i>	Jonah crab	Northeast US Fall
<i>Cancer irroratus</i>	Atlantic rock crab	Northeast US Fall, Northeast US Spring
<i>Caranx cryos</i>	Blue runner	Southeast US Fall, Southeast US Summer
<i>Careproctus melanurus</i>	Blacktail snailfish	West Coast Annual
<i>Centropristes ocyurus</i>	Bank sea bass	Gulf of Mexico
<i>Centropristes philadelphica</i>	Rock sea bass	Gulf of Mexico, Southeast US Fall Northeast US Fall, Northeast US Spring, Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Centropristes striata</i>	Black sea bass	Northeast US Fall, Northeast US Spring Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Chaceon quinquedens</i>	Red deepsea crab	Northeast US Fall, Northeast US Spring Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Chaetodipterus faber</i>	Atlantic spadefish	Gulf of Mexico
<i>Chaetodon ocellatus</i>	Spotfin butterflyfish	West Coast Annual
<i>Chauliodus macouni</i>	Pacific viperfish	Aleutian Islands
<i>Cheiraster (Luidiaster) dawsoni</i>	NA	Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Chilomycterus schoepfii</i>	Striped burrfish	Aleutian Islands, Eastern Bering Sea, Gulf of Alaska, Bering Sea Combined Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Chionoecetes bairdi</i>	Tanner crab	West Coast Annual
<i>Chionoecetes opilio</i>	Snow crab	Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Chionoecetes tanneri</i>	Grooved tanner crab	West Coast Annual
<i>Chloroscombrus chrysurus</i>	Atlantic bumper Longhorn decorator crab	West Coast Annual Northern Bering Sea, Bering Sea Combined
<i>Chorilia longipes</i>	NA	Northeast US Fall
<i>Chrysaora melanaster</i>	Gulf stream flounder	Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Citharichthys arctifrons</i>	Spotted whiff	West Coast Annual, West Coast Triennial Gulf of Mexico, Southeast US Fall, Southeast US Summer
<i>Citharichthys macrops</i>	Pacific sanddab	West Coast Annual, West Coast Triennial Gulf of Mexico, Southeast US Fall, Southeast US Summer
<i>Citharichthys sordidus</i>	Bay whiff	Eastern Bering Sea, Bering Sea Combined
<i>Citharichthys spilopterus</i>	Helmet whelk	Northeast US Fall, Northeast US Spring Eastern Bering Sea, Northern Bering Sea, Gulf of Alaska, West Coast Annual, West Coast Triennial, Bering Sea Combined
<i>Clinopegma magnum</i>	Atlantic herring	West Coast Annual
<i>Clupea harengus</i>	Pacific herring	West Coast Annual
<i>Clupea pallasi</i>	Pacific grenadier	West Coast Annual
<i>Coryphaenoides acrolepis</i>	Grooved sun star	West Coast Annual
<i>Crossaster borealis</i>		

<i>Crossaster papposus</i>	Common sunstar	Aleutian Islands, Eastern Bering Sea, Northern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Ctenodiscus crispatus</i>	Mud star	Eastern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Cucumaria fallax</i>	Sea football	Aleutian Islands
<i>Cyanea capillata</i>	Lion's mane	Gulf of Alaska
<i>Cyclopsetta chittendeni</i>	Mexican flounder	Gulf of Mexico
<i>Cyclopsetta fimbriata</i>	Spotfin flounder	Gulf of Mexico
<i>Cynoscion arenarius</i>	Sand weakfish	Gulf of Mexico
		Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US
<i>Cynoscion nothus</i>	Silver seatrout	Summer
<i>Cynoscion regalis</i>	Weakfish	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Dasycottus setiger</i>	Spinyhead sculpin	Eastern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Decapterus punctatus</i>	Round scad	Gulf of Mexico
<i>Diplectrum bivittatum</i>	Dwarf sand perch	Gulf of Mexico
<i>Diplectrum formosum</i>	Sand perch	Gulf of Mexico
<i>Diplopteraster multipes</i>	Pincushion star	Aleutian Islands
<i>Dipturus laevis</i>	Barndoor skate	Northeast US Fall, Northeast US Spring
<i>Doryteuthis opalescens</i>	California market squid	West Coast Annual, West Coast Triennial
<i>Doryteuthis pealeii</i>	Longfin inshore squid	Northeast US Fall, Northeast US Spring
		Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US
<i>Doryteuthis</i> sp	Inshore Squid sp.	Summer
<i>Echidnocerus foraminatus</i>	Brown box crab	West Coast Annual
<i>Elassochirus cavimanus</i>	Purple hermit	Aleutian Islands
<i>Elassochirus tenuimanus</i>	Widehand hermit	Gulf of Alaska
<i>Eleginus gracilis</i>	Saffron cod	Northern Bering Sea, Bering Sea Combined
<i>Enophrys diceraus</i>	Antlered sculpin	Northern Bering Sea, Bering Sea Combined
	North pacific giant octopus	
<i>Enteroctopus dofleini</i>		Aleutian Islands
<i>Eopsetta jordani</i>	Petrale sole	West Coast Annual, West Coast Triennial
<i>Epinephelus morio</i>	Red grouper	Gulf of Mexico
<i>Eques lanceolatus</i>	Jackknife-fish	Gulf of Mexico
<i>Erimacrus isenbeckii</i>	Hair crab	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
		Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US
<i>Etropus crossotus</i>	Fringed flounder	Summer
<i>Etropus cyclosquamus</i>	Shelf flounder	Southeast US Summer

<i>Eucidaris tribuloides</i>	Slate pencil urchin	Gulf of Mexico
<i>Eucinostomus gula</i>	Silver jenny	Gulf of Mexico
<i>Eucinostomus</i> spp.	Mojarras	Southeast US Fall, Southeast US Summer
<i>Eumicrotremus orbis</i>	Pacific spiny lump sucker	Aleutian Islands
<i>Eunoe depressa</i>	Depressed scale worm	Northern Bering Sea, Bering Sea Combined
<i>Eunoe nodosa</i>	Giant scale worm	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Euvola marenensis</i>	Paper scallop	Gulf of Mexico
<i>Evasterias echinosoma</i>	Giant sea star	Northern Bering Sea, Bering Sea Combined
<i>Fowlerichthys radiosus</i>	Singlespot frogfish	Gulf of Mexico
<i>Fusitriton oregonensis</i>	Oregon triton	Aleutian Islands, Eastern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Gadus chalcogrammus</i>	Walleye pollock	Aleutian Islands, Eastern Bering Sea, Northern Bering Sea, Gulf of Alaska, West Coast Triennial, Bering Sea Combined
<i>Gadus macrocephalus</i>	Pacific cod	Aleutian Islands, Eastern Bering Sea, Northern Bering Sea, Gulf of Alaska, West Coast Triennial, Bering Sea Combined
<i>Gadus morhua</i>	Atlantic cod	Northeast US Fall, Northeast US Spring
<i>Genyonemus lineatus</i>	White croaker	West Coast Annual
<i>Gibbesia neglecta</i>	Lesser mantis shrimp	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Glyptocephalus cynoglossus</i>	Witch flounder	Northeast US Fall, Northeast US Spring Aleutian Islands, Eastern Bering Sea, Gulf of Alaska, West Coast Annual, West
<i>Glyptocephalus zachirus</i>	Rex sole	Coast Triennial, Bering Sea Combined Aleutian Islands, Eastern Bering Sea, Northern Bering Sea, Gulf of Alaska, West Coast Triennial, Bering Sea
<i>Gorgonocephalus eucnemis</i>	Basket star	Combined
<i>Gymnophorus galeatus</i>	Armorhead sculpin	Aleutian Islands
<i>Gymnophorus pistilliger</i>	Threaded sculpin	Northern Bering Sea, Bering Sea Combined
<i>Gymnothorax saxicola</i>	Honeycomb moray	Gulf of Mexico
<i>Gymnura micrura</i>	Smooth butterfly ray	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Haemulon aurolineatum</i>	Tomtate grunt	Gulf of Mexico
<i>Haemulon plumieri</i>	White grunt	Gulf of Mexico
<i>Halieutichthys</i> sp	Batfishes	Gulf of Mexico
<i>Halocyynthia aurantium</i>	Sea peach	Aleutian Islands
<i>Harengula jaguana</i>	Scaled sardine	Gulf of Mexico, Southeast US Fall

<i>Hemilepidotus jordani</i>	Yellow irish lord	Aleutian Islands, Eastern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Hemilepidotus papilio</i>	Butterfly sculpin	Eastern Bering Sea, Bering Sea Combined
<i>Hemitripterus americanus</i>	Sea raven	Northeast US Fall, Northeast US Spring
<i>Hemitripterus bolini</i>	Bigmouth sculpin	Eastern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Hepatus epheliticus</i>	Calico box crab	Southeast US Spring, Southeast US Summer
<i>Heterozonias alternatus</i>	Canonball sun star	West Coast Annual
<i>Hexagrammos stelleri</i>	Whitespotted greenling	Northern Bering Sea, Bering Sea Combined
<i>Hippasteria californica</i>	Californian spiny star	West Coast Annual
<i>Hippasteria phrygiana</i>	Arctic cushion star	West Coast Annual
<i>Hippocampus erectus</i>	Lined seahorse	Gulf of Mexico
<i>Hippoglossina oblonga</i>	American fourspot flounder	Northeast US Fall, Northeast US Spring
<i>Hippoglossoides elassodon</i>	Flathead sole	Aleutian Islands, Gulf of Alaska, West Coast Annual, West Coast Triennial
<i>Hippoglossoides elassodon</i> and <i>H. robustus</i>	Flathead sole-bering flounder	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Hippoglossoides platessoides</i>	American plaice	Northeast US Fall, Northeast US Spring
<i>Hippoglossus hippoglossus</i>	Atlantic halibut	Northeast US Fall, Northeast US Spring Aleutian Islands, Eastern Bering Sea, Northern Bering Sea, Gulf of Alaska, West Coast Annual, West Coast Triennial, Bering Sea Combined
<i>Hippoglossus stenolepis</i>	Pacific halibut	Aleutian Islands
<i>Histodermella kagigunensis</i>	Spud sponge	Northeast US Fall, Northeast US Spring
<i>Homarus americanus</i>	American lobster	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Hyas coarctatus</i>	Arctic lyre crab	Aleutian Islands, Eastern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Hyas lyratus</i>	Pacific lyre crab	Gulf of Alaska, West Coast Annual, West Coast Triennial
<i>Hydrolagus colliei</i>	Spotted ratfish	Southeast US Summer
<i>Hypanus americanus</i>	Southern stingray	Southeast US Fall
<i>Hypanus sabinus</i>	Atlantic stingray	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Hypanus say</i>	Bluntnose stingray	West Coast Annual, West Coast Triennial
<i>Icelinus filamentosus</i>	Threadfin sculpin	Eastern Bering Sea, Bering Sea Combined
<i>Icelus spiniger</i>	Thorny sculpin	Northeast US Fall, Northeast US Spring
<i>Illex illecebrosus</i>	Northern shortfin squid	Gulf of Alaska
<i>Isopsetta isolepis</i>	Butter sole	Gulf of Mexico
<i>Kathetostoma alboguttata</i>	Lancer stargazer	

<i>Labidochirus splendescens</i>	Splendid hermit	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Lagocephalus laevigatus</i>	Smooth puffer	Gulf of Mexico Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US
<i>Lagodon rhomboides</i>	Pinfish	Summer Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US
<i>Larimus fasciatus</i>	Banded drum	Summer
<i>Leiolambrus nitidus</i>	White elbow crab	Gulf of Mexico Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US
<i>Leiostomus xanthurus</i>	Spot	Summer Aleutian Islands, Eastern Bering Sea, Northern Bering Sea, Gulf of Alaska, West Coast Triennial, Bering Sea
<i>Lepidopsetta</i> sp.	Rock soles	Combined
<i>Lepophidium brevibarbe</i>	Blackedge cusk-eel	Gulf of Mexico
<i>Lepophidium jeannae</i>	Mottled cusk-eel	Gulf of Mexico
<i>Lepophidium profundorum</i>	Fawn cusk-eel	Northeast US Fall
<i>Leptasterias</i> (<i>Hexasterias</i>) <i>polaris</i>	Polar six-rayed star	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Leptasterias arctica</i>	Arctic star	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined Aleutian Islands, Eastern Bering Sea, Northern Bering Sea, Gulf of Alaska,
<i>Lethasterias nanimensis</i>	Black spined sea star	Bering Sea Combined
<i>Leucoraja erinaceus</i>	Little skate	Northeast US Fall, Northeast US Spring
<i>Leucoraja garmani</i>	Rosette skate	Northeast US Fall, Northeast US Spring
<i>Leucoraja ocellata</i>	Winter skate	Northeast US Fall, Northeast US Spring Eastern Bering Sea, Northern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Limanda aspera</i>	Yellowfin sole	Northern Bering Sea, Bering Sea
<i>Limanda sakhalinensis</i>	Sakhalin sole	Combined Northeast US Fall, Northeast US Spring
<i>Limulus polyphemus</i>	Horseshoe crab	Southeast US Spring Northern Bering Sea, Bering Sea
<i>Liparis gibbus</i>	Variegated snailfish	Combined
	Tentacle shedding	
<i>Liponema brevicorne</i>	anemone	West Coast Annual
<i>Lithodes aequispinus</i>	Golden king crab	Aleutian Islands
<i>Lithodes couesi</i>	Scarlet king crab	West Coast Annual Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US
<i>Lolliguncula brevis</i>	Atlantic brief squid	Summer
<i>Lophius americanus</i>	Monkfish	Northeast US Fall, Northeast US Spring

<i>Luidia clathrata</i>	Lined sea star	Gulf of Mexico
<i>Luidia foliolata</i>	Gray sand star	West Coast Annual
<i>Lumpenus fabricii</i>	Slender eelblenny	Northern Bering Sea, Bering Sea
<i>Lutjanus campechanus</i>	Red snapper	Combined
<i>Lutjanus griseus</i>	Gray snapper	Gulf of Mexico
<i>Lutjanus synagris</i>	Lane snapper	Gulf of Mexico
<i>Lycenchelys crotalinus</i>	Snakehead eelpout	West Coast Annual
<i>Lycodes brevipes</i>	Shortfin eelpout	Eastern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Lycodes cortezianus</i>	Bigfin eelpout	West Coast Annual, West Coast Triennial
<i>Lycodes diapterus</i>	Black eelpout	West Coast Annual
<i>Lycodes pacificus</i>	Blackbelly eelpout	West Coast Annual, West Coast Triennial
<i>Lycodes palearis</i>	Wattled eelpout	Eastern Bering Sea, Northern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Lycodes turneri</i>	Polar eelpout	Northern Bering Sea, Bering Sea Combined
<i>Lyopsetta exilis</i>	Slender sole	Gulf of Alaska, West Coast Annual, West Coast Triennial
<i>Mactromeris polynyma</i>	Arctic surfclam	Eastern Bering Sea, Bering Sea Combined
<i>Malacocottus zonurus</i>	Darkfin sculpin	Aleutian Islands, Gulf of Alaska
<i>Malacoraja senta</i>	Smooth skate	Northeast US Fall, Northeast US Spring
<i>Mallotus villosus</i>	Capelin	Eastern Bering Sea, Northern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Mediaster aequalis</i>	Vermillion star	West Coast Annual
<i>Melanogrammus aeglefinus</i>	Haddock	Northeast US Fall, Northeast US Spring
<i>Menticirrhus americanus</i>	Southern kingfish	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Menticirrhus littoralis</i>	Gulf kingfish	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Merluccius albidus</i>	Offshore hake	Northeast US Fall, Northeast US Spring
<i>Merluccius bilinearis</i>	Silver hake	Northeast US Fall, Northeast US Spring
<i>Merluccius productus</i>	Pacific hake	West Coast Annual, West Coast Triennial
<i>Metacarcinus magister</i>	Dungeness crab	West Coast Annual, West Coast Triennial
<i>Metapenaeopsis goodei</i>	Caribbean velvet shrimp	Gulf of Mexico
<i>Metridium farcimen</i>	Giant plumose anemone	West Coast Annual
<i>Microgadus proximus</i>	Pacific tomcod	West Coast Triennial
		Gulf of Mexico, Northeast US Fall, Northeast US Spring, Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Micropogonias undulatus</i>	Atlantic croaker	West Coast Annual
<i>Microstomus bathybius</i>	Deep-sea sole	Aleutian Islands, Gulf of Alaska, West Coast Annual, West Coast Triennial
<i>Microstomus pacificus</i>	Dover sole	

<i>Molpadia intermedia</i>	Sweet potato sea cucumber	West Coast Annual
<i>Monacanthus ciliatus</i>	Fringed filefish	Gulf of Mexico
<i>Monanchora pulchra</i>	Yellow leafy sponge	Aleutian Islands
<i>Moreiradromia antillensis</i>	Hairy sponge crab	Gulf of Mexico
<i>Mullus auratus</i>	Red goatfish	Gulf of Mexico
<i>Mustelus canis</i>	Smooth dogfish	Northeast US Fall, Southeast US Spring
<i>Mycale (Mycale) loveni</i>	Loven's horny sponge	Aleutian Islands
<i>Myliobatis freminvillei</i>	Bullnose eagle ray	Southeast US Spring
<i>Myoxocephalus jaok</i>	Plain sculpin	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Myoxocephalus octodecemspinosus</i>	Longhorn sculpin	Northeast US Fall, Northeast US Spring
<i>Myoxocephalus polyacanthocephalus</i>	Great sculpin	Aleutian Islands, Eastern Bering Sea, Northern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Myoxocephalus scorpius</i>	Shorthorn sculpin	Northern Bering Sea, Bering Sea Combined
<i>Myxoderma platyacanthum</i>	NA	West Coast Annual
<i>Myzopsetta ferruginea</i>	Yellowtail flounder	Northeast US Fall, Northeast US Spring
<i>Myzopsetta proboscidea</i>	Longhead dab	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Nearchester (Nearchester) aciculosus</i>	Needle spined fragile star	West Coast Annual
<i>Neptunea amianta</i>	White neptune	West Coast Annual
<i>Neptunea borealis</i>	NA	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Neptunea heros</i>	Northern neptune whelk	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Neptunea lyrata</i>	Lyre whelk	Eastern Bering Sea, Bering Sea Combined
<i>Neptunea pribiloffensis</i>	Pribilof whelk	Eastern Bering Sea, Bering Sea Combined
<i>Neptunea ventricosa</i>	Fat whelk	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Nezumia stelgidolepis</i>	California grenadier	West Coast Annual
<i>Nicholsina usta</i>	Emerald parrotfish	Gulf of Mexico
<i>Occella dodecaedron</i>	Bering poacher	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Octopoteuthis deletron</i>	Octopus squid	West Coast Annual
<i>Ogcocephalus declivirostris</i>	Slantbrow batfish	Gulf of Mexico
<i>Ogcocephalus parvus</i>	Roughback batfish	Gulf of Mexico
<i>Oncorhynchus tshawytscha</i>	Chinook salmon	West Coast Triennial
<i>Ophidion holbrookii</i>	Bank cusk-eel	Gulf of Mexico
<i>Ophiodon elongatus</i>	Lingcod	Gulf of Alaska, West Coast Annual, West Coast Triennial

<i>Ophiolepis elegans</i>	Elegant brittle star	Gulf of Mexico
<i>Ophiopholis aculeata</i>	Daisy brittle star	Aleutian Islands
<i>Ophiura sarsii</i>	Notched brittle star	Northern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Opisthonema oglinum</i>	Atlantic thread herring	Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US
<i>Opisthoteuthis californiana</i>	Flapjack octopus	Summer
<i>Oregonia gracilis</i>	Graceful decorator crab	West Coast Annual
<i>Orthopristis chrysoptera</i>	Pigfish	Aleutian Islands, Eastern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Osmerus mordax</i>	Rainbow smelt	Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US
<i>Ovalipes ocellatus</i>	Ocellate lady crab	Summer
<i>Ovalipes stephensi</i>	Coarsehand lady crab	Northern Bering Sea, Bering Sea
<i>Pagurus aleuticus</i>	Aleutian hermit	Combined
<i>Pagurus brandti</i>	Sponge hermit	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Pagurus capillatus</i>	Hairy hermit crab	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Pagurus ochotensis</i>	Alaskan hermit crab	Eastern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Pagurus pollicaris</i>	Gray hermit crab	Aleutian Islands
<i>Pagurus rathbuni</i>	Longfinger hermit	Northern Bering Sea, Bering Sea
<i>Pagurus trigonocheirus</i>	Fuzzy hermit	Combined
<i>Pallasina barbata</i>	Tubenose poacher	Northeast US Fall
<i>Pandalus borealis</i>	Atlantic northern shrimp	Gulf of Alaska
<i>Pandalus dispar</i>	Sidestripe shrimp	Aleutian Islands, Eastern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Pandalus eous</i>	Northern shrimp	Northern Bering Sea, Bering Sea
<i>Pandalus goniurus</i>	Humpy shrimp	Combined
<i>Pandalus jordani</i>	Ocean shrimp	Gulf of Alaska, West Coast Annual, West Coast Triennial
<i>Pandalus platyceros</i>	Spot shrimp	West Coast Annual
<i>Pandalus tridens</i>	Yellowleg pandalid	Aleutian Islands
<i>Paralichthys dentatus</i>	Summer flounder	Northeast US Fall, Northeast US Spring, Southeast US Fall, Southeast US Spring, Southeast US Summer

<i>Paralichthys lethostigma</i>	Southern flounder	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Paralithodes camtschaticus</i>	Red king crab	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Paralithodes platypus</i>	Blue king crab	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Pareques umbrosus</i>	Cubbyu	Gulf of Mexico
<i>Parmaturus xaniurus</i>	Filetail catshark	West Coast Annual
<i>Parophrys vetulus</i>	English sole	Gulf of Alaska, West Coast Annual, West Coast Triennial
<i>Pasiphaea pacifica</i>	Pacific glass shrimp	Gulf of Alaska, West Coast Annual
<i>Pasiphaea tarda</i>	Crimson pasiphaeid	West Coast Annual
<i>Penaeus aztecus</i>	Brown shrimp	Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Penaeus duorarum</i>	Pink shrimp	Gulf of Mexico, Southeast US Spring
<i>Penaeus setiferus</i>	Northern white shrimp	Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Peprilus burti</i>	Gulf butterfish	Gulf of Mexico
<i>Peprilus paru</i>	Harvestfish	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Peprilus triacanthus</i>	American butterfish	Northeast US Fall, Northeast US Spring, Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Persephona mediterranea</i>	Mottled purse crab	Southeast US Spring, Southeast US Summer
<i>Phycis chesteri</i>	Longfin hake	Northeast US Fall, Northeast US Spring
<i>Pitarenus cordatus</i>	Corded pitar	Gulf of Mexico
<i>Placopecten magellanicus</i>	Atlantic sea scallop	Northeast US Fall, Northeast US Spring
<i>Platichthys stellatus</i>	Starry flounder	Eastern Bering Sea, Northern Bering Sea, Gulf of Alaska, Bering Sea Combined
<i>Platylambrus granulatus</i>	Bladetooth elbow crab	Gulf of Mexico
<i>Platymera gaudichaudii</i>	Armed box crab	West Coast Annual
<i>Pleurobranchaea californica</i>	NA	West Coast Annual
<i>Pleurogrammus monopterygius</i>	Atka mackerel	Aleutian Islands, Gulf of Alaska
<i>Pleuronectes quadrifasciatus</i>	Alaska plaice	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Pleuronichthys decurrens</i>	Curlfin sole	West Coast Annual
<i>Plicifusus kroyeri</i>	Arctic whelk	Eastern Bering Sea, Bering Sea Combined
<i>Pododesmus macrochisma</i>	Green falsejingle	Aleutian Islands
<i>Podothecus accipenserinus</i>	Sturgeon poacher	Aleutian Islands, Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined

<i>Podothecus veterinus</i>	Veteran poacher	Northern Bering Sea, Bering Sea
<i>Pollachius virens</i>	Pollock	Combined
		Northeast US Fall, Northeast US Spring
		Northeast US Fall, Southeast US Fall,
		Southeast US Spring, Southeast US
		Summer
<i>Pomatomus saltatrix</i>	Bluefish	West Coast Annual, West Coast Triennial
<i>Porichthys notatus</i>	Plainfin midshipman	Gulf of Mexico
<i>Porichthys plectrodon</i>	Atlantic midshipman	Gulf of Mexico
<i>Prionotus alatus</i>	Spiny searobin	Northeast US Fall, Northeast US Spring,
		Southeast US Fall, Southeast US Spring,
		Southeast US Summer
<i>Prionotus carolinus</i>	Northern searobin	Southeast US Fall, Southeast US Spring,
		Southeast US Summer
<i>Prionotus evolans</i>	Striped searobin	Gulf of Mexico
<i>Prionotus longispinosus</i>	Bigeye searobin	Gulf of Mexico
<i>Prionotus ophryas</i>	Bandtail searobin	Gulf of Mexico
<i>Prionotus paralatus</i>	Mexican searobin	Gulf of Mexico
<i>Prionotus roseus</i>	Bluespotted searobin	Gulf of Mexico
		Gulf of Mexico, Southeast US Fall,
<i>Prionotus rubio</i>	Blackwing searobin	Southeast US Summer
		Southeast US Fall, Southeast US Spring,
<i>Prionotus scitulus</i>	Leopard searobin	Southeast US Summer
<i>Prionotus stearnsi</i>	Shortwing searobin	Gulf of Mexico
		Southeast US Fall, Southeast US Spring,
<i>Prionotus tribulus</i>	Bighead searobin	Southeast US Summer
<i>Pristipomoides aquilonaris</i>	Wenchman	Gulf of Mexico
<i>Pseudopleuronectes americanus</i>	Winter flounder	Northeast US Fall, Northeast US Spring
<i>Pseudostichopus mollis</i>	Sandy sea cucumber	West Coast Annual
<i>Pteraster militaris</i>	Wrinkled sea star	Aleutian Islands
		Eastern Bering Sea, Bering Sea
<i>Pteraster obscurus</i>	Obscure cushion star	Combined
<i>Pycnopodia helianthoides</i>	Sunflower sea star	Gulf of Alaska
<i>Raninoides louisianensis</i>	Gulf frog crab	Gulf of Mexico
<i>Rathbunaster californicus</i>	California sun star	West Coast Annual
		Eastern Bering Sea, Bering Sea
<i>Reinhardtius hippoglossoides</i>	Greenland halibut	Combined
<i>Renilla muelleri</i>	Mueller's sea pansy	Gulf of Mexico
<i>Rhinoptera bonasus</i>	Cownose ray	Southeast US Fall, Southeast US Spring
		Gulf of Mexico, Northeast US Fall,
		Southeast US Fall, Southeast US Spring,
<i>Rhizoprionodon terraenovae</i>	Atlantic sharpnose shark	Southeast US Summer
<i>Rhomboplites aurorubens</i>	Vermilion snapper	Gulf of Mexico
<i>Rossia pacifica</i>	Eastern pacific bobtail	Aleutian Islands, West Coast Annual

<i>Rostroraja eglanteria</i>	Clearnose skate	Gulf of Mexico, Northeast US Fall, Northeast US Spring, Southeast US Fall, Southeast US Spring
<i>Rostroraja texana</i>	Roundel skate	Gulf of Mexico
<i>Sagenaster evermanni</i>	Evermann's star	West Coast Annual
<i>Sardinella aurita</i>	Spanish sardine	Gulf of Mexico
<i>Sarritor frenatus</i>	Sawback poacher	Aleutian Islands, Eastern Bering Sea, Bering Sea Combined
<i>Saurida brasiliensis</i>	Largescale lizardfish	Gulf of Mexico
<i>Saurida normani</i>	Shortjaw lizardfish	Gulf of Mexico
<i>Sclerocrangon boreas</i>	Sculptured shrimp	Northern Bering Sea, Bering Sea Combined
<i>Scomber scombrus</i>	Atlantic mackerel	Northeast US Spring
<i>Scomberomorus cavalla</i>	King mackerel	Southeast US Fall, Southeast US Summer
<i>Scomberomorus maculatus</i>	Spanish mackerel	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Scophthalmus aquosus</i>	Windowpane flounder	Northeast US Fall, Northeast US Spring, Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Scorpaena agassizii</i>	Longfin scorpionfish	Gulf of Mexico
<i>Scorpaena brasiliensis</i>	Barbfish	Gulf of Mexico
<i>Scorpaena calcarata</i>	Smoothhead scorpionfish	Gulf of Mexico
<i>Scyllarides nodifer</i>	Ridged slipper lobster	Gulf of Mexico
<i>Scyllarus chacei</i>	Chace slipper lobster	Gulf of Mexico
<i>Sebastes alutus</i>	Pacific ocean perch	Aleutian Islands, Gulf of Alaska, West Coast Annual, West Coast Triennial
<i>Sebastes aurora</i>	Aurora rockfish	West Coast Annual
<i>Sebastes babcocki</i>	Redbanded rockfish	Gulf of Alaska, West Coast Annual, West Coast Triennial
<i>Sebastes borealis</i>	Shortraker rockfish	Aleutian Islands, Gulf of Alaska
<i>Sebastes brevispinis</i>	Silvergray rockfish	Gulf of Alaska
<i>Sebastes chlorostictus</i>	Greenspotted rockfish	West Coast Annual
<i>Sebastes crameri</i>	Darkblotched rockfish	West Coast Annual, West Coast Triennial
<i>Sebastes diploproa</i>	Splitnose rockfish	West Coast Annual, West Coast Triennial
<i>Sebastes elongatus</i>	Greenstriped rockfish	West Coast Annual, West Coast Triennial
<i>Sebastes entomelas</i>	Widow rockfish	West Coast Triennial
<i>Sebastes fasciatus</i>	Acadian redfish	Northeast US Fall, Northeast US Spring
<i>Sebastes flavidus</i>	Yellowtail rockfish	West Coast Annual, West Coast Triennial
<i>Sebastes goodei</i>	Chilipepper rockfish	West Coast Annual, West Coast Triennial
<i>Sebastes helvomaculatus</i>	Rosethorn rockfish	West Coast Annual, West Coast Triennial
<i>Sebastes jordani</i>	Shortbelly rockfish	West Coast Annual, West Coast Triennial
<i>Sebastes melanostictus</i> and <i>S. aleutianus</i>	Blackspotted and rougheye rockfish	Aleutian Islands, Gulf of Alaska, West Coast Triennial
<i>Sebastes paucispinis</i>	Bocaccio	West Coast Annual, West Coast Triennial

<i>Sebastes pinniger</i>	Canary rockfish	West Coast Annual, West Coast Triennial
<i>Sebastes polypinnis</i>	Northern rockfish	Aleutian Islands, Gulf of Alaska
<i>Sebastes proriger</i>	Redstripe rockfish	West Coast Triennial
<i>Sebastes saxicola</i>	Stripetail rockfish	West Coast Annual, West Coast Triennial
<i>Sebastes semicinctus</i>	Halfbanded rockfish	West Coast Annual
<i>Sebastes variabilis</i> and <i>S. ciliatus</i>	Dusky and dark rockfish	Aleutian Islands, Gulf of Alaska
<i>Sebastes zacentrus</i>	Sharpchin rockfish	Gulf of Alaska, West Coast Annual, West Coast Triennial
<i>Sebastolobus alascanus</i>	Shortspine thornyhead	Aleutian Islands, Gulf of Alaska, West Coast Annual, West Coast Triennial
<i>Sebastolobus altivelis</i>	Longspine thornyhead	West Coast Annual
<i>Selene setapinnis</i>	Atlantic moonfish	Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Selene vomer</i>	Lookdown	Southeast US Fall, Southeast US Summer
<i>Serranus atrobranchus</i>	Blackear bass	Gulf of Mexico
<i>Serranus notospilus</i>	Saddle bass	Gulf of Mexico
<i>Serranus phoebe</i>	Tattler	Gulf of Mexico
<i>Serripes notabilis</i>	Oblique smoothcockle	Combined
<i>Sicyonia brevirostris</i>	Brown rock shrimp	Gulf of Mexico
<i>Sicyonia dorsalis</i>	Lesser rock shrimp	Gulf of Mexico
<i>Solenocera atlantidis</i>	Dwarf humpback shrimp	Gulf of Mexico
<i>Solenocera vioscai</i>	Humpback shrimp	Gulf of Mexico
<i>Sphoeroides dorsalis</i>	Marbled puffer	Gulf of Mexico
<i>Sphoeroides maculatus</i>	Northern puffer	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Sphoeroides parvus</i>	Least puffer	Gulf of Mexico
<i>Sphoeroides spengleri</i>	Bandtail puffer	Gulf of Mexico
<i>Sphyraena guachancho</i>	Guachanche barracuda	Southeast US Fall, Southeast US Summer
<i>Sphyraena tiburo</i>	Bonnethead	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Squalus acanthias</i>	Spiny dogfish	Northeast US Fall, Northeast US Spring
<i>Squalus suckleyi</i>	Pacific spiny dogfish	Gulf of Alaska, West Coast Annual, West Coast Triennial
<i>Squilla chydaea</i>	Offshore mantis shrimp	Gulf of Mexico
<i>Squilla empusa</i>	Mantis shrimp	Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Stegophiura ponderosa</i>	NA	Gulf of Alaska
<i>Stellifer lanceolatus</i>	Star drum	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Stenorhynchus seticornis</i>	Yellowline arrow crab	Gulf of Mexico
<i>Stenotomus caprinus</i>	Longspine porgy	Gulf of Mexico

<i>Stenotomus chrysops</i>	Scup	Northeast US Fall Gulf of Mexico, Southeast US Fall, Southeast US Summer
<i>Stephanolepis hispida</i>	Planehead filefish	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Strongylocentrotus droebachiensis</i>	Green sea urchin	Gulf of Alaska
<i>Strongylocentrotus fragilis</i>	Fragile sea urchin	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Styela rustica</i>	Sea potato	West Coast Annual
<i>Stylasterias forreri</i>	Velcro star	Gulf of Mexico
<i>Stylocidaris affinis</i>	Pencil urchin	Gulf of Mexico
<i>Syacium gunteri</i>	Shoal flounder	Gulf of Mexico
<i>Syacium papillosum</i>	Dusky flounder	Gulf of Mexico
<i>Symphurus diomedeanus</i>	Spottedfin tonguefish	Gulf of Mexico
<i>Symphurus plagiura</i>	Blackcheek tonguefish	Southeast US Fall, Southeast US Spring Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Synodus foetens</i>	Inshore lizardfish	Gulf of Mexico
<i>Synodus intermedius</i>	Sand diver	Gulf of Mexico
<i>Synodus poeyi</i>	Offshore lizardfish	Gulf of Mexico
<i>Talismania bifurcata</i>	Threadfin slickhead	West Coast Annual
<i>Tedania (Tedania) kagalaskai</i>	NA	Aleutian Islands
<i>Telmessus cheiragonus</i>	Helmet crab	Eastern Bering Sea, Northern Bering Sea, Bering Sea Combined
<i>Thaleichthys pacificus</i>	Eulachon	Eastern Bering Sea, Gulf of Alaska, West Coast Triennial, Bering Sea Combined
<i>Thrissacanthias penicillatus</i>	NA	West Coast Annual
<i>Trachinocephalus myops</i>	Snakefish	Gulf of Mexico
<i>Trachinotus carolinus</i>	Florida pompano	Southeast US Fall
<i>Trachurus lathami</i>	Rough scad	Gulf of Mexico
<i>Trichiurus lepturus</i>	Atlantic cutlassfish	Gulf of Mexico, Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Trichopsetta ventralis</i>	Sash flounder	Gulf of Mexico
<i>Triglops forficatus</i>	Scissortail sculpin	Aleutian Islands
<i>Triglops pingelii</i>	Ribbed sculpin	Northern Bering Sea, Bering Sea Combined
<i>Triglops scepticus</i>	Spectacled sculpin	Aleutian Islands
<i>Trinectes maculatus</i>	Hogchoker	Southeast US Fall, Southeast US Spring, Southeast US Summer
<i>Tritonia tetraquetra</i>	Large orange peel nudibranch	West Coast Annual
<i>Upeneus parvus</i>	Dwarf goatfish	Gulf of Mexico
<i>Urophycis chuss</i>	Red hake	Northeast US Fall, Northeast US Spring
<i>Urophycis floridana</i>	Southern hake	Gulf of Mexico

<i>Urophycis regia</i>	Spotted hake	Northeast US Fall, Northeast US Spring, Southeast US Spring
<i>Urophycis tenuis</i>	White hake	Northeast US Fall, Northeast US Spring
<i>Xiphopenaeus kroyeri</i>	Atlantic seabob	Southeast US Fall
<i>Xyrichtys novacula</i>	Pearly razorfish	Gulf of Mexico
<i>Zalembius rosaceus</i>	Pink seaperch	West Coast Annual, West Coast Triennial
<i>Zaniolepis latipinnis</i>	Longspine combfish	West Coast Annual
<i>Zaprora silenus</i>	Prowfish	Aleutian Islands
<i>Zoarces americanus</i>	Ocean pout	Northeast US Fall, Northeast US Spring

APPENDIX II: SPECIES CHANGES FROM 2023 DATA

Species removed/changed:

spp	common	FilterSubRegion	Reason for removal
<i>Astropecten duplicatus</i>	Two-spined star fish	Gulf of Mexico	<i>Astropecten</i> combined to genus level in GMEX due to identification issues, and dropped from analysis
<i>Astropecten cingulatus</i>		Gulf of Mexico	<i>Astropecten</i> combined to genus level in GMEX due to identification issues, and dropped from analysis
<i>Doryteuthis pealeii</i>	Longfin inshore squid	Gulf of Mexico	<i>Doryteuthis</i> combined to a genus complex, and now reported as <i>Doryteuthis</i> sp
<i>Doryteuthis pleii</i>	Slender inshore squid	Gulf of Mexico	<i>Doryteuthis</i> combined to a genus complex, and now reported as <i>Doryteuthis</i> sp
<i>Halieutichthys aculeatus</i>	Pancake batfish	Gulf of Mexico	<i>Halieutichthys</i> combined to a genus complex, and now reported as <i>Halieutichthys</i> sp
<i>Limanda proboscidea</i>	Longhead dab	Eastern Bering Sea	Name change
<i>Amusium papyraceum</i>	Paper scallop	Gulf of Mexico	Name change
<i>Raja texana</i>	Roundel skate	Gulf of Mexico	Name change
<i>Leucoraja erinacea</i>	Little skate	Northeast	Name change
<i>Limanda ferruginea</i>	Yellowtail flounder	Northeast	Name change
<i>Limanda proboscidea</i>	Longhead dab	Northern Bering Sea	Name change
<i>Loligo</i> spp.	Loligo squid	Southeast	Name change
<i>Embassichthys bathybius</i>	Deep-sea sole	West Coast	Name change
<i>Nearchester aciculosus</i>	Needle spined fragile star	West Coast	Name change
<i>Lycodes raridens</i>	Marbled eelpout	Eastern Bering Sea	no longer meets prevalence criteria
<i>Bathyraja</i> spp.	Skate complex	Eastern Bering Sea	no longer meets prevalence criteria
<i>Metridium farcimen</i>	Giant plumose anemone	Gulf of Alaska	no longer meets prevalence criteria
<i>Sebastes variegatus</i>	Harlequin rockfish	Gulf of Alaska	no longer meets prevalence criteria
<i>Mycale</i> (<i>Mycale</i>) <i>loveni</i>	Loven's horny sponge	Gulf of Alaska	no longer meets prevalence criteria

<i>Pseudarchaster parellii</i>	Northern scarlet star	Gulf of Alaska	no longer meets prevalence criteria
<i>Sympodus plagiusa</i>	Blackcheek tonguefish	Gulf of Mexico	no longer meets prevalence criteria
<i>Pagrus pagrus</i>	Red porgy	Gulf of Mexico	no longer meets prevalence criteria
<i>Chrysaora quinquecirrha</i>	Sea nettle	Gulf of Mexico	no longer meets prevalence criteria
<i>Leptasterias groenlandica</i>	Greenland star	Northern Bering Sea	no longer meets prevalence criteria
<i>Bathyraja</i> spp.	Skate complex	Northern Bering Sea	no longer meets prevalence criteria
<i>Ariopsis felis</i>	Hardhead catfish	Southeast	no longer meets prevalence criteria

Species added/changed:

spp	common	FilterSubRegion	Reason Added
<i>Anchoa</i> spp.	Anchovies	Southeast	Decided to keep higher level Anchoa complex in analysis
<i>Doryteuthis</i> sp	Inshore Squid sp.	Gulf of Mexico	Doryteuthis combined to a genus complex, and now reported as <i>Doryteuthis</i> sp
<i>Halieutichthys</i> sp	Batfishes	Gulf of Mexico	Halieutichthys combined to a genus complex, and now reported as <i>Halieutichthys</i> sp
<i>Myzopsetta proboscidea</i>	Longhead dab	Eastern Bering Sea	Name change
<i>Euvola marenensis</i>	Paper scallop	Gulf of Mexico	Name change
<i>Rostroraja texana</i>	Roundel skate	Gulf of Mexico	Name change
<i>Myzopsetta ferruginea</i>	Yellowtail flounder	Northeast	Name change
<i>Myzopsetta proboscidea</i>	Longhead dab	Northern Bering Sea	Name change
<i>Microstomus bathybius</i>	Deep-sea sole	West Coast	Name change
<i>Nearctocephalus</i> (<i>Nearctocephalus</i>) <i>aciculosus</i>	Needle spined fragile star	West Coast	Name change
<i>Doryteuthis</i> sp	Inshore Squid sp.	Southeast	Name change from <i>Loligo</i> sp to <i>Doryteuthis</i> sp
<i>Arctoraja</i> <i>parmifera</i>	Alaska skate	Northern Bering Sea	Name change, no longer included in <i>Bathyraja</i> complex
<i>Chilomycterus schoepfii</i>	Striped burrfish	Gulf of Mexico	Naming fix
<i>Leucoraja erinaceus</i>	Little skate	Northeast	Naming fix
<i>Pareques umbrosus</i>	Cubbyu	Gulf of Mexico	Now meets prevalence criteria
<i>Scorpaena agassizii</i>	Longfin scorpionfish	Gulf of Mexico	Now meets prevalence criteria

<i>Xyrichtys novacula</i>	Pearly razorfish	Gulf of Mexico	Now meets prevalence criteria
<i>Serranus notospilus</i>	Saddle bass	Gulf of Mexico	Now meets prevalence criteria
<i>Saurida normani</i>	Shortjaw lizardfish	Gulf of Mexico	Now meets prevalence criteria
<i>Eucinostomus gula</i>	Silver jenny	Gulf of Mexico	Now meets prevalence criteria
<i>Urophycis floridana</i>	Southern hake	Gulf of Mexico	Now meets prevalence criteria
<i>Citharichthys macrops</i>	Spotted whiff	Gulf of Mexico	Now meets prevalence criteria
<i>Limulus polyphemus</i>	Horseshoe crab	Southeast	Now meets prevalence criteria
<i>Harengula jaguana</i>	Scaled sardine	Southeast	Now meets prevalence criteria
<i>Lithodes couesi</i>	Scarlet king crab	West Coast	Now meets prevalence criteria
<i>Sebastes melanostictus</i> and <i>S. aleutianus</i>	Blackspotted and rougheye rockfish	Aleutian Islands	Result of data fix
<i>Sebastes melanostictus</i> and <i>S. aleutianus</i>	Blackspotted and rougheye rockfish	Gulf of Alaska	Result of data fix
<i>Solenocera atlantidis</i>	Dwarf humpback shrimp	Gulf of Mexico	Result of fixing bsgcodes in GMEX data processing step
<i>Nicholsina usta</i>	Emerald parrotfish	Gulf of Mexico	Result of fixing bsgcodes in GMEX data processing step
<i>Moreiradromia antillensis</i>	Hairy sponge crab	Gulf of Mexico	Result of fixing bsgcodes in GMEX data processing step
<i>Solenocera vioscai</i>	Humpback shrimp	Gulf of Mexico	Result of fixing bsgcodes in GMEX data processing step
<i>Stylocidaris affinis</i>	Pencil urchin	Gulf of Mexico	Result of fixing bsgcodes in GMEX data processing step
<i>Ogcocephalus parvus</i>	Roughback batfish	Gulf of Mexico	Result of fixing bsgcodes in GMEX data processing step
<i>Cynoscion arenarius</i>	Sand weakfish	Gulf of Mexico	Result of fixing bsgcodes in GMEX data processing step
<i>Cynoscion nothus</i>	Silver seatrout	Gulf of Mexico	Result of fixing bsgcodes in GMEX data processing step
<i>Cyclopsetta fimbriata</i>	Spotfin flounder	Gulf of Mexico	Result of fixing bsgcodes in GMEX data processing step
<i>Symphurus diomedeanus</i>	Spottedfin tonguefish	Gulf of Mexico	Result of fixing bsgcodes in GMEX data processing step
<i>Serranus phoebe</i>	Tattler	Gulf of Mexico	Result of fixing bsgcodes in GMEX data processing step

<i>Bothus robinsi</i>	Twospot flounder	Gulf of Mexico	Result of fixing bsgcodes in GMEX data processing step
<i>Haemulon plumieri</i>	White grunt	Gulf of Mexico	Result of fixing bsgcodes in GMEX data processing step

APPENDIX III: REMOVED HIGHER LEVEL TAXON

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

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

Sclerocrangon	NA
Paragorgia	NA
Psolus	NA
Myoxocephalus	Stellate sculpin
Chlamys	NA
Balanus	NA
Icelus	NA
Primnoa	NA
Pennatuloidea	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

Heteropolyypus	NA
Suberites	NA
Amphipoda	Amphipods
Chiasmodontidae	Snaketeeth 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
<i>Neoheringius</i>	NA
Melamphaidae	Bigscale fishes
Lophaster	NA
Placiphorella	NA
Boltenia	NA
Molgula	NA
Chirostylus	NA
Gersemia	NA
Synoicum	NA
Malacobottus	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
Bothrocara	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
Styelidae	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
Cryptphelia	NA
Sertulariidae	NA
Gonostomatidae	Bristlemouths
Campanulariidae	NA
Gammaridae	NA
Plumulariidae	NA
Atolla	NA
Cyanea	NA
Phacellophora	NA
Serripes	NA
Cyclohelia	NA
Asteronyx	NA
Lethotremus	NA
Japellion	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

<i>Caryophylliidae</i>	Cupcorals
<i>Icelinus</i>	NA
<i>Hiatella</i>	NA
<i>Asbestopluma</i>	NA
<i>Diaulula</i>	NA
<i>Amphiodia</i>	NA
<i>Diplopteraster</i>	NA
<i>Idmidronea</i>	NA
<i>Margarites</i>	Margarite snails
<i>Cnidaria</i>	Jellyfish and alike
<i>Parastenella</i>	NA
<i>Microporina</i>	NA
<i>Pseudostichopus</i>	NA
<i>Vulcanella</i>	NA
<i>Onchidiopsis</i>	NA
<i>Chaetognatha</i>	Arrow worms
<i>Dipsacaster</i>	NA
<i>Oregonia</i>	NA
<i>Echinocladaria</i>	NA
<i>Leptagonus</i>	NA
<i>Demospongiae</i>	Horny sponges
<i>Gymnocanthus</i>	NA
<i>Ophiuridae</i>	NA
<i>Hippodiplosia</i>	NA
<i>Volutomitra</i>	NA
<i>Anthozoa</i>	Sea anemones and corals Squids octopuses, nautilus, and ammonites
<i>Cephalopoda</i>	
<i>Pyrulofusus</i>	NA
<i>Bathyagonus</i>	NA
<i>Tarletonbeania</i>	NA
<i>Paralomis</i>	NA
<i>Chorilia</i>	NA
<i>Paralepididae</i>	Barracudinas
<i>Benthoctopus</i>	NA
<i>Gorgonocephalus</i>	NA
<i>Protoptilum</i>	NA
<i>Haliclona</i>	NA
<i>Balticina</i>	NA
<i>Ophiura</i>	NA
<i>Acanthascus</i>	NA
<i>Antipatharia</i>	Thorny corals
<i>Parantipathes</i>	NA
<i>Umbellula</i>	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
Cyclothona	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
Artemiellus	NA
Pleuronectiformes	Flatfish
Enophrys	NA
Hexagrammos	Greenlings
Lumpenus	NA
Nereis	NA
Carditidae	Cardita clams
Elassodiscus	NA
Mya	Gaper clams
Liomesus	NA
<i>Platichthys stellatus</i> x <i>pleuronectes quadrituberculatus</i>	
hybrid	NA
Pentamera	NA
Heptacarpus	NA
Tachyrhynchus	NA
Lamellariinae	NA
Oenopota	NA
Ancistrolepis	NA
Nephtyidae	Catworms
Hemithyrididae	NA
Teredinidae	Shipworms
Cribripinopsis	NA
Amphiuridae	NA
Maldanidae	Bamboo worms
Antiplanes	NA
Nucula	Nut clams
Solariella	NA
Calliostoma	NA
Calyptaeidae	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
Molpidida	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
Cirrhipathes	NA
Glypturus	NA
Poriferencothon	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
Stenacionops	NA
Aequipecten	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
Chloeria	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

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

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

Mellita	NA
Cymatium	NA
Axiopsis	NA
Goneplax	NA
Ophiactis	NA
Cassis	NA
Lophius	NA
Parexocoetus	NA
Ophiomysxa	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
Benthalabella	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
Sternopychidae	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	Greeneeyes
Ogcocephalidae	Batfishes
Echiophis	NA
Anguilliformes	NA
Stomiidae	NA
Crustacea shrimp	Crustacean shrimp
Congridae	NA
Cancridae	NA
Merluccius	NA
Sparidae	Porgies
Stelleroidea	NA
Clypeasteroida	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
Sternopyx	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 spunge
Embiotocidae	NA
Ostreoida	NA
Invertebrata	Invertebrate
Lepeta	NA
Ampheraster	NA
Zoroasteridae	NA
Scyliorhinidae	NA
Rhinobatidae	NA
Amphiophiura	NA
Platytroctidae	Tubeshoulders
Hymenodiscus	NA
Polinices	NA
Triakidae	NA
Synallactidae	NA
Anoplogastridae	NA
Vesicomyidae	NA
Apristurus	NA
Acanthephyra	NA
Gymnolaemata	NA
Graneledone	NA
Sicyonis	NA
Zoroaster	NA
Calcarides	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
Glypocrangonidae	Armored shrimps
Cryptacanthodidae	Wrymouths
Hydrolagus	NA
Zanolepidinae	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
Squatiniidae	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 IV: LIST OF SPECIES FILTERED OUT OF FINAL DATASET

Spp	common
Ablennes hians	Flat needlefish
Abrolia veranyi	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 goodei</i>	NA
<i>Agonopsis sterletus</i>	Southern spearnose poacher
<i>Agonopsis vulsa</i>	Northern spearnose poacher
<i>Agriopoma texasanum</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>Alcyonium disciforme</i>	NA
<i>Alcyonium enteromorpha</i>	NA
<i>Alcyonium 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 ungak</i>	Whiskered snailfish
<i>Allocyttus 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 chrysocloris</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 intrinsecus</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 moonsnail
<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>Ampheraster 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) diomedaeae</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>Anchistiooides 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 latus</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 lump sucker

<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>Architeconica 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 tamikoae</i>	NA
<i>Arctonoë vittata</i>	Red banded commensal scaleworm
<i>Arctozenus risso</i>	Spotted barracudina
<i>Areopaguristes hummi</i>	NA
<i>Areopaguristes oxyophthalmus</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>	Spliteye 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>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>	Spinnose 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>Asteroporpora (Asteroporpora) annulata</i>	NA
<i>Asteroschema sublaeve</i>	NA
<i>Asthenactis fisheri</i>	Fisher's myxasterid
<i>Astrapogon alutus</i>	Bronze cardinalfish
<i>Astrapogon punciculatus</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 tatafilius</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>Ballistes 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 infraspinatus</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>Bathylychnops exilis</i>	Javelin spookfish
<i>Bathymaster caeruleofasciatus</i>	Alaskan ronquil
<i>Bathymaster leuolepis</i>	Smallmouth ronquil
<i>Bathynectes longispina</i>	Bathyal swimming crab
<i>Bathypathes patula</i>	Patulous black coral
<i>Bathypolypus arcticus</i>	North atlantic octopus
<i>Bathytoshia centroura</i>	Roughtail stingray
<i>Belknapchiton alveolus</i>	NA
<i>Belknapchiton belknapi</i>	NA

<i>Bellator brachy chir</i>	Shortfin searobin
<i>Bellator egretta</i>	Streamer searobin
<i>Bellator xenisma</i>	Splitnose searobin
<i>Bembrops anatirostris</i>	Duckbill flathead
<i>Bembrops gobioides</i>	Goby flathead
<i>Benthalbella dentata</i>	Northern pearleye
<i>Benthodesmus pacificus</i>	North pacific frostfish
<i>Benthodesmus simonyi</i>	Simony's frostfish
<i>Beringius aleuticus</i>	NA
<i>Beringius behringii</i>	Behring's whelk
<i>Beringius crebricostatus</i>	Thick cord whelk
<i>Beringius eyerdami</i>	NA
<i>Beringius kennicottii</i>	Rotund whelk
<i>Beringius rotundus</i>	NA
<i>Beringius stimpsoni</i>	Stimpson's whelk
<i>Beringius undatus</i>	NA
<i>Beringraja stellulata</i>	Starry skate
<i>Bertella idiomorpha</i>	NA
<i>Blepsias bilobus</i>	Crested sculpin
<i>Bodianus pulchellus</i>	Spotfin hogfish
<i>Bolinia euryptera</i>	Sculpin
<i>Bollmannia boqueronensis</i>	White eye goby
<i>Bollmannia communis</i>	Ragged goby
<i>Boltenia echinata</i>	Cactus sea squirt
<i>Boltenia villosa</i>	Spiny headed sea squirt
<i>Boreogennema borealis</i>	Northern blunt-tail shrimp
<i>Boreoscala greenlandica</i>	Greenland wentletrap
<i>Boreotrophon alaskanus</i>	NA
<i>Boreotrophon clathratus</i>	Clathrate trophon
<i>Boreotrophon multicostatus</i>	Ribbed trophon
<i>Boreotrophon pacificus</i>	NA
<i>Borostomias panamensis</i>	Panama snaggletooth
<i>Bothrocara hollandi</i>	NA
<i>Bothrocara molle</i>	Soft eelpout
<i>Bothrocara pusillum</i>	Alaska eelpout
<i>Bothrocara zestum</i>	NA
<i>Bothus robinsi</i>	Twospot flounder
<i>Botryllus schlosseri</i>	Golden star tunicate
<i>Brama japonica</i>	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>	Sinuous 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
<i>Calamus bajonado</i>	Jolthead porgy
<i>Calamus calamus</i>	Saucereye porgy
<i>Calamus leucosteus</i>	Whitebone porgy
<i>Calamus nodosus</i>	Knobbed porgy
<i>Calamus penna</i>	Sheepshead porgy

<i>Calappa flammea</i>	Flame box crab
<i>Calappa gallus</i>	Rough box crab
<i>Calappa ocellata</i>	Ocellated box crab
<i>Calappula tortugae</i>	NA
<i>Calcigorgia beringi</i>	Bering sea fan coral
<i>Calcigorgia spiculifera</i>	Pink gorgonian
<i>Calinaticina oldroydii</i>	Oldroyd's fragile moon snail
<i>Calliactis tricolor</i>	Hermit anemone
<i>Callianax alectona</i>	NA
<i>Callianax biplicata</i>	Purple olive snail
<i>Callidactylus asper</i>	Spurfinger purse crab
<i>Callinectes marginatus</i>	Masked swimcrab
<i>Callionymus bairdi</i>	Lancer dragonet
<i>Calliostoma euglyptum</i>	Sculptured topsnail
<i>Calliostoma jujubinum</i>	Mottled topsnail
<i>Calliostoma variegatum</i>	NA
<i>Calliotropis carlotta</i>	NA
<i>Callistephanus pacificus</i>	NA
<i>Callistephanus simplex</i>	NA
<i>Callogorgia fraseri</i>	NA
<i>Callogorgia kinoshitai</i>	NA
<i>Calypita eucymata</i>	Glory of-the-seas venus
<i>Calocarides quinqueseriatus</i>	Keeled lobster shrimp
<i>Cancellaria crawfordiana</i>	Crawford nutmeg
<i>Cancellaria reticulata</i>	Common nutmeg
<i>Cancer productus</i>	Red rock crab
<i>Cantherhines macrocerus</i>	American whitespotted filefish
<i>Cantherhines pullus</i>	Orangespotted filefish
<i>Canthidermis maculata</i>	Rough triggerfish
<i>Canthigaster jamestyleri</i>	Goldface toby
<i>Canthigaster rostrata</i>	Caribbean sharpnose-puffer
<i>Caraibops trispinosus</i>	Threespine bass
<i>Caranx bartholomaei</i>	Yellow jack
<i>Caranx hippos</i>	Crevalle jack
<i>Caranx latus</i>	Horse eye jack
<i>Caranx ruber</i>	Bar jack
<i>Carapus bermudensis</i>	Pearlfish
<i>Carcharhinus acronotus</i>	Blacknose shark
<i>Carcharhinus brevipinna</i>	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
<i>Caulolatilus microps</i>	Grey tilefish
<i>Caulolatilus princeps</i>	Ocean whitefish
<i>Caulophryne jordani</i>	Fanfin angler
<i>Celatopesia concava</i>	NA
<i>Celleporina ventricosa</i>	NA

<i>Centroscyllium fabricii</i>	Black dogfish
<i>Centroscyllium nigrum</i>	Combtooth dogfish
<i>Centrostephanus longispinosus rubricing</i>	NA
<i>Cephalopholis cruentata</i>	Graysby
<i>Cephaloscyllium ventriosum</i>	Swell shark
<i>Ceramaster arcticus</i>	Arctic cookie star
<i>Ceramaster clarki</i>	Deep sea cookie star
<i>Ceramaster japonicus</i>	Red cookie star
<i>Ceramaster leptoceramus</i>	NA
<i>Ceramaster patagonicus</i>	Cookie star
<i>Ceramaster stellatus</i>	Stellate cookie star
<i>Ceratoscopelus maderensis</i>	Madeira lantern fish
<i>Cerebratulus californiensis</i>	Ribbon worm
<i>Cerithium atratum</i>	Dark cerith
<i>Cerithium eburneum</i>	Ivory cerith
<i>Cetorhinus maximus</i>	Basking shark
<i>Chaceon fenneri</i>	Golden deepsea crab
<i>Chaenophryne draco</i>	Smooth dreamer
<i>Chaenophryne longiceps</i>	Can opener smoothdream
<i>Chaenopsis ocellata</i>	Bluethroat pikeblenny
<i>Chaetaster nodosus</i>	NA
<i>Chaetodon sedentarius</i>	Reef butterflyfish
<i>Chama congregata</i>	Corrugate jewelbox
<i>Chama macerophylla</i>	Leafy jewelbox
<i>Charybdis hellerii</i>	Spiny hands
<i>Chauliodus danae</i>	Dana viperfish
<i>Chauliodus sloani</i>	Sloane's viperfish
<i>Chaunax stigmaeus</i>	Redeye gaper
<i>Cheilonereis cylurus</i>	Red and-white-banded sea-nymph
<i>Cheilopogon cyanopterus</i>	Margined flyingfish
<i>Cheilopogon furcatus</i>	Spotfin flyingfish
<i>Cheilopogon heterurus</i>	Mediterranean flyingfish
<i>Cheilopogon melanurus</i>	Atlantic flyingfish
<i>Cheilotrema saturnum</i>	Black croaker
<i>Chelonia mydas</i>	Green sea turtle
<i>Chelyosoma orientale</i>	NA
<i>Chelyosoma productum</i>	Disc top tunicate
<i>Chesnonia verrucosa</i>	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>	Matcheek 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</i> (<i>Chondrocladia</i>)	
<i>concrecens</i>	NA
<i>Chondrocladia</i> (<i>Chondrocladia</i>) <i>grandis</i>	NA
<i>Chonospeira nuda</i>	Naked solarelle
<i>Chromis encrysurus</i>	Yellowtail reefish
<i>Chromis scotti</i>	Purple reefish
<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 caelorhincus</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>Coryphynchus lamelligerus</i>	NA
<i>Coryphynchus riisei</i>	Longfinger neck crab
<i>Coryphynchus 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
<i>Crangon dalli</i>	Ridged crangon
<i>Crangon franciscorum</i>	California bay shrimp
<i>Crangon septemspinosa</i>	Sevenspine bay shrimp
<i>Craniella arb</i>	NA
<i>Craniella craniana</i>	NA

<i>Craniella sigmoancoratum</i>	NA
<i>Craniella spinosa</i>	Spiny tennis ball sponge
<i>Craniella sputnika</i>	NA
<i>Craniella villosa</i>	Tennis ball sponge
<i>Crassadoma gigantea</i>	Giant rock-scallop
<i>Crassicardia crassidens</i>	Thick cyclocardia
<i>Crassicardia crebricostata</i>	Many rib cyclocardia
<i>Crella brunnea</i>	NA
<i>Crepidula convexa</i>	Convex slippersnail
<i>Crepidula fornicata</i>	Slipper limpet
<i>Crepidula maculosa</i>	Spotted slippersnail
<i>Crepidula plana</i>	Eastern white slippersnail
<i>Cribrinopsis fernaldi</i>	Chevron tentacle anemone
<i>Crispatotrochus foxi</i>	NA
<i>Crisularia pacifica</i>	NA
<i>Cronius ruber</i>	Red swimcrab
<i>Crossata californica</i>	California frogsnail
<i>Cryogorgia koolsae</i>	NA
<i>Cryptacanthodes aleutensis</i>	Dwarf wrymouth
<i>Cryptacanthodes giganteus</i>	Giant wrymouth
<i>Cryptacanthodes maculatus</i>	Wrymouth
<i>Cryptothelia trophostega</i>	NA
<i>Cryptochiton stelleri</i>	Giant pacific chiton
<i>Cryptolithodes typicus</i>	Butterfly king crab
<i>Cryptonatica affinis</i>	Arctic moonsnail
<i>Cryptonatica aleutica</i>	Aleutian moonsnail
<i>Cryptonatica russa</i>	Russty moonsnail
<i>Cryptopsaras couesii</i>	Triplewart seadevil
<i>Cryptotomus roseus</i>	Bluelip parrotfish
<i>Crystallichthys cyclospilus</i>	Blotched snailfish
<i>Cupedetes americanus</i>	American grass shrimp
<i>Cubiceps pauciradiatus</i>	Bigeye cigarfish
<i>Cucumaria frondosa</i>	Orange footed sea cucumber
<i>Cucumaria frondosa japonica</i>	Black sea cucumber
<i>Cyclocardia borealis</i>	NA
<i>Cyclocardia ovata</i>	Ovate cyclocardia
<i>Cyclohelia lamellata</i>	NA
<i>Cyclopecten davidsoni</i>	Salmon glass-scallop
<i>Cyclopsetta fimbriata</i>	Spotfin flounder
<i>Cyclopterus lumpus</i>	Lumpfish
<i>Cyclothona acclinidens</i>	Bentooth bristlemouth
<i>Cyclothona atraria</i>	Deep water bristlemouth
<i>Cyclozodion angustum</i>	Nodose box crab
<i>Cyllichna alba</i>	White cylichna

<i>Cymatium rubeculum occidentale</i>	Ruby triton
<i>Cymatogaster aggregata</i>	Shiner perch
<i>Cynoscion arenarius</i>	Sand weakfish
<i>Cynoscion nebulosus</i>	Spotted weakfish
<i>Cypraea cinerea</i>	Gray cowry
<i>Cystisoma fabricii</i>	NA
<i>Cytopsis rosea</i>	Rosy dory
<i>Dactylopterus volitans</i>	Flying gurnard
<i>Danielum ixbauchac</i>	NA
<i>Dardanus fucusus</i>	Bareye hermit
<i>Dardanus insignis</i>	Red brocade hermit
<i>Decapterus macarellus</i>	Mackerel scad
<i>Decapterus tabl</i>	Roughearing scad
<i>Decodon puellaris</i>	Red hogfish
<i>Delectopecten vancouverensis</i>	Vancouver scallop
<i>Dendraster excentricus</i>	Eccentric sand dollar
<i>Dendronotus dalli</i>	Dall's dendronotus
<i>Dendronotus frondosus</i>	Frond aeolis
<i>Dendronotus subramosus</i>	Stubby frond-aeolis
<i>Dendrophyllia californica</i>	Tree coral
<i>Dermasterias imbricata</i>	Leather star
<i>Dermaturus mandtii</i>	Wrinkled crab
<i>Dermochelys coriacea</i>	Leatherback turtle
<i>Desmodema lorum</i>	Whiptail ribbonfish
<i>Desmophyllum dianthus</i>	Cockscomb cup coral
<i>Desmophyllum pertusum</i>	Spider hazards coral
<i>Diadema antillarum</i>	Long spined sea urchin
<i>Diaphus theta</i>	California headlightfish
<i>Dapterus auratus</i>	Irish mojarra
<i>Dibranchus atlanticus</i>	Atlantic batfish
<i>Dichelopandalus leptocerus</i>	Bristled longbeak
<i>Dicrolene filamentosa</i>	NA
<i>Dimya argentea</i>	Silver dimyid
<i>Diodon holocanthus</i>	Longspined porcupinefish
<i>Diodon hystric</i>	Spot fin porcupinefish
<i>Diodora aspera</i>	Keyhole limpet
<i>Diodora cayenensis</i>	Cayenne keyhole limpet
<i>Diplodus holbrookii</i>	Spottail seabream
<i>Diplogrammus pauciradiatus</i>	Spotted dragonet
<i>Dipsacaster anoplus</i>	NA
<i>Dipsacaster borealis</i>	Northern sand star
<i>Dipsacaster eximius</i>	Extraordinary sand star
<i>Dipturus olseni</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>Echinolampus depressa</i>	NA
<i>Echiodon dawsoni</i>	Chain pearlfish
<i>Echiophis intortus</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
<i>Engraulis eurystole</i>	Silver anchovy
<i>Engraulis mordax</i>	Northern anchovy
<i>Engyophrys senta</i>	Spiny flounder
<i>Enophrysbison</i>	Buffalo sculpin
<i>Enophryslucasi</i>	Leister sculpin

<i>Enophrys taurina</i>	Bull sculpin
<i>Entosphenus tridentatus</i>	Pacific lamprey
<i>Epigonus pandionis</i>	Bigeye
<i>Epinephelus adscensionis</i>	Rock hind
<i>Epinephelus drummondhayi</i>	Speckled hind
<i>Epinephelus itajara</i>	Atlantic goliath grouper
<i>Epizoanthus scotinus</i>	Orange encrusting anemone
<i>Eptatretus deani</i>	Black hagfish
<i>Eptatretus stoutii</i>	Pacific hagfish
<i>Ericerodes gracilipes</i>	Unicorn neck crab
<i>Erilepis zonifer</i>	Skilfish
<i>Errinopora dichotoma</i>	NA
<i>Errinopora fisheri</i>	NA
<i>Errinopora nanneca</i>	NA
<i>Errinopora pourtalesii</i>	Pourtales's lace hydrocoral
<i>Errinopora undulata</i>	NA
<i>Errinopora zarhyncha</i>	NA
<i>Escharopsis sarsi</i>	NA
<i>Etelis oculatus</i>	Queen snapper
<i>Ethusa microphthalmia</i>	Broadback sumo crab
<i>Etmopterus gracilispinis</i>	Broadbanded lanternshark
<i>Etmopterus princeps</i>	Great lanternshark
<i>Etropus microstomus</i>	Smallmouth flounder
<i>Etropus rimosus</i>	Gray flounder
<i>Etrumeus sadina</i>	Round herring
<i>Eualus barbatus</i>	Barbed eualid
<i>Eualus biunguis</i>	Deepsea eualid
<i>Eualus fabricii</i>	Arctic eualid
<i>Eualus gaimardi</i>	Circumpolar eualid
<i>Eualus macilentus</i>	Greenland shrimp
<i>Eualus macrophthalmus</i>	Big eyed shrimp
<i>Eualus suckleyi</i>	Shortscale eualid
<i>Eualus townsendi</i>	Townsend eualid
<i>Euceramus praelongus</i>	Olivepit porcelain crab
<i>Euchirograpsus americanus</i>	American talon crab
<i>Eucinostomus argenteus</i>	Silver mojarra
<i>Eucinostomus gula</i>	Silver jenny
<i>Eucinostomus harengulus</i>	Tidewater mojarra
<i>Eucinostomus jonesii</i>	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 lump sucker
<i>Eumicrotremus asperrimus</i>	NA
<i>Eumicrotremus barbatus</i>	NA
<i>Eumicrotremus gyrinops</i>	NA
<i>Eumicrotremus phrynooides</i>	Toad lump sucker
<i>Eumicrotremus spinosus</i>	Atlantic spiny lump sucker
<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 pelecanoides</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 moon snail
<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
<i>Florometra acirima</i>	NA
<i>Florometra asperrima</i>	Rough feather star
<i>Florometra serratissima</i>	Common feather star
<i>Flustrellidra corniculata</i>	Spiny leather bryozoan
<i>Foetorepus agassizii</i>	Spotfin dragonet

<i>Fowlerichthys ocellatus</i>	Ocellated frogfish
<i>Fowlerichthys radiosus</i>	Singlespot frogfish
<i>Frevillea hirsuta</i>	Tufted broadface crab
<i>Frieleia halli</i>	NA
<i>Fulguropsis plagosa</i>	NA
<i>Fulvia laevigata</i>	Eggcockle
<i>Funiculina quadrangularis</i>	Tall sea pen
<i>Gadella imberbis</i>	Beardless codling
<i>Gaidropsarus ensis</i>	Threadfin rockling
<i>Galathea rostrata</i>	NA
<i>Galeocerdo cuvier</i>	Tiger shark
<i>Galeorhinus galeus</i>	Tope shark
<i>Galiteuthis phyllura</i>	NA
<i>Gari californica</i>	NA
<i>Gasterosteus aculeatus</i>	Three spined stickleback
<i>Gastropsetta frontalis</i>	Shrimp flounder
<i>Gastropteron pacificum</i>	Pacific stomach wing
<i>Gastroptychus spinifer</i>	NA
<i>Gattyana ciliata</i>	Ciliated scale worm
<i>Gemophos tinctus</i>	NA
<i>Gempylus serpens</i>	Snake mackerel
<i>Geodia gibberosa</i>	NA
<i>Geodia mesotriaena</i>	Armoured ball sponge
<i>Geodia starki</i>	NA
<i>Geodinella lendenfeldi</i>	NA
<i>Gephyreaster swifti</i>	Gunpowder star
<i>Gephyroberyx darwinii</i>	Darwin's slimehead
<i>Gersemia rubiformis</i>	Sea strawberry
<i>Gibbonsia metzi</i>	Striped kelpfish
<i>Gigantactis microdontis</i>	NA
<i>Gigantactis vanhoeffeni</i>	NA
<i>Ginglymostoma cirratum</i>	Nurse shark
<i>Glebocarcinus oregonensis</i>	Pygmy rock crab
<i>Glycymeris septentrionalis</i>	Northern bittersweet
<i>Glyptocephalus stelleri</i>	Korean flounder
<i>Glytolithodes cristaipes</i>	Peruvian centolla
<i>Glyptoplax smithii</i>	Truncate rubble crab
<i>Glyptoxanthus erosus</i>	Eroded mud crab
<i>Gnatholepis thompsoni</i>	Goldspot goby
<i>Gnathophis bracheatopos</i>	Longeye conger
<i>Gobiesox strumosus</i>	Skilletfish
<i>Gobioides broussonnetii</i>	Violet goby
<i>Gobionellus oceanicus</i>	Highfin goby
<i>Gobiosoma bosc</i>	Naked goby

<i>Gobiosoma ginsburgi</i>	Seaboard goby
<i>Gonatopsis borealis</i>	Boreopacific gonate squid
<i>Gonatus berryi</i>	Berry armhook squid
<i>Gonatus middendorffii</i>	Shortarm gonate squid
<i>Gonatus onyx</i>	Clawed armhook squid
<i>Gonatus pyros</i>	Fiery armhook squid
<i>Goniaster tessellatus</i>	Giant sunfish
<i>Gonostoma atlanticum</i>	Atlantic fangjaw
<i>Gorgonocephalus arcticus</i>	Northern basket star
<i>Grandicrepidula grandis</i>	Great slippersnail
<i>Graneledone boreopacifica</i>	NA
<i>Grimothea planipes</i>	Pelagic red crab
<i>Grimothea quadrispina</i>	Pinch bug
<i>Guyanacaris hirsutimana</i>	NA
<i>Gymnachirus melas</i>	Naked sole
<i>Gymnachirus nudus</i>	Flabby sole
<i>Gymnachirus texae</i>	Fringed sole
<i>Gymnelus hemifasciatus</i>	Halfbarred pout
<i>Gymnelus viridis</i>	Fish doctor
<i>Gymnocanthus detrisus</i>	NA
<i>Gymnocanthus tricuspidis</i>	Arctic staghorn sculpin
<i>Gymnothorax kolpos</i>	Blacktail moray
<i>Gymnothorax nigromarginatus</i>	Blackedge moray
<i>Gymnura altavela</i>	Spiny butterfly ray
<i>Habevolutopsius attenuatus</i>	Threaded whelk
<i>Habevolutopsius hirasei</i>	NA
<i>Hadroconus altus</i>	NA
<i>Haemulon plumieri</i>	White grunt
<i>Haemulon sciurus</i>	Bluestriped grunt
<i>Haemulon striatum</i>	Striped grunt
<i>Halargyreus johnsonii</i>	Slender codling
<i>Halicardia perplicata</i>	NA
<i>Halichoeres bathyphilus</i>	Greenband wrasse
<i>Halichoeres bivittatus</i>	Slippery dick
<i>Halichoeres caudalis</i>	Painted wrasse
<i>Halichoerus grypus</i>	Grey seal
<i>Halichondria (Eumastia) sitiens</i>	Green tinged sponge
<i>Halichondria (Halichondria) oblonga</i>	NA
<i>Halichondria (Halichondria) panicea</i>	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>Hemicarax 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
<i>Heterochone tenera</i>	Tender glass sponge
<i>Heterocrypta occidentalis</i>	Sandflat elbow crab
<i>Heterodontus francisci</i>	Horn shark
<i>Heteropolygonus ritteri</i>	Ritter's soft coral
<i>Heteropriacanthus cruentatus</i>	Glasses eye snapper

<i>Hexagrammos decagrammus</i>	Kelp greenling
<i>Hexagrammos lagocephalus</i>	Rock greenling
<i>Hexagrammos octogrammus</i>	Masked greenling
<i>Hexanchus griseus</i>	Bluntnose sixgill shark
<i>Hexapalanopeus angustifrons</i>	Smooth mud crab
<i>Hexapalanopeus paulensis</i>	Knobbed mud crab
<i>Hexaplex fulvescens</i>	Giant eastern murex
<i>Hiatella arctica</i>	Arctic hiatella
<i>Hippasteria heathi</i>	Heath's spiny star
<i>Hippasteria leiopelta</i>	NA
<i>Hippasteria lepidonotus</i>	Pebbly star
<i>Hippocampus erectus</i>	Lined seahorse
<i>Hippocampus reidi</i>	Longsnout seahorse
<i>Hippocampus zosterae</i>	Dwarf seahorse
<i>Hippoglossina stomata</i>	Bigmouth flounder
<i>Hippoporina insculpta</i>	NA
<i>Hirundichthys rondeletii</i>	Black wing flyingfish
<i>Histioteuthis heteropsis</i>	NA
<i>Histrio histrio</i>	Sargassumfish
<i>Holacanthus bermudensis</i>	Blue angelfish
<i>Holocentrus adscensionis</i>	Squirrelfish
<i>Holothuria (Theelothuria) princeps</i>	NA
<i>Holothuria (Vaneyothuria) lentiginosa</i>	NA
<i>Homola barbata</i>	Homole crab
<i>Hoplostethus mediterraneus</i>	Mediterranean slimehead
<i>Hoplostethus occidentalis</i>	Atlantic roughy
<i>Hoplunnis diomediana</i>	Blacktail pikeconger
<i>Hoplunnis macrura</i>	Freckled pike-conger
<i>Hoplunnis tenuis</i>	Spotted pike-conger
<i>Hormathiidae</i> sp. A	NA
<i>Howella brodiei</i>	Pelagic basslet
<i>Howella sherborni</i>	Sherborn's pelagic bass
<i>Humilaria kennerleyi</i>	Kennerley venus
<i>Hygophum reinhardtii</i>	Reinhardt's lantern fish
<i>Hymeniacidon assimilis</i>	NA
<i>Hymenodiscus exilis</i>	NA
<i>Hyperoglyphe perciformis</i>	Barrelfish
<i>Hyperprosopon analis</i>	Spotfin surfperch
<i>Hypseurochilus bermudensis</i>	Barred blenny
<i>Hypseurochilus 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 iodactylus</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>Janetogalathea 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</i>	<i>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 granulosus</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>		Escalar
<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
<i>Leptasterias (Hexasterias) camtschatica</i>		Kamchatha six-rayed star
<i>Leptasterias (Hexasterias) coei</i>		Coe's six-rayed star
<i>Leptasterias coei truculenta</i>		NA
<i>Leptasterias hexactis</i>		Delicate six-rayed star
<i>Leptasterias hylodes</i>		Aleutian star

<i>Leptasterias katharinae</i>	NA
<i>Leptasterias stolacantha</i>	Rough skirted star
<i>Leptoclinus maculatus</i>	Daubed shanny
<i>Leptocottus armatus</i>	Pacific staghorn sculpin
<i>Leptogorgia chilensis</i>	Red gorgonian
<i>Leptychaster anomalus</i>	Pentagonal sand star
<i>Leptychaster arcticus</i>	Arctic sand star
<i>Leptychaster pacificus</i>	Pale star
<i>Lestidiops ringens</i>	Slender barracudina
<i>Letharchus velifer</i>	Sailfin eel
<i>Lethotremus muticus</i>	Docked snailfish
<i>Leucandra heathi</i>	Bristly case sponge
<i>Leucandra tuba</i>	NA
<i>Leucoraja lentiginosa</i>	Freckled skate
<i>Leukoma staminea</i>	Pacific littleneck
<i>Leuroglossus schmidti</i>	Northern smoothtongue
<i>Leuroglossus stilbius</i>	California smoothtongue
<i>Libinia dubia</i>	Longnose spider crab
<i>Libinia emarginata</i>	Portly spider crab
<i>Lillipathes lillei</i>	NA
<i>Limaria pellucida</i>	NA
<i>Limneria prolongata</i>	Elongate lamellaria
<i>Limneria undata</i>	Wavy lamellaria
<i>Limopsis akutanica</i>	Akutan limops
<i>Limopsis vaginata</i>	Vaginate limops
<i>Lindafulgur candelabrum</i>	Splendid whelk
<i>Lindafulgur lyonsi</i>	NA
<i>Lindapecten muscosus</i>	Mossy scallop
<i>Liopsetta glacialis</i>	Arctic flounder
<i>Liparis atlanticus</i>	Atlantic seasnail
<i>Liparis bathyarcticus</i>	Nebulous snailfish
<i>Liparis bristolensis</i>	Bristol snailfish
<i>Liparis callyodon</i>	Spotted snailfish
<i>Liparis dennyi</i>	Marbled snailfish
<i>Liparis fucensis</i>	Slipskin snailfish
<i>Liparis inquiline</i>	Inquiline snailfish
<i>Liparis marmoratus</i>	Festive snailfish
<i>Liparis ochotensis</i>	NA
<i>Liparis pulchellus</i>	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 oblitterata</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 goosefish
<i>Lophius gastrophysus</i>	Blackfin goosefish
<i>Lophogastrida</i> sp. A	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 lampretaeformis</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
<i>Lycodapus parviceps</i>	Smallhead eelpout
<i>Lycodes akuugun</i>	NA
<i>Lycodes beringi</i>	Bering eelpout
<i>Lycodes concolor</i>	Ebony eelpout
<i>Lycodes mucosus</i>	Saddled eelpout

<i>Lycodes polaris</i>	Canadian eelpout
<i>Lyconema barbatum</i>	Bearded eelpout
<i>Lysiosquilla campechiensis</i>	NA
<i>Lysiosquilla scabrikauda</i>	Smooth mantis shrimp
<i>Lysmata wurdemanni</i>	Peppermint shrimp
<i>Lytechinus pictus</i>	White sea urchin
<i>Lytechinus variegatus</i>	Variegated sea urchin
<i>Macoma brota</i>	Heavy macoma
<i>Macoma calcarea</i>	Chalky macoma
<i>Macoma inquinata</i>	Pointed macoma
<i>Macoma nasuta</i>	Bent nose macoma
<i>Macoploma pulleyi</i>	Delta macoma
<i>Macoploma yoldiformis</i>	<i>Yoldia macoma</i>
<i>Macrocoeloma camptocerum</i>	Florida decorator crab
<i>Macrocoeloma eutheca</i>	NA
<i>Macrocoeloma nodipes</i>	NA
<i>Macrocoeloma trispinosum</i>	Spongy decorator crab
<i>Macrocypraea cervus</i>	NA
<i>Macropinna microstoma</i>	Barreleye
<i>Macroramphosus scolopax</i>	Longspine snipefish
<i>Macroregonia macrochira</i>	Long clawed spider crab
<i>Macrostrombus costatus</i>	Milk conch
<i>Macrourus berglax</i>	Roughhead grenadier
<i>Magnisudis atlantica</i>	Duckbill barracudina
<i>Maguimithrax spinosissimus</i>	Channel clinging crab
<i>Malacocephalus laevis</i>	Softhead grenadier
<i>Malacocephalus occidentalis</i>	Western softhead grenadier
<i>Malacobottus aleuticus</i>	Whitetail sculpin
<i>Malacobottus kincaidi</i>	Blackfin sculpin
<i>Malleus candeanus</i>	Caribbean hammer-oyster
<i>Mangelia carlottae</i>	NA
<i>Manucomplanus unguilatus</i>	NA
<i>Margarites costalis</i>	Boreal rosy margarite
<i>Margarites pupillus</i>	Little margarite
<i>Maulisia mauli</i>	Maul's searsid
<i>Maurolicus weitzmani</i>	Atlantic pearlside
<i>Mediaster tenellus</i>	Delicate star
<i>Megalocottus platycephalus</i>	Belligerent sculpin
<i>Megalops atlanticus</i>	Tarpon
<i>Megangulus luteus</i>	Alaskan great tellin
<i>Megapitaria maculata</i>	Calico clam
<i>Megasurcula carpenteriana</i>	NA
<i>Megayoldia thraciaeformis</i>	Broad yoldia
<i>Meiosquilla quadridens</i>	NA

<i>Melamphaes lugubris</i>	Highsnout melamphid
<i>Melanocetus johnsonii</i>	Humpback anglerfish
<i>Melanonus zugmayeri</i>	Arrowtail
<i>Melanostigma atlanticum</i>	Atlantic soft pout
<i>Melanostigma pammelas</i>	Midwater eelpout
<i>Mellita quinquesperforata</i>	Keyhole sand dollar
<i>Membras martinica</i>	Rough silverside
<i>Menidia beryllina</i>	Inland silverside
<i>Menidia menidia</i>	Atlantic silverside
<i>Menippe adina</i>	Gulf stone crab
<i>Menippe mercenaria</i>	Florida stone crab
<i>Menticirrhus saxatilis</i>	Northern kingfish
<i>Meoma ventricosa</i>	Red heart urchin
<i>Mesocentrotus franciscanus</i>	Red sea urchin
<i>Mesopenaeus tropicalis</i>	Salmon shrimp
<i>Metacarcinus anthonyi</i>	Yellow rock crab
<i>Metacarcinus gracilis</i>	Graceful rock crab
<i>Metacrangon variabilis</i>	Deepsea spinyhead
<i>Metoporhaphis calcarata</i>	False arrow crab
<i>Metridium senile</i>	Clonal plumose anemone
<i>Microcottus sellaris</i>	Brightbelly sculpin
<i>Microporina articulata</i>	NA
<i>Microspathodon chrysurus</i>	Yellowtail damselfish
<i>Minyorhyncha crassa</i>	Inflated spiny crab
<i>Mithraculus forceps</i>	Red ridged clinging crab
<i>Mithrax hispidus</i>	Coral clinging crab
<i>Mithrax pleuracanthus</i>	Shaggy clinging crab
<i>Mobula hypostoma</i>	Devil ray
<i>Modiolus americanus</i>	Tulip mussel
<i>Modiolus modiolus</i>	Northern horsemussel
<i>Moira atropos</i>	NA
<i>Mola mola</i>	Ocean sunfish
<i>Molgula griffithsii</i>	NA
<i>Molgula occidentalis</i>	NA
<i>Molgula retortiformis</i>	Sea clod
<i>Moloha faxoni</i>	Pacific carrier crab
<i>Molpadia barbouri</i>	NA
<i>Molpadia cubana</i>	NA
<i>Monanchora alaskensis</i>	Alaskan horny sponge
<i>Monolene sessilicauda</i>	Deepwater flounder
<i>Monoplex parthenopeus</i>	Giant triton
<i>Mopalia egretta</i>	Egret plumped mopalia
<i>Mopalia swanii</i>	Swan's mopalia
<i>Moreiradromia antillensis</i>	Hairy sponge crab

<i>Morone saxatilis</i>	Striped bass
<i>Mugil cephalus</i>	Flathead grey mullet
<i>Mugil curema</i>	White mullet
<i>Mulloidichthys martinicus</i>	Yellow goatfish
<i>Munidopsis hystric</i>	NA
<i>Munidopsis quadrata</i>	Four-cornered squat lobster
<i>Munidopsis robusta</i>	NA
<i>Munidopsis sp. A</i>	NA
<i>Muraena retifera</i>	Reticulate moray
<i>Muriceides nigra</i>	NA
<i>Musculus discors</i>	Discordant mussel
<i>Musculus niger</i>	Black mussel
<i>Mustelus californicus</i>	Gray smooth-hound
<i>Mustelus henlei</i>	Brown smooth-hound
<i>Mustelus lunulatus</i>	Sicklefin smooth-hound
<i>Mustelus norrisi</i>	Narrowfin smooth-hound
<i>Mustelus sinusmexicanus</i>	Gulf smooth-hound
<i>Muusoctopus leioderma</i>	Smoothskin octopus
<i>Muusoctopus oregonensis</i>	NA
<i>Muusoctopus sibiricus</i>	NA
<i>Mya arenaria</i>	Softshell clam
<i>Mya baxteri</i>	NA
<i>Mya elegans</i>	NA
<i>Mya pseudoarenaria</i>	False softshell
<i>Mya truncata</i>	Truncate softshell
<i>Mycale (Aegogropila) adhaerens</i>	Smooth scallop sponge
<i>Mycale (Carmia) carlilei</i>	NA
<i>Mycale (Mycale) tylota</i>	NA
<i>Mycteroperca microlepis</i>	Gag
<i>Mycteroperca phenax</i>	Scamp
<i>Mycteroperca venenosa</i>	Yellowfin grouper
<i>Myctophum punctatum</i>	Spotted lanternfish
<i>Myliobatis californica</i>	Bat eagle ray
<i>Myliobatis goodei</i>	Southern eagle ray
<i>Myoxocephalus aenaeus</i>	Grubby
<i>Myoxocephalus quadricornis</i>	Fourhorn sculpin
<i>Myoxocephalus scorpioides</i>	Arctic sculpin
<i>Myriapora orientalis</i>	NA
<i>Myrichthys ocellatus</i>	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>Nannobrachium 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>Nearchester pedicellaris</i>	Pedicillate fragile star
<i>Nearchester 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>Neoheringius 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>Neoepinnula americanus</i>	American sackfish
<i>Neognathophausia gigas</i>	NA
<i>Neognathophausia ingens</i>	Giant red mysid
<i>Neognathophausia</i> sp. A	NA
<i>Neogonodactylus bredini</i>	Split-thumb mantis shrimp
<i>Neogonodactylus torus</i>	NA
<i>Neophinnoe coronata</i>	Crowned hairy snail
<i>Neolithodes diomedae</i>	NA
<i>Neomenia efgamatoi</i>	NA
<i>Neomenia yamamotoi</i>	NA
<i>Neomerinthe hemingwayi</i>	Spinycheek scorpionfish
<i>Neoterebra dislocata</i>	Eastern auger
<i>Neotrypaea californiensis</i>	Bay ghost shrimp
<i>Neoturris breviconis</i>	Blob top jelly

<i>Nephropsis aculeata</i>	Florida lobsterette
<i>Neptunea alexeyevi</i>	NA
<i>Neptunea gyroscopoides</i>	NA
<i>Neptunea humboldtiana</i>	NA
<i>Neptunea insularis</i>	NA
<i>Neptunea middendorffii</i>	NA
<i>Neptunea phoenicea</i>	Phoenician whelk
<i>Neptunea smirnia</i>	Smirnia whelk
<i>Neptunea stilesi</i>	NA
<i>Neptunea tabulata</i>	Tabled whelk
<i>Nerocila acuminata</i>	NA
<i>Nesiarchus nasutus</i>	Black gemfish
<i>Neverita duplicata</i>	Shark eye
<i>Neverita lewisii</i>	Lewis's moonsnail
<i>Nezumia bairdii</i>	Marlin spike grenadier
<i>Nezumia liolepis</i>	Smooth grenadier
<i>Nibilia antilocapra</i>	Shorthorn spiny crab
<i>Nicholsina usta</i>	Emerald parrotfish
<i>Niso aeglees</i>	Brown line niso
<i>Nodipecten fragosus</i>	NA
<i>Nodipecten nodosus</i>	Lion's paw
<i>Nodulotrophon coronatus</i>	Crown trophon
<i>Noetia ponderosa</i>	Ponderous ark
<i>Nothria conchylega</i>	NA
<i>Notostomum cyclostomum</i>	NA
<i>Notostomus japonicus</i>	Japanese spinyridge
<i>Nucella lamellosa</i>	Frilled dogwinkle
<i>Nuculana pernula</i>	Northern nutclam
<i>Nudibranchia</i> sp. A	Sea slug
<i>Oceanactis diomedaeae</i>	NA
<i>Ocnus pygmaeus</i>	NA
<i>Octopus briareus</i>	Caribbean reef octopus
<i>Octopus californicus</i>	North pacific bigeye octopus
<i>Octopus joubini</i>	Atlantic pygmy octopus
<i>Octopus rubescens</i>	East pacific red octopus
<i>Octopus vulgaris</i>	Common octopus
<i>Oculina diffusa</i>	Diffuse ivory bush coral
<i>Ocyurus chrysurus</i>	Yellowtail snapper
<i>Odontaster crassus</i>	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 anonyma</i>	Smallfin gonate squid
<i>Oligoplites saurus</i>	Leatherjacket
<i>Oliva fulgorator</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>Ophiosemnotes brevispina</i>	NA
<i>Ophiosemnotes pachybactra</i>	NA
<i>Ophiosemnotes tylota</i>	NA
<i>Ophiosphalma jolliene</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 koehleri</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 loster
<i>Parablennius marmoreus</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 alboguttata</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>Parapaspheae 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
<i>Parthenope agona</i>	Elbow crab
<i>Parvamussium alaskense</i>	Alaska glass-scallop
<i>Pasiphaea multidentata</i>	Pink glass shrimp
<i>Patinopecten caurinus</i>	Weathervane scallop
<i>Patiria miniata</i>	Bat star

<i>Pedicellaster magister</i>	Soft orange star
<i>Pelia mutica</i>	Cryptic teardrop crab
<i>Peltodoris lentiginosa</i>	Mottled pale sea-lemon
<i>Peltodoris nobilis</i>	Pacific sea-lemon
<i>Penaeopsis serrata</i>	Megalops shrimp
<i>Penaeus monodon</i>	Giant tiger prawn
<i>Penaeus vannamei</i>	Whiteleg shrimp
<i>Pennatula phosphorea</i>	Phosphorescent sea pen
<i>Pentamera lissoplaca</i>	NA
<i>Pentamera pulcherrima</i>	Splendid sea cucumber
<i>Peprilus simillimus</i>	Pacific pompano
<i>Percis japonica</i>	Dragon poacher
<i>Peribolaster biserialis</i>	Fuzzy star
<i>Periphylla periphylla</i>	Merchant cap
<i>Peristedion gracile</i>	Slender searobin
<i>Peristedion miniatum</i>	Armored searobin
<i>Persephona crinita</i>	Pink purse crab
<i>Petrasma perverncosa</i>	NA
<i>Petrochirus diogenes</i>	Giant hermit
<i>Petrolisthes armatus</i>	Green porcelain crab
<i>Petrolisthes galathinus</i>	Banded porcelain crab
<i>Petromyzon marinus</i>	Sea lamprey
<i>Phacelophora camtschatica</i>	Fried egg jellyfish
<i>Phaeoptyx conklini</i>	Freckled cardinalfish
<i>Phaeoptyx pigmentaria</i>	Dusky cardinalfish
<i>Phaeoptyx xenus</i>	Sponge cardinalfish
<i>Phanerodon atripes</i>	Sharpnose seaperch
<i>Phanerodon furcatus</i>	White seaperch
<i>Phanerodon vacca</i>	Pile perch
<i>Phidolopora pacifica</i>	Lattice work bryozoan
<i>Philine bakeri</i>	Baker paper-bubble
<i>Phimochirus holthuisi</i>	Red striped hermit
<i>Pholis gunnellus</i>	Rock gunnel
<i>Pholis laeta</i>	Crescent gunnel
<i>Phorbas paucistyliifer</i>	NA
<i>Photonectes margarita</i>	NA
<i>Phrontis vibex</i>	Bruised nassa
<i>Phtheirichthys lineatus</i>	Slender suckerfish
<i>Phyllolithodes papillosus</i>	Flatspine triangle crab
<i>Phyllumnotus pomum</i>	Apple murex
<i>Physiculus fulvus</i>	Hakeling
<i>Physiculus rastrelliger</i>	Hundred fathom mora
<i>Pilumnus dasypodus</i>	Shortspined hairy crab
<i>Pilumnus floridanus</i>	Plumed hairy crab

<i>Pilumnus pannosus</i>	Beaded hairy crab
<i>Pilumnus sayi</i>	Spineback hairy crab
<i>Pinnaxodes floridensis</i>	Polkadotted pea crab
<i>Pinnixa lunzi</i>	Lunz pea crab
<i>Pisaster brevispinus</i>	Giant pink sea star
<i>Pisaster giganteus</i>	Giant spined star
<i>Pisaster ochraceus</i>	Purple star
<i>Placetron wosnessenskii</i>	Scaled crab
<i>Placiphorella pacifica</i>	NA
<i>Placiphorella rufa</i>	Red veiled chiton
<i>Placopecten magellanicus</i> clapper	Atlantic sea scallop
<i>Plakina atka</i>	Atka membrane sponge
<i>Plakina tanaga</i>	NA
<i>Planes minutus</i>	Gulfweed crab
<i>Platybelone argalus</i>	Keeltail needlefish
<i>Platytroctes apus</i>	Legless searsid
<i>Plectobranchus evides</i>	Bluebarred prickleback
<i>Plectrypops retrospinis</i>	Cardinal soldierfish
<i>Pleoticus robustus</i>	Royal red shrimp
<i>Plesionika acanthonotus</i>	Lesser striped shrimp
<i>Plesionika edwardsii</i>	Soldier striped shrimp
<i>Plesionika longicauda</i>	NA
<i>Pleurobranchaea inconspicua</i>	NA
<i>Pleurobranchus areolatus</i>	Atlantic sidegill slug
<i>Pleuronectiform</i> larvae	NA
<i>Pleuronichthys coenosus</i>	C o sole
<i>Pleuronichthys ritteri</i>	Spotted turbot
<i>Pleuronichthys verticalis</i>	Hornyhead turbot
<i>Plicifusus oceanodromae</i>	NA
<i>Plicifusus olivaceus</i>	NA
<i>Plicifusus rodgersi</i>	Strombiform whelk
<i>Plinthaster dentatus</i>	NA
<i>Plumarella aleutiana</i>	NA
<i>Plumarella echinata</i>	NA
<i>Plumarella hapala</i>	NA
<i>Plumarella nuttingi</i>	NA
<i>Plumarella robusta</i>	NA
<i>Plumarella superba</i>	NA
<i>Poecilopsetta beanii</i>	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>Pseudomedaeus agassizii</i>	Rough rubble crab
<i>Pseudomedaeus 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 tesselatus</i>	Tesselated slime star
<i>Pteraster tesselatus 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
<i>Purple striated anemone</i>	Purple striated anemone
<i>Pusula pediculus</i>	Coffeebean trivia
<i>Puzanovia rubra</i>	NA
<i>Pyromaja 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 scutiger</i>	Roughskin sculpin
<i>Rathbunella hypoplecta</i>	Stripefin ronquil
<i>Rathbunixa occidentalis</i>	Western pea crab
<i>Raymanninus schmitti</i>	Sharpoar swimming crab
<i>Red striated anemone</i>	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 harrisii</i>	Harris mud crab
<i>Rhynchoconger flavus</i>	Yellow conger
<i>Rhynchoconger gracilior</i>	Whiptail conger
<i>Rhynchoconger guppyi</i>	NA
<i>Rhynocrangon alata</i>	Saddleback shrimp
<i>Rhynocrangon sharpi</i>	NA
<i>Rimapenaeus constrictus</i>	Roughneck shrimp

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

<i>Scyllarides aequinoctialis</i>	Spanish slipper lobster
<i>Scyllarus americanus</i>	American slipper lobster
<i>Scyllarus depressus</i>	Scaled slipper lobster
<i>Scyra acutifrons</i>	Sharpnose crab
<i>Sebastes aleutianus</i>	Rougheye rockfish
<i>Sebastes atrovirens</i>	Kelp rockfish
<i>Sebastes auriculatus</i>	Brown rockfish
<i>Sebastes carnatus</i>	Gopher rockfish
<i>Sebastes caurinus</i>	Copper rockfish
<i>Sebastes constellatus</i>	Starry rockfish
<i>Sebastes dallii</i>	Calico rockfish
<i>Sebastes diaconus</i>	Deacon rockfish
<i>Sebastes emphaeus</i>	Puget sound rockfish
<i>Sebastes ensifer</i>	Swordspine rockfish
<i>Sebastes eos</i>	Pink rockfish
<i>Sebastes gilli</i>	Bronzespotted rockfish
<i>Sebastes hopkinsi</i>	Squarespot rockfish
<i>Sebastes lentiginosus</i>	Freckled rockfish
<i>Sebastes levis</i>	Cowcod
<i>Sebastes macdonaldi</i>	Mexican rockfish
<i>Sebastes maliger</i>	Quillback rockfish
<i>Sebastes melanops</i>	Black rockfish
<i>Sebastes melanostictus</i>	Blackspotted rockfish
<i>Sebastes melanostomus</i>	Blackgill rockfish
<i>Sebastes miniatus</i>	Vermilion rockfish
<i>Sebastes miniatus</i> and <i>S. crocotulus</i>	Vermillion and sunset rockfish
<i>Sebastes miniatus</i> and <i>S. pinniger</i>	Vermillion and canary rockfish
<i>Sebastes moseri</i>	Whitespeckled rockfish
<i>Sebastes mystinus</i>	Blue rockfish
<i>Sebastes nigrocinctus</i>	Tiger rockfish
<i>Sebastes ovalis</i>	Speckled rockfish
<i>Sebastes phillipsi</i>	Chameleon rockfish
<i>Sebastes rastrelliger</i>	Grass rockfish
<i>Sebastes reedi</i>	Yellowmouth rockfish
<i>Sebastes rosaceus</i>	Rosy rockfish
<i>Sebastes rosenblatti</i>	Greenblotched rockfish
<i>Sebastes ruberrimus</i>	Yelloweye rockfish
<i>Sebastes rubrivinctus</i>	Flag rockfish
<i>Sebastes rufus</i>	Bank rockfish
<i>Sebastes serranoides</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>Sebastolobus macrochir</i>	Broadbanded thornyhead
<i>Selachii</i> 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
<i>Serpula columbiana</i>	Red trumpet calcareous tubeworm
<i>Serpula vermicularis</i>	Serpulid worm
<i>Serraniculus pumilio</i>	Pygmy sea bass
<i>Serranus annularis</i>	Orangeback bass
<i>Serranus notospilus</i>	Saddle bass
<i>Serranus subligarius</i>	Belted sandfish
<i>Serratiflustra serrulata</i>	NA
<i>Serripes groenlandicus</i>	Greenland cockle
<i>Serripes laperousii</i>	Broad smoothcockle
<i>Serrivomer jesperseni</i>	Crosthroat sawpalate
<i>Serrivomer sector</i>	Sawtooth eel
<i>Sicyonia burkenroadi</i>	Spiny rock shrimp
<i>Sicyonia ingentis</i>	Ridgeback rock shrimp
<i>Sicyonia laevigata</i>	Notched tidal rock shrimp
<i>Sicyonia parri</i>	NA
<i>Sicyonia stimpsoni</i>	Eyespot rock shrimp
<i>Sicyonia typica</i>	Kinglet rock shrimp
<i>Sigmops elongatus</i>	Elongated bristlemouth fish
<i>Sigmops gracilis</i>	Slender fangjaw
<i>Siliqua alta</i>	Alaska razor
<i>Siliqua patula</i>	Pacific razor
<i>Simenchelys parasitica</i>	Snubnosed eel
<i>Sinistrofulgur perversum</i>	Perverse whelk
<i>Sinistrofulgur pulleyi</i>	Prickly whelk
<i>Sinistrofulgur sinistrum</i>	Lightning whelk
<i>Sinum maculatum</i>	Brown baby ear
<i>Siratus beauii</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 exiguum</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 starksii</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 phippsii</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>Stenobrachius leucopsarus</i>	Northern lampfish
<i>Stenobrachius 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 campyleucus</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 stejnegeri</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 eos</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
<i>Tachyrhynchus erosus</i>	Eroded turretsnail
<i>Tactostoma macropus</i>	Longfin dragonfish
<i>Tamoya haplonema</i>	NA
<i>Taningia danae</i>	Dana octopus squid
<i>Taonius borealis</i>	NA

<i>Taonius pavo</i>	Peacock cranch squid
<i>Tarletonbeania crenularis</i>	Blue lanternfish
<i>Tarsaster alaskanus</i>	Alaskan star
<i>Tautoga onitis</i>	Tautog
<i>Tautogolabrus adspersus</i>	Cunner
<i>Tedania (Tedania) dirhaphis</i>	NA
<i>Tegula pulligo</i>	Dusky tegula
<i>Tellinella listeri</i>	Speckled tellin
<i>Temnocora candida</i>	Bigeye snailfish
<i>Tentorium semisuberites</i>	Pavilion horny sponge
<i>Terebratalia transversa</i>	Common lamp shell
<i>Terebratulina unguicula</i>	Snake's head lamp shell
<i>Tethyaster grandis</i>	NA
<i>Tetragonurus cuvieri</i>	Smalleye squaretail
<i>Tetronarce californica</i>	Pacific electric ray
<i>Tetronarce nobiliana</i>	Electric ray
<i>Thetys vagina</i>	Virgin salpa
<i>Thouarella cristata</i>	NA
<i>Thunnus alalunga</i>	Albacore
<i>Thyonella gemmata</i>	Green sea cucumber
<i>Thyonella pervicax</i>	NA
<i>Thyrsicus anoplus</i>	Sponge sculpin
<i>Tochuina gigantea</i>	Giant orange tochui
<i>Tonicella insignis</i>	White line chiton
<i>Tonna galea</i>	Giant tun
<i>Torellivelutina ammonia</i>	NA
<i>Tozeuma serratum</i>	Serrate arrow shrimp
<i>Trachipterus altivelis</i>	King of-the-salmon
<i>Trachurus symmetricus</i>	Jack mackerel
<i>Travisia pupa</i>	NA
<i>Tremoctopus violaceus</i>	Violet blanket octopods
<i>Tresus capax</i>	Fat gaper
<i>Triakis semifasciata</i>	Leopard shark
<i>Trichocottus brashnikovi</i>	Hairhead sculpin
<i>Trichodon trichodon</i>	Pacific sandfish
<i>Trichotropis bicarinata</i>	Two keel hairy snail
<i>Trididemnum opacum</i>	NA
<i>Triglops macellus</i>	Roughspine sculpin
<i>Triglops metopias</i>	Alaskan sculpin
<i>Triglops murrayi</i>	Moustache sculpin
<i>Triglops xenostethus</i>	Scaly breasted sculpin
<i>Triopha catalinae</i>	Sea clown triopha
<i>Triplofusus giganteus</i>	Florida horse conch
<i>Tripoplax abyssicola</i>	NA

<i>Tripoplax beringiana</i>	NA
<i>Tripoplax trifida</i>	Three rib chiton
<i>Tritonia festiva</i>	Diamondback tritonia
<i>Tubicolixa chaetopterana</i>	Tube pea crab
<i>Tubulanus polymorphus</i>	NA
<i>Tumidotheres maculatus</i>	Squatter pea crab
<i>Turbo castanea</i>	NA
<i>Turritella exoleta</i>	Eastern turretsnail
<i>Tyche emarginata</i>	Fourhorn crab
<i>Ulvaria subbifurcata</i>	Radiated shanny
<i>Umbrina coroides</i>	Sand drum
<i>Upogebia pugettensis</i>	Blue mud shrimp
<i>Uraspis secunda</i>	Cottonmouth jack
<i>Urobatis jamaicensis</i>	Yellow stingray
<i>Uroconger syringinus</i>	Threadtail conger
<i>Urophycis cirrata</i>	Gulf hake
<i>Urophycis earllii</i>	Carolina hake
<i>Urophycis floridana</i>	Southern hake
<i>Urosalpinx cinerea</i>	Atlantic oyster drill
<i>Urticina columbiana</i>	Crusty red anemone
<i>Urticina coriacea</i>	Leathery anemone
<i>Urticina crassicornis</i>	Mottled anemone
<i>Urticina eques</i>	Spotted red anemone
<i>Vampyroteuthis infernalis</i>	Vampire squid
<i>Velella velella</i>	By-the-wind sailor
<i>Velutina plicatilis</i>	Oblique lamellaria
<i>Velutina velutina</i>	Smooth lamellaria
<i>Venefica tentaculata</i>	NA
<i>Vermicularia knorrii</i>	Florida wormsnail
<i>Vesicomya pacifica</i>	NA
<i>Vilasina seminuda</i>	Partly sculptured crenella
<i>Vokesimurex belleglaeensis</i>	Belleglade murex
<i>Vokesimurex tryoni</i>	NA
<i>Volutomitra groenlandica</i>	NA
<i>Volutopsis castaneum</i>	Chestnut whelk
<i>Volutopsis castaneus</i>	Volute whelk
<i>Volutopsis fragilis</i>	Fragile whelk
<i>Volutopsis middendorffii</i>	Tulip whelk
<i>Volutopsis pallidus</i>	NA
<i>Volutopsis regularis</i>	Regular whelk
<i>Volutopsis simplex</i>	Volute whelk
<i>Volutopsis stefanssoni</i>	NA
<i>Volutopsis 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 dagleishi</i>	Spotted tinsel fish
<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