UNESCO environmental DNA (eDNA) Expeditions in marine World Heritage sites

Biodiversity survey for Coiba National Park and its Special Zone of Marine Protection

Interim Results Not for public distribution



Credit: Coiba Scientific Station (COIBA AIP).

About eDNA Expeditions

UNESCO's eDNA Expeditions is a global, citizen science initiative that is conducted with the intention to measure marine biodiversity and predict the impact climate change on marine community composition across UNESCO World Heritage marine sites.

eDNA is a cost effective and minimally invasive method to measure biodiversity in any given area. Marine species continuously shed DNA into the water around them in the form of waste, mucus, or cells. By extracting this DNA from water samples, and subsequently multiplying and sequencing specific regions within these DNA strands, a wide variety of species can be detected without removing any organisms from their environment. The regions in the DNA targeted for sequencing are selected depending on the scope of the study: while some markers are suitable to obtain a broad overview of biodiversity across many groups of species, other markers are particularly suited to get high resolution insight for a more specific taxonomic group such as fish. The UNESCO eDNA Expeditions initiative combines a number of markers tailored for marine vertebrates (fish, mammals, and turtles). A general marker was added to also allow detection of species from other groups such as invertebrates, which can give a broader insight in the marine species diversity in a given area.

Between September 2022 and May 2023, UNESCO organized eDNA sampling campaigns in 21 marine World Heritage sites across 17 countries around the world. At every World Heritage site, about 20 samples were collected from different habitats. Over 250 young people participated in the local sampling expeditions. They were guided by local experts and park management staff, using protocols and eDNA sampling equipment provided by UNESCO.

Biodiversity inventories generated from the samples are being combined with existing species distribution data from public biodiversity databases such as the Ocean Biodiversity Information System (OBIS) in view of obtaining a comprehensive overview of marine life across marine World Heritage sites. Through the use of climate scenarios and species distribution models, an estimate will be made of the impact of climate change, in particular rising temperatures, on local biodiversity and its potential future distribution patterns.

More information about the initiative and a press kit are available on the UNESCO website: https://www.unesco.org/en/edna-expeditions.

Results

Sampling and sample processing

eDNA sampling was conducted in Coiba National Park and its Special Zone of Marine Protection in July to September 2023. A total of 21 samples were collected at 6 locations in the park covering different habitats: canales_de_afuero, granito_de_oro, isla_tortuga, oceanica, rio_san_juan, and tres_islas (Figure 1). Up to 1,800 mL of seawater was filtered through filter cartridges containing a filter with a 0.8 µm pore size. After sampling, the filter cartridges were flushed with preservation liquid and shipped to UNESCO. DNA from the samples was extracted and amplified, and subsequently sent to the sequencing facility at KU Leuven in Belgium, a specialized university eDNA lab contracted by UNESCO for this work. PCR amplification was done using five primer pairs selected to capture as much biodiversity as possible in the target groups of the study: fish, mammals, and turtles.



Figure 1: Map of the sampling locations.

DNA sequencing

Sequencing of the DNA from 21 samples resulted in over 32 million sequence reads, from which we collected 31,057 unique sequences or ASVs (Tables 1 and 2).

| reads | asvs |
|----------|-------|
| 32944557 | 31057 |

Table 1: Reads, ASVs, and species across all samples.

Species identification

The marker sequences obtained from sequencing were matched with sequence reference databases built using public data available from the National Center for Biotechnology Information (NCBI). This resulted in the identification of 493 species, including 236 fish species, 1 mammalian species, and 1 turtle species (Table 3). Species from other groups, such as algae, cnidarians, molluscs, crustaceans, and echinoderms, were also detected (Figures 2 and 3). This number of species detected represents about 37% of the 1,625 species known from Coiba National Park and its Special Zone of Marine Protection in the OBIS database. Of the 493 species detected, 305 are not among the species previously reported from Coiba National Park and its Special Zone of Marine Protection to the UNESCO OBIS database. 15 of the detected species are listed as threatened on the IUCN Red List (Table 4). A full list of species is added at the end of this report.

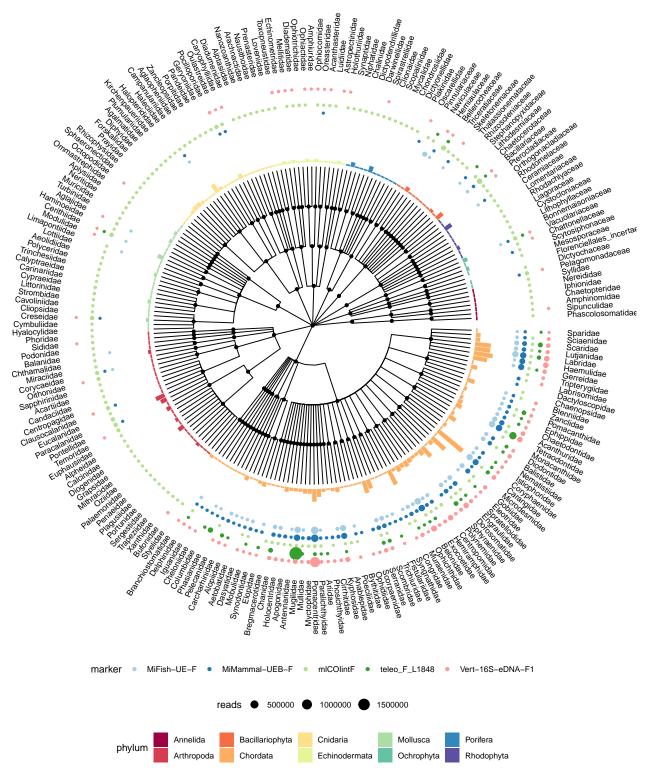


Figure 2: Number of DNA reads (bubbles) and species detected (bars) by family.

| locality | materialSampleID | sampleSize | reads | asvs | species |
|-------------------|------------------|------------|---------|-------|---------|
| Canales de afuero | EE0160 | 1800 | 2083026 | 5707 | 111 |
| Canales de afuero | EE0238 | 1800 | 1644498 | 8980 | 91 |
| Canales de afuero | EE0244 | 1500 | 1422745 | 10700 | 198 |
| Canales de afuero | EE0250 | 1500 | 1769618 | 9736 | 162 |
| Granito de oro | EE0242 | 600 | 1834823 | 10960 | 214 |
| Granito de oro | EE0246 | 1500 | 1679898 | 10628 | 191 |
| Granito de oro | EE0248 | 1560 | 1662754 | 9291 | 97 |
| Granito de oro | EE0249 | 1500 | 2018063 | 11244 | 201 |
| Isla tortuga | EE0207 | 1500 | 1452893 | 1208 | 57 |
| Isla tortuga | EE0208 | 1380 | 935017 | 7078 | 149 |
| Isla tortuga | EE0245 | 1500 | 1290116 | 6040 | 138 |
| Isla tortuga | EE0247 | 1500 | 1531985 | 9379 | 170 |
| Oceanica | EE0237 | 1500 | 1309084 | 8507 | 91 |
| Oceanica | EE0240 | 1500 | 1142154 | 8535 | 107 |
| Oceanica | EE0254 | 1500 | 830490 | 6624 | 49 |
| Oceanica | EE0255 | 720 | 872720 | 5992 | 45 |
| Rio San Juan | EE0192 | 1500 | 1546095 | 4904 | 50 |
| Rio San Juan | EE0209 | 1500 | 1481781 | 1371 | 59 |
| Rio San Juan | EE0241 | 1500 | 3098907 | 902 | 19 |
| Rio San Juan | EE0243 | 1500 | 1441421 | 6095 | 94 |
| Tres Islas | EE0239 | 1440 | 1896469 | 9433 | 140 |

Table 2: Reads, ASVs, and species by sample.

| group | eDNA species | total species | fraction |
|---------|--------------|---------------|----------|
| fish | 236 | 630 | 0.37 |
| mammals | 1 | 8 | 0.12 |
| turtles | 1 | 3 | 0.33 |

Table 3: Number of species in the three target groups, from the OBIS database and from eDNA sampling.

| category | eDNA species | total species | fraction |
|----------|--------------|---------------|----------|
| CR | 2 | 5 | 0.40 |
| EN | 4 | 8 | 0.50 |
| VU | 9 | 31 | 0.29 |

Table 4: Number of species by IUCN Red List category, from the OBIS database and from eDNA sampling.

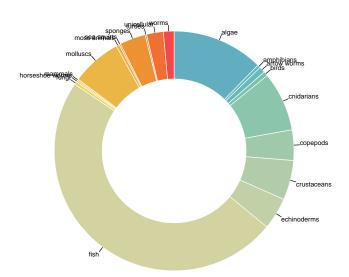


Figure 3: Distribution of detected species across groups.

| phylum | class | species | group | category | new | vernacular |
|------------|--------------|---------------------------------------|-------------|----------|-----|----------------------------|
| Amoebozoa | Discosea | Neoparamoeba aestuarina | unicellular | | yes | |
| Amoebozoa | Myxogastrea | Craterium leucocephalum | unicellular | | yes | |
| Annelida | Polychaeta | Iphione henshawi | worms | | yes | |
| Annelida | Polychaeta | Notopygos ornata | worms | | | |
| Annelida | Polychaeta | Odontosyllis phosphorea | worms | | yes | |
| Annelida | Polychaeta | Phyllochaetopterus verrilli | worms | | yes | |
| Annelida | Polychaeta | Pseudonereis pseudonoodti | worms | | yes | |
| Annelida | | Phascolosoma (Phascolosoma) perlucens | worms | | yes | |
| Annelida | | Sipunculus (Sipunculus) nudus | worms | | yes | |
| Arthropoda | Branchiopoda | Penilia avirostris | crustaceans | | yes | |
| Arthropoda | Branchiopoda | Pseudevadne tergestina | crustaceans | | yes | |
| Arthropoda | Copepoda | Acartia (Acartia) negligens | copepods | | yes | |
| Arthropoda | Copepoda | Acrocalanus gracilis | copepods | | yes | |
| Arthropoda | Copepoda | Bestiolina similis | copepods | | yes | |
| Arthropoda | Copepoda | Calanopia minor | copepods | | yes | |
| Arthropoda | Copepoda | Calocalanus minutus | copepods | | yes | |
| Arthropoda | Copepoda | Calocalanus pavo | copepods | | yes | |
| Arthropoda | Copepoda | Calocalanus plumulosus | copepods | | yes | |
| Arthropoda | Copepoda | Candacia curta | copepods | | yes | |
| Arthropoda | Copepoda | Centropages furcatus | copepods | | yes | |
| Arthropoda | Copepoda | Clausocalanus furcatus | copepods | | yes | |
| Arthropoda | Copepoda | Copilia mirabilis | copepods | | yes | |
| Arthropoda | Copepoda | Farranula gibbula | copepods | | yes | |
| Arthropoda | Copepoda | Labidocera acuta | copepods | | yes | |
| Arthropoda | Copepoda | Labidocera detruncata | copepods | | yes | |
| Arthropoda | Copepoda | Macrosetella gracilis | copepods | | yes | |
| Arthropoda | Copepoda | Oithona attenuata | copepods | | yes | |
| Arthropoda | Copepoda | Paracalanus indicus | copepods | | yes | |
| Arthropoda | Copepoda | Pontellina plumata | copepods | | - | |
| Arthropoda | Copepoda | Subeucalanus subcrassus | copepods | | yes | |
| Arthropoda | Copepoda | Temora discaudata | | | yes | |
| Arthropoda | Hexapoda | Megaselia scalaris | copepods | | yes | |
| Arthropoda | Malacostraca | Ala cornuta | crustaceans | | yes | |
| Arthropoda | Malacostraca | Alpheus paracrinitus | | | | amonthalou anonning abrima |
| | Malacostraca | Arenaeus mexicanus | crustaceans | | yes | smoothclaw snapping shrimp |
| Arthropoda | | | crustaceans | | yes | |
| Arthropoda | Malacostraca | Calcinus obscurus | crustaceans | | yes | and a few forms on the |
| Arthropoda | Malacostraca | Callinectes arcuatus | crustaceans | | | arched swimming crab |
| Arthropoda | Malacostraca | Clibanarius albidigitus | crustaceans | | yes | |
| Arthropoda | Malacostraca | Clibanarius lineatus | crustaceans | | yes | |
| Arthropoda | Malacostraca | Epixanthus tenuidactylos | crustaceans | | yes | |
| Arthropoda | Malacostraca | Euphausia distinguenda | crustaceans | | yes | |
| Arthropoda | Malacostraca | Euphausia eximia | crustaceans | | yes | |
| Arthropoda | Malacostraca | Euphausia lamelligera | crustaceans | | yes | |
| Arthropoda | Malacostraca | Goniopsis pulchra | crustaceans | | | |
| Arthropoda | Malacostraca | Mithraculus denticulatus | crustaceans | | | |
| Arthropoda | Malacostraca | Neosergestes edwardsii | crustaceans | | yes | |
| Arthropoda | Malacostraca | Palaemonella holmesi | crustaceans | | | southern algae shrimp |
| Arthropoda | Malacostraca | Paractaea rufopunctata | crustaceans | | yes | nodose rubble crab |
| Arthropoda | Malacostraca | Penaeus californiensis | crustaceans | | yes | yellowleg shrimp |
| Arthropoda | Malacostraca | Petramithrax pygmaeus | crustaceans | | | |

| phylum | class | species | group | category | new | vernacular |
|------------------------|---------------------|--------------------------------------------------------|--------------|----------|-------|------------------------------------|
| Arthropoda | Malacostraca | Plagusia squamosa | crustaceans | | yes | scaly rock crab |
| Arthropoda | Malacostraca | Teleophrys cristulipes | crustaceans | | , , , | , |
| Arthropoda | Malacostraca | Trapezia bidentata | crustaceans | | | |
| Arthropoda | Thecostraca | Balanus trigonus | crustaceans | | yes | |
| Arthropoda | Thecostraca | Chthamalus hedgecocki | crustaceans | | yes | |
| Arthropoda | Thecostraca | Chthamalus panamensis | crustaceans | | yes | |
| Ascomycota | Dothideomycetes | Cladosporium herbarum | fungi | | yes | |
| Bacillariophyta | Bacillariophyceae | Bellerochea polymorpha | algae | | yes | |
| Bacillariophyta | Bacillariophyceae | Chaetoceros socialis | algae | | yes | |
| Bacillariophyta | Bacillariophyceae | Cylindrotheca closterium | algae | | yes | |
| Bacillariophyta | Bacillariophyceae | Eucampia striata | algae | | yes | |
| Bacillariophyta | Bacillariophyceae | Eucampia zodiacus | algae | | yes | |
| Bacillariophyta | Bacillariophyceae | Helicotheca tamesis | algae | | yes | |
| Bacillariophyta | Bacillariophyceae | Hemiaulus sinensis | algae | | yes | |
| Bacillariophyta | Bacillariophyceae | Lithodesmioides polymorpha | algae | | yes | |
| Bacillariophyta | Bacillariophyceae | Navicula minima | algae | | yes | |
| Bacillariophyta | Bacillariophyceae | Pinnularia acrosphaeria | algae | | | |
| Bacillariophyta | Bacillariophyceae | Pseudo-nitzschia circumpora | algae | | yes | |
| . , | . , | Pseudo-nitzschia circumpora Pseudo-nitzschia cuspidata | 9 | | yes | |
| Bacillariophyta | Bacillariophyceae | | algae | | yes | |
| Bacillariophyta | Bacillariophyceae | Pseudo-nitzschia multistriata | algae | | yes | |
| Bacillariophyta | Bacillariophyceae | Pseudo-nitzschia sabit | algae | | yes | |
| Bacillariophyta | Bacillariophyceae | Skeletonema menzelii | algae | | yes | |
| Bacillariophyta | Bacillariophyceae | Stephanopyxis turris | algae | | yes | |
| Bacillariophyta | Bacillariophyceae | Sundstroemia setigera | algae | | yes | |
| Bacillariophyta | Bacillariophyceae | Thalassionema nitzschioides | algae | | yes | |
| Bacillariophyta | Bacillariophyceae | Triceratium intricatum | algae | | yes | |
| Basidiomycota | Agaricomycetes | Schizophyllum commune | | | yes | |
| Bryozoa | Gymnolaemata | Amathia evelinae | moss animals | | yes | |
| Bryozoa | Gymnolaemata | Celleporaria inaudita | moss animals | | yes | |
| Cercozoa | Chlorarachnea | Bigelowiella natans | unicellular | | yes | |
| Cercozoa | Chlorarachnea | Chlorarachnion reptans | unicellular | | yes | |
| Chaetognatha | Sagittoidea | Aidanosagitta neglecta | arrow worms | | yes | |
| Chaetognatha | Sagittoidea | Flaccisagitta enflata | arrow worms | | yes | |
| Chaetognatha | Sagittoidea | Krohnitta subtilis | arrow worms | | yes | |
| Chaetognatha | Sagittoidea | Zonosagitta pulchra | arrow worms | | yes | |
| Chlorophyta | Mamiellophyceae | Bathycoccus prasinos | algae | | yes | |
| Chlorophyta | Mamiellophyceae | Dolichomastix tenuilepis | algae | | yes | |
| Chlorophyta | Mamiellophyceae | Micromonas commoda | algae | | yes | |
| Chlorophyta | Mamiellophyceae | Micromonas pusilla | algae | | yes | |
| Chlorophyta | Pyramimonadophyceae | Pseudoscourfieldia marina | algae | | yes | |
| Chlorophyta | Pyramimonadophyceae | Pycnococcus provasolii | algae | | yes | |
| Chlorophyta | Ulvophyceae | Oltmannsiellopsis viridis | algae | | yes | |
| Chlorophyta | | Chloroparvula pacifica | algae | | yes | |
| Chlorophyta | | Chloropicon laureae | algae | | yes | |
| Chlorophyta | | Chloropicon primus | algae | | yes | |
| Chlorophyta | | Chloropicon roscoffensis | algae | | yes | |
| Chlorophyta | | Chloropicon sieburthii | algae | | yes | |
| Chordata | Amphibia | Rhinella horribilis | amphibians | | yes | |
| Chordata | Amphibia | Rhinella marina | amphibians | LC | | cane toad |
| Chordata | Ascidiacea | Botrylloides niger | sea squirts | - | yes | Black synascidia, Synascidie noire |
| Continued on post page | 50.0.000 | , | Jou Squii to | | , 55 | |

Chordata
Continued on next page

| phylum | class | species | group | category | new | vernacular |
|----------|----------------|--------------------------------------------------|---------|----------|-----|-------------------------------------|
| Chordata | Aves | Columba livia | birds | LC | yes | |
| Chordata | Aves | Meleagris gallopavo | birds | LC | yes | |
| Chordata | Aves | Pelecanus occidentalis | birds | LC | | brown pelican, pélican brun |
| Chordata | Elasmobranchii | Aetobatus narinari | fish | EN | yes | spotted eagle ray |
| Chordata | Elasmobranchii | Alopias pelagicus | fish | EN | yes | thresher shark, renard pélagique |
| Chordata | Elasmobranchii | Carcharhinus leucas | fish | VU | | bull shark, requin-bouledogue |
| Chordata | Elasmobranchii | Carcharhinus limbatus | fish | VU | | blacktip shark |
| Chordata | Elasmobranchii | Hypanus americanus | fish | NT | yes | |
| Chordata | Elasmobranchii | Hypanus longus | fish | VU | | |
| Chordata | Elasmobranchii | Mobula birostris | fish | EN | yes | |
| Chordata | Elasmobranchii | Mobula munkiana | fish | VU | yes | pygmy devil ray |
| Chordata | Elasmobranchii | Mobula thurstoni | fish | EN | | smoothtail mobula |
| Chordata | Elasmobranchii | Triaenodon obesus | fish | VU | | whitetip reef shark |
| Chordata | Leptocardii | Branchiostoma lanceolatum | | | ves | lancelet, amphioxus |
| Chordata | Mammalia | Tursiops truncatus | mammals | LC | , | bottlenose dolphin, grand dauphin |
| Chordata | Teleostei | Abantennarius coccineus | fish | LC | | sectionese despinit, grand daupinit |
| Chordata | Teleostei | Abantennarius sanguineus | fish | | | |
| Chordata | Teleostei | Ablennes hians | fish | LC | | flat needlefish |
| Chordata | Teleostei | Abudefduf saxatilis | fish | LC | | sergeant major |
| Chordata | Teleostei | Abudefduf taurus | fish | LC | ves | night sergeant |
| Chordata | Teleostei | Abudefduf troschelii | fish | LC | yes | Panamic sergeant major |
| Chordata | Teleostei | Acanthocybium solandri | fish | LC | | wahoo |
| Chordata | Teleostei | - | fish | LC | | |
| Chordata | Teleostei | Acanthurus triostegus Acanthurus xanthopterus | fish | LC | | convict surgeonfish |
| | Teleostei | Alectis ciliaris | | LC | | yellowfin surgeonfish |
| Chordata | | | fish | LC | | African pompano |
| Chordata | Teleostei | Aluterus scriptus | fish | | | scrawled filefish |
| Chordata | Teleostei | Anchoa hepsetus | fish | LC | yes | striped anchovy |
| Chordata | Teleostei | Anchoa ischana | fish | LC | yes | sharpnose anchovy |
| Chordata | Teleostei | Anchoa mundeoloides | fish | LC | yes | northern Gulf anchovy |
| Chordata | Teleostei | Anchoa nasus | fish | LC | yes | bignose anchovy |
| Chordata | Teleostei | Anchovia macrolepidota | fish | LC | | bigscale anchovy |
| Chordata | Teleostei | Apogon binotatus | fish | LC | yes | barred cardinalfish |
| Chordata | Teleostei | Apogon pacificus | fish | LC | | pink cardinalfish |
| Chordata | Teleostei | Arothron hispidus | fish | LC | | bristly puffer |
| Chordata | Teleostei | Arothron meleagris | fish | LC | | Guineafowl puffer |
| Chordata | Teleostei | Atule mate | fish | LC | yes | yellowtail scad |
| Chordata | Teleostei | Auxis rochei | fish | LC | yes | Bonito, bonite |
| Chordata | Teleostei | Auxis thazard | fish | LC | yes | frigate tuna, auxide |
| Chordata | Teleostei | Axoclinus lucillae | fish | LC | | Panamic triplefin |
| Chordata | Teleostei | Azurina atrilobata | fish | | | |
| Chordata | Teleostei | Bagre panamensis | fish | LC | yes | chihuil |
| Chordata | Teleostei | Balistes polylepis | fish | LC | | finescale triggerfish |
| Chordata | Teleostei | Bathygobius andrei | fish | LC | | - |
| Chordata | Teleostei | Bathygobius fuscus | fish | LC | yes | dusky frill-goby |
| Chordata | Teleostei | Bathygobius lineatus | fish | VU | - | |
| Chordata | Teleostei | Bathygobius ramosus | fish | LC | | Panamic frillfin |
| Chordata | Teleostei | Benthosema panamense | fish | LC | | |
| Chordata | Teleostei | Benthosema pterotum | fish | LC | ves | skinnycheek lanternfish |
| Chordata | Teleostei | Bodianus diplotaenia | fish | LC | , | Mexican hogfish |
| Chordata | Teleostei | Bregmaceros bathymaster | fish | LC | | East Pacific codlet |

| phylum | class | species | group | category | new | vernacular |
|----------|-----------|---------------------------------------------|-------|----------|-----|-------------------------------------------|
| Chordata | Teleostei | Bryx dunckeri | fish | LC | yes | pugnose pipefish |
| Chordata | Teleostei | Calamus penna | fish | LC | yes | sheepshead porgy |
| Chordata | Teleostei | Canthidermis maculata | fish | LC | | rough triggerfish |
| Chordata | Teleostei | Canthigaster janthinoptera | fish | LC | | spotted puffer |
| Chordata | Teleostei | Caranx caballus | fish | LC | | green jack |
| Chordata | Teleostei | Caranx caninus | fish | LC | | Pacific crevalle jack |
| Chordata | Teleostei | Caranx hippos | fish | LC | ves | common jack, carangue crevalle |
| Chordata | Teleostei | Caranx latus | fish | LC | ves | horse-eye jack |
| Chordata | Teleostei | Caranx melampygus | fish | LC | , | bluefin trevally |
| Chordata | Teleostei | Caranx sexfasciatus | fish | LC | | bigeye trevally |
| Chordata | Teleostei | Centropomus armatus | fish | LC | | longspine snook |
| Chordata | Teleostei | Centropomus medius | fish | LC | | blackfin snook |
| Chordata | Teleostei | Centropomus nigrescens | fish | LC | | black snook |
| Chordata | Teleostei | Cephalopholis cruentata | fish | LC | ves | graysby |
| Chordata | Teleostei | Cephalopholis panamensis | fish | LC | ycs | Panama graysby |
| Chordata | Teleostei | Cetengraulis mysticetus | fish | LC | yes | anchoveta |
| Chordata | Teleostei | Chaenomugil proboscideus | fish | LC | yes | snouted mullet |
| Chordata | Teleostei | Chaenopsis celeste | fish | LC | | Shouted mullet |
| Chordata | Teleostei | Chaetodipterus faber | fish | LC | yes | Atlantic spadefish |
| Chordata | | Chaetodopterus raber Chaetodon ocellatus | fish | | yes | • |
| | Teleostei | | | LC | yes | spotfin butterflyfish |
| Chordata | Teleostei | Charles chanos | fish | LC | | milkfish, chano |
| Chordata | Teleostei | Cheilopogon spilonotopterus | fish | 1.6 | yes | stained flyingfish |
| Chordata | Teleostei | Chilara taylori | fish | LC | yes | spotted cusk-eel |
| Chordata | Teleostei | Chloroscombrus chrysurus | fish | LC | yes | Atlantic bumper |
| Chordata | Teleostei | Cirrhitichthys oxycephalus | fish | LC | | pixy hawkfish |
| Chordata | Teleostei | Cirrhitus rivulatus | fish | LC | | giant hawkfish |
| Chordata | Teleostei | Citharichthys gilberti | fish | LC | | bigmouth sanddab |
| Chordata | Teleostei | Citharichthys sordidus | fish | LC | yes | Pacific sanddab, limande sordide |
| Chordata | Teleostei | Conodon serrifer | fish | LC | yes | armed grunt |
| Chordata | Teleostei | Coryphaena hippurus | fish | LC | | common dolphinfish, corphène commune |
| Chordata | Teleostei | Coryphopterus urospilus | fish | LC | | redlight goby |
| Chordata | Teleostei | Ctenogobius sagittula | fish | LC | | longtail goby |
| Chordata | Teleostei | Cyclopsetta fimbriata | fish | LC | yes | spotfin flounder |
| Chordata | Teleostei | Decapterus macarellus | fish | LC | | mackerel scad |
| Chordata | Teleostei | Deckertichthys aureolus | fish | | | |
| Chordata | Teleostei | Dialommus macrocephalus | fish | LC | | foureye rockskipper |
| Chordata | Teleostei | Diapterus auratus | fish | LC | yes | Irish mojarra |
| Chordata | Teleostei | Diapterus brevirostris | fish | | | |
| Chordata | Teleostei | Diodon holocanthus | fish | LC | | balloonfish |
| Chordata | Teleostei | Diodon hystrix | fish | LC | | spot-fin porcupinefish |
| Chordata | Teleostei | Echidna catenata | fish | LC | ves | chain moray |
| Chordata | Teleostei | Echidna nebulosa | fish | LC | , | snowflake moray |
| Chordata | Teleostei | Elacatinus puncticulatus | fish | LC | | redhead goby |
| Chordata | Teleostei | Elagatis bipinnulata | fish | LC | | rainbow runner |
| Chordata | Teleostei | Eleotris picta | fish | LC | | spotted sleeper |
| Chordata | Teleostei | Elops saurus | fish | LC | yes | ladyfish |
| Chordata | Teleostei | Enchelycore nigricans | fish | LC | ves | viper moray |
| Chordata | Teleostei | Engraulis japonicus | fish | LC | yes | Japanese anchovy |
| Chordata | Teleostei | Engraulis mordax | fish | DD | ves | Californian anchovy, anchois du Pacifique |
| Chordata | Teleostei | Entomacrodus chiostictus | fish | LC | yCJ | notchfin blenny |

| phylum | class | species | group | category | new | vernacular |
|----------|-----------|---------------------------------------------|-------|----------|------|-----------------------------------------------|
| Chordata | Teleostei | Entomacrodus sealei | fish | LC | yes | |
| Chordata | Teleostei | Erotelis armiger | fish | DD | | flathead sleeper |
| Chordata | Teleostei | Etropus crossotus | fish | LC | yes | fringed flounder |
| Chordata | Teleostei | Eucinostomus currani | fish | LC | - | Pacific flagfin mojarra |
| Chordata | Teleostei | Eucinostomus dowii | fish | LC | ves | Pacific spotfin mojarra |
| Chordata | Teleostei | Eucinostomus gracilis | fish | LC | , | graceful mojarra |
| Chordata | Teleostei | Eucinostomus gula | fish | LC | yes | Jenny mojarra |
| Chordata | Teleostei | Eucinostomus melanopterus | fish | LC | ves | flagfin mojarra |
| Chordata | Teleostei | Euleptorhamphus viridis | fish | | , , | ribbon halfbeak |
| Chordata | Teleostei | Euthynnus affinis | fish | LC | ves | kawakawa, thonine orientale |
| Chordata | Teleostei | Evorthodus minutus | fish | LC | , | small goby |
| Chordata | Teleostei | Fistularia commersonii | fish | LC | | cornetfish |
| Chordata | Teleostei | Fodiator acutus | fish | LC | | sharpchin flyingfish |
| Chordata | Teleostei | Gerres cinereus | fish | LC | | yellowfin mojarra |
| Chordata | Teleostei | Gillellus greyae | fish | LC | ves | arrow stargazer |
| Chordata | Teleostei | Gnathanodon speciosus | fish | LC | , 00 | golden trevally |
| Chordata | Teleostei | Gobiomorus maculatus | fish | LC | ves | Pacific sleeper |
| Chordata | Teleostei | Gobulus birdsongi | fish | CR | ves | r deme siceper |
| Chordata | Teleostei | Gymnomuraena zebra | fish | LC | ycs | zebra moray |
| Chordata | Teleostei | Gymnothorax buroensis | fish | LC | | vagrant moray |
| Chordata | Teleostei | Gymnothorax burdensis Gymnothorax castaneus | fish | LC | | Panamic green moray |
| Chordata | Teleostei | Gymnothorax miliaris | fish | LC | ves | goldentail moray |
| Chordata | Teleostei | Gymnothorax undulatus | fish | LC | yes | undulated moray |
| Chordata | Teleostei | Haemulon aurolineatum | fish | LC | | • |
| | Teleostei | | | LC | yes | tomtate grunt |
| Chordata | | Haemulon flaviguttatum | fish | LC | | Cortez grunt |
| Chordata | Teleostei | Haemulon maculicauda | fish | | | spottail grunt |
| Chordata | Teleostei | Haemulon plumierii | fish | LC | yes | grunt |
| Chordata | Teleostei | Haemulon sexfasciatum | fish | LC | | graybar grunt |
| Chordata | Teleostei | Haemulopsis axillaris | fish | LC | yes | yellowstripe grunt |
| Chordata | Teleostei | Haemulopsis leuciscus | fish | LC | | raucous grunt |
| Chordata | Teleostei | Haemulopsis nitidus | fish | LC | | shining grunt |
| Chordata | Teleostei | Halichoeres adustus | fish | VU | yes | black wrasse |
| Chordata | Teleostei | Halichoeres chierchiae | fish | LC | | wounded wrasse |
| Chordata | Teleostei | Halichoeres dispilus | fish | LC | | chameleon wrasse |
| Chordata | Teleostei | Halichoeres garnoti | fish | LC | yes | yellowhead wrasse |
| Chordata | Teleostei | Halichoeres melanotis | fish | LC | | golden wrasse |
| Chordata | Teleostei | Halichoeres nicholsi | fish | LC | | spinster wrasse |
| Chordata | Teleostei | Halichoeres notospilus | fish | LC | | banded wrasse |
| Chordata | Teleostei | Harengula humeralis | fish | LC | yes | pilchard |
| Chordata | Teleostei | Hemanthias signifer | fish | LC | | hookthroat bass |
| Chordata | Teleostei | Hemiramphus balao | fish | LC | yes | balao |
| Chordata | Teleostei | Hemiramphus lutkei | fish | | yes | Lutke's halbeak |
| Chordata | Teleostei | Holacanthus passer | fish | LC | | king angelfish |
| Chordata | Teleostei | Holocentrus adscensionis | fish | LC | yes | squirrelfish |
| Chordata | Teleostei | Hoplopagrus guentherii | fish | LC | | barred pargo |
| Chordata | Teleostei | Hyporhamphus unifasciatus | fish | LC | yes | common halfbeak |
| Chordata | Teleostei | Isopisthus remifer | fish | LC | yes | bigeye corvina |
| Chordata | Teleostei | Istiophorus platypterus | fish | VÜ | - | Indo-Pacific sailfish, voilier indo-pacifique |
| Chordata | Teleostei | Johnrandallia nigrirostris | fish | LC | | barberfish |
| Chordata | Teleostei | Kyphosus elegans | fish | LC | | Cortez sea chub |

| phylum | class | species | group | category | new | vernacular |
|-------------------|-----------|-------------------------------|-------|----------|-----|-----------------------------------------------|
| Chordata | Teleostei | Kyphosus ocyurus | fish | | | |
| Chordata | Teleostei | Kyphosus vaigiensis | fish | LC | | brassy chub |
| Chordata | Teleostei | Larimus breviceps | fish | LC | yes | |
| Chordata | Teleostei | Larimus pacificus | fish | LC | yes | Pacific drum |
| Chordata | Teleostei | Lutjanus aratus | fish | LC | | mullet snapper |
| Chordata | Teleostei | Lutjanus argentiventris | fish | LC | | amarillo snapper |
| Chordata | Teleostei | Lutjanus campechanus | fish | VÜ | ves | northern red snapper |
| Chordata | Teleostei | Lutjanus colorado | fish | LC | , | colorado snapper |
| Chordata | Teleostei | Lutjanus fulvus | fish | LC | ves | blacktail snapper |
| Chordata | Teleostei | Lutjanus griseus | fish | LC | yes | grey snapper |
| Chordata | Teleostei | Lutjanus guttatus | fish | LC | , | spotted rose snapper |
| Chordata | Teleostei | Lutjanus novemfasciatus | fish | LC | | Pacific dog snapper |
| Chordata | Teleostei | Malacoctenus ebisui | fish | LC | | fishgod blenny |
| Chordata | Teleostei | Malacoctenus triangulatus | fish | LC | ves | saddled blenny |
| Chordata | Teleostei | Melichthys vidua | fish | LC | ves | pinktail triggerfish |
| Chordata | Teleostei | Microgobius brevispinis | fish | LC | yes | Balboa goby |
| Chordata | Teleostei | Microspathodon chrysurus | fish | LC | ves | vellowtail damselfish |
| Chordata | Teleostei | Microspathodon dorsalis | fish | LC | yes | giant damselfish |
| | | • | | | | 9 |
| Chordata | Teleostei | Mugil curema | fish | LC | | silverside mullet |
| Chordata | Teleostei | Mulloidichthys martinicus | fish | LC | yes | yellow goatfish |
| Chordata | Teleostei | Mulloidichthys vanicolensis | fish | LC | | yellowfin goatfish |
| Chordata | Teleostei | Muraena lentiginosa | fish | LC | | jewel moray |
| Chordata | Teleostei | Myctophum nitidulum | fish | LC | yes | lanternfish |
| Chordata | Teleostei | Myripristis leiognathus | fish | LC | | Panamic soldierfish |
| Chordata | Teleostei | Myrophis vafer | fish | LC | | Pacific worm eel |
| Chordata | Teleostei | Nematistius pectoralis | fish | | | roosterfish |
| Chordata | Teleostei | Novaculichthys taeniourus | fish | LC | | rockmover wrasse |
| Chordata | Teleostei | Ocyurus chrysurus | fish | DD | yes | yellowtail snapper |
| Chordata | Teleostei | Ogilbia cayorum | fish | LC | yes | key brotula |
| Chordata | Teleostei | Oligoplites altus | fish | LC | | longjaw leatherjack |
| Chordata | Teleostei | Oligoplites saurus | fish | LC | yes | leatherjack |
| Chordata | Teleostei | Ophichthus zophochir | fish | LC | yes | yellow snake eel |
| Chordata | Teleostei | Ophioblennius atlanticus | fish | LC | yes | |
| Chordata | Teleostei | Ophioblennius steindachneri | fish | LC | | Panamic fanged blenny |
| Chordata | Teleostei | Opisthonema bulleri | fish | LC | | slender thread herring |
| Chordata | Teleostei | Opisthonema libertate | fish | LC | yes | deepbody thread herring, Chardin du Pacifique |
| Chordata | Teleostei | Opisthonema oglinum | fish | LC | yes | Atlantic thread herring |
| Chordata | Teleostei | Oxyzygonectes dovii | fish | LC | | |
| Chordata | Teleostei | Paraconger caudilimbatus | fish | LC | yes | margintail conger |
| Chordata | Teleostei | Paranthias colonus | fish | | - | Pacific creolefish |
| Chordata | Teleostei | Parexocoetus brachypterus | fish | | | sailfin flyingfish |
| Chordata | Teleostei | Plagiotremus azaleus | fish | LC | | sabertooth blenny |
| Chordata | Teleostei | Platybelone argalus | fish | LC | | keeltail needlefish |
| Chordata | Teleostei | Poeciliopsis elongata | fish | NT | | |
| Chordata | Teleostei | Polydactylus approximans | fish | LC | | blue bobo, barbure bleu |
| Chordata | Teleostei | Polydactylus virginicus | fish | LC | ves | barbu, barbure de flaque |
| Chordata | Teleostei | Pomacanthus zonipectus | fish | LC | , | Cortez angelfish |
| Chordata | Teleostei | Prionurus laticlavius | fish | LC | | razor surgeonfish |
| Chordata | Teleostei | Pronotogrammus multifasciatus | fish | LC | ves | threadfin bass |
| Chordata | Teleostei | Pseudobalistes naufragium | fish | LC | yCS | blunthead triggerfish |
| Continued on next | | 1 Schoodinstes Haurragiani | 11311 | | | Manuficaa diiggeriisii |

| phylum | class | species | group | category | new | vernacular |
|----------|------------|----------------------------|-------------|----------|------|---------------------------------------------|
| Chordata | Teleostei | Pseudogramma thaumasia | fish | | | |
| Chordata | Teleostei | Pseudupeneus grandisquamis | fish | LC | | bigscale goatfish |
| Chordata | Teleostei | Ptereleotris carinata | fish | LC | | Panamic dartfish |
| Chordata | Teleostei | Rhencus macracanthus | fish | | | |
| Chordata | Teleostei | Rhonciscus branickii | fish | | yes | |
| Chordata | Teleostei | Rypticus saponaceus | fish | LC | ves | greater soapfish |
| Chordata | Teleostei | Sargocentron suborbitale | fish | | , | |
| Chordata | Teleostei | Scarus ghobban | fish | LC | | bluechin parrotfish |
| Chordata | Teleostei | Scarus perrico | fish | LC | | bumphead parrotfish |
| Chordata | Teleostei | Scarus rubroviolaceus | fish | LC | | ember parrotfish |
| Chordata | Teleostei | Sciades dowii | fish | LC | | |
| Chordata | Teleostei | Scomberomorus sierra | fish | LC | | Pacific sierra |
| Chordata | Teleostei | Scorpaenodes xyris | fish | LC | | rainbow scorpionfish |
| Chordata | Teleostei | Selar crumenophthalmus | fish | LC | | bigeye scad |
| Chordata | Teleostei | Selene peruviana | fish | LC | | Pacific moonfish |
| Chordata | Teleostei | Seriola lalandi | fish | LC | | yellowtail, sériole chicard |
| Chordata | Teleostei | Serranus aeguidens | fish | LC | | deepwater serrano |
| Chordata | Teleostei | Sicydium salvini | fish | LC | | deepwater Serrano |
| Chordata | Teleostei | 3 | fish | LC | yes | hullanua muffan |
| | | Sphoeroides annulatus | | | | bullseye puffer |
| Chordata | Teleostei | Sphyraena ensis | fish | LC | | Mexican barracuda |
| Chordata | Teleostei | Sphyraena guachancho | fish | LC | yes | guaguanche |
| Chordata | Teleostei | Spratelloides delicatulus | fish | LC | yes | delicate round herring |
| Chordata | Teleostei | Starksia ocellata | fish | LC | yes | checkered blenny |
| Chordata | Teleostei | Stegastes flavilatus | fish | LC | | beaubrummel |
| Chordata | Teleostei | Stegastes rectifraenum | fish | LC | | Cortez damselfish |
| Chordata | Teleostei | Sufflamen verres | fish | LC | | orangeside triggerfish |
| Chordata | Teleostei | Syacium papillosum | fish | LC | yes | dusky flounder |
| Chordata | Teleostei | Synodus lacertinus | fish | LC | | calico lizardfish |
| Chordata | Teleostei | Tetrapturus angustirostris | fish | DD | yes | shortbill spearfish, makaire à rostre court |
| Chordata | Teleostei | Thalassoma lucasanum | fish | LC | | Cortez rainbow wrasse |
| Chordata | Teleostei | Thunnus alalunga | fish | LC | yes | albacore, thon blanc |
| Chordata | Teleostei | Trachinotus carolinus | fish | LC | yes | pompano |
| Chordata | Teleostei | Trachinotus goodei | fish | LC | yes | palometa |
| Chordata | Teleostei | Trachinotus rhodopus | fish | LC | | gafftopsail pompano |
| Chordata | Teleostei | Trichiurus lepturus | fish | LC | | largehead hairtail, poisson-sabre commun |
| Chordata | Teleostei | Tylosurus acus | fish | LC | | agujon needlefish |
| Chordata | Teleostei | Tylosurus crocodilus | fish | LC | | houndfish |
| Chordata | Teleostei | Uropterygius macularius | fish | LC | yes | marbled moray |
| Chordata | Teleostei | Vinciquerria lucetia | fish | LC | | • |
| Chordata | Teleostei | Xenichthys xanti | fish | LC | | longfin salema |
| Chordata | Teleostei | Zanclus cornutus | fish | LC | | Moorish idol |
| Chordata | | Eretmochelys imbricata | turtles | CR | | hawksbill turtle, caret |
| Chordata | | Iguana iguana | 22 2.00 | LC | yes | |
| Cnidaria | Anthozoa | Diadumene leucolena | cnidarians | | yes | white anemone |
| Cnidaria | Anthozoa | Exaiptasia diaphana | cnidarians | | , | |
| Cnidaria | Anthozoa | Heterocyathus sulcatus | cnidarians | LC | yes | striped bum coral |
| Cnidaria | Anthozoa | Isarachnanthus nocturnus | cnidarians | | yes | 50. psa 5a 601ai |
| Cnidaria | Anthozoa | Nanozoanthus harenaceus | cnidarians | | yes | |
| Cnidaria | Anthozoa | Oulastrea crispata | cnidarians | LC | yes | zebra coral |
| | AIILIIUZUa | Quiastica Clispata | Ciliuarians | LC | ycs. | ZCDI a COI ai |

| phylum | class | species | group | category | new | vernacular |
|---------------|---------------|---------------------------------------|-------------|----------|------------|-----------------------|
| Cnidaria | Anthozoa | Pocillopora damicornis | cnidarians | LC | | cauliflower coral |
| Cnidaria | Anthozoa | Pocillopora verrucosa | cnidarians | LC | yes | cauliflower coral |
| Cnidaria | Hydrozoa | Agalma okenii | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Aglaophenia prominens | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Athorybia rosacea | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Campanularia hincksii | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Clytia brevithecata | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Clytia gracilis | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Clytia linearis | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Diphyes bojani | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Diphyes dispar | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Forskalia edwardsii | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Forskalia tholoides | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Halopteris violae | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Kirchenpaueria halecioides | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Larsonia pterophylla | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Lensia conoidea | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Liriope tetraphylla | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Macrorhynchia philippina | cnidarians | | , | stinging hydroid |
| Cnidaria | Hydrozoa | Nanomia bijuga | cnidarians | | yes | sunging nyarora |
| Cnidaria | Hydrozoa | Nemalecium lighti | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Obelia bidentata | cnidarians | | , 00 | doubletoothed hydroid |
| Cnidaria | Hydrozoa | Obelia dichotoma | cnidarians | | | sea thread hydroid |
| Cnidaria | Hydrozoa | Plumularia floridana | cnidarians | | yes | ood iiii odd iigaroid |
| Cnidaria | Hydrozoa | Plumularia setacea | cnidarians | | yes | little seabristle |
| Cnidaria | Hydrozoa | Porpita porpita | cnidarians | | yes | blue button |
| Cnidaria | Hydrozoa | Rhizophysa filiformis | cnidarians | | yes | side sactori |
| Cnidaria | Hydrozoa | Rosacea flaccida | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Sphaeronectes koellikeri | cnidarians | | yes | |
| Cnidaria | Hydrozoa | Zancleopsis dichotoma | cnidarians | | yes | |
| Cnidaria | Scyphozoa | Nausithoe maculata | cnidarians | | yes | |
| Cryptophyta | Cryptophyceae | Hemiarma marina | cindarians | | yes | |
| Ctenophora | Tentaculata | Ocyropsis maculata | cnidarians | | yes | ocyroé tachée |
| Echinodermata | Asteroidea | Acanthaster planci | echinoderms | | yes | crown-of-thorns |
| Echinodermata | Asteroidea | Astropecten armatus | echinoderms | | | Crown or thorns |
| Echinodermata | Asteroidea | Luidia magnifica | echinoderms | | yes | |
| Echinodermata | Asteroidea | Pentaceraster cumingi | echinoderms | | yes | |
| Echinodermata | Echinoidea | Agassizia scrobiculata | echinoderms | | yes | |
| Echinodermata | Echinoidea | Diadema mexicanum | echinoderms | | ycs | |
| Echinodermata | Echinoidea | Echinometra vanbrunti | echinoderms | | | |
| Echinodermata | Echinoidea | Encope micropora | echinoderms | | yes | |
| Echinodermata | Echinoidea | Lovenia cordiformis | echinoderms | | yes | |
| Echinodermata | Echinoidea | Mellitella stokesii | echinoderms | | yes | |
| Echinodermata | Echinoidea | Toxopneustes pileolus | echinoderms | | yes | |
| Echinodermata | Echinoidea | Toxopheustes roseus | echinoderms | | ycs | |
| Echinodermata | Holothuroidea | Holothuria (Mertensiothuria) hilla | echinoderms | | yes | |
| Echinodermata | Holothuroidea | Holothuria (Thymiosycia) impatiens | echinoderms | | yes | |
| Echinodermata | Holothuroidea | Polyplectana kefersteinii | echinoderms | | Vec | |
| Echinodermata | Ophiuroidea | Amphipholis squamata | echinoderms | | yes yes | dwarf brittle star |
| Echinodermata | Ophiuroidea | · · · · · · · · · · · · · · · · · · · | echinoderms | | - | GWAIT DITTIE STAL |
| Lciinodermata | Ортнигогаеа | Ophiactis savignyi | echinoderms | | yes | |

| phylum | class | species | group | category | new | vernacular |
|---------------|-------------------|-----------------------------------|-------------|----------|-----|------------------------------------|
| Echinodermata | Ophiuroidea | Ophiactis simplex | echinoderms | | yes | |
| Echinodermata | Ophiuroidea | Ophiocomella ophiactoides | echinoderms | | yes | |
| Echinodermata | Ophiuroidea | Ophiocomella sexradia | echinoderms | | yes | |
| Echinodermata | Ophiuroidea | Ophiothrix (Ophiothrix) spiculata | echinoderms | | yes | |
| Gastrotricha | | Urodasys calicostylis | | | yes | |
| Haptophyta | Coccolithophyceae | Chrysochromulina tobinii | algae | | yes | |
| Haptophyta | Coccolithophyceae | Emiliania huxleyi | algae | | yes | |
| Haptophyta | Coccolithophyceae | Gephyrocapsa oceanica | algae | | yes | |
| Haptophyta | Coccolithophyceae | Phaeocystis globosa | algae | | yes | |
| Mollusca | Cephalopoda | Dosidicus gigas | molluscs | DD | yes | jumbo flying squid, encornet géant |
| Mollusca | Cephalopoda | Octopus hubbsorum | molluscs | LC | - | |
| Mollusca | Gastropoda | Acanthais brevidentata | molluscs | | yes | |
| Mollusca | Gastropoda | Bittium watsoni | molluscs | | yes | |
| Mollusca | Gastropoda | Boasia chierchiae | molluscs | | yes | |
| Mollusca | Gastropoda | Cardiapoda placenta | molluscs | | ves | |
| Mollusca | Gastropoda | Cerithium adustum | molluscs | | , | |
| Mollusca | Gastropoda | Cerithium stercusmuscarum | molluscs | | | |
| Mollusca | Gastropoda | Cerithium uncinatum | molluscs | | | |
| Mollusca | Gastropoda | Cliopsis krohnii | molluscs | | yes | |
| Mollusca | Gastropoda | Corolla spectabilis | molluscs | | yes | |
| Mollusca | Gastropoda | Crepidula striolata | molluscs | | yes | |
| Mollusca | Gastropoda | Creseis conica | molluscs | | yes | |
| Mollusca | Gastropoda | Diacavolinia longirostris | molluscs | | yes | |
| Mollusca | Gastropoda | Dolabella auricularia | molluscs | | yes | wedge sea hare |
| Mollusca | Gastropoda | Echinolittorina conspersa | molluscs | | yes | weage sea hare |
| Mollusca | Gastropoda | Haminoea vesicula | molluscs | | yes | |
| Mollusca | Gastropoda | Hyalocylis striata | molluscs | | yes | |
| Mollusca | Gastropoda | Limenandra rosanae | molluscs | | yes | |
| Mollusca | Gastropoda | Littoraria varia | molluscs | | ycs | |
| Mollusca | Gastropoda | Lottia subrotundata | molluscs | | yes | |
| Mollusca | Gastropoda | Modulus modulus | molluscs | | ves | Atlantic modulus |
| Mollusca | Gastropoda | Nerita funiculata | molluscs | | ycs | Atlantic modulus |
| Mollusca | Gastropoda | Persististrombus granulatus | molluscs | | | |
| Mollusca | Gastropoda | Phestilla sibogae | molluscs | | yes | |
| Mollusca | Gastropoda | Philinopsis speciosa | molluscs | | yes | |
| Mollusca | Gastropoda | Placida brookae | molluscs | | yes | |
| Mollusca | Gastropoda | Spurilla braziliana | molluscs | | ves | |
| Mollusca | Gastropoda | • | molluscs | | yes | |
| Mollusca | • | Stylocheilus rickettsi | molluscs | | | |
| | Gastropoda | Talostolida pellucens | | | | |
| Mollusca | Gastropoda | Tambja eliora | molluscs | | yes | |
| Mollusca | Gastropoda | Turbo squamiger | molluscs | | | |
| Mollusca | Gastropoda | Vasula melones | molluscs | | | |
| Myzozoa | Dinophyceae | Amphidinium massartii | unicellular | | yes | |
| Myzozoa | Dinophyceae | Biecheleria cincta | unicellular | | yes | |
| Myzozoa | Dinophyceae | Heterocapsa rotundata | unicellular | | yes | |
| Myzozoa | Dinophyceae | Karenia brevis | unicellular | | yes | |
| Myzozoa | Dinophyceae | Karlodinium veneficum | unicellular | | yes | |
| Myzozoa | Dinophyceae | Kryptoperidinium triquetrum | unicellular | | yes | |
| Myzozoa | Dinophyceae | Protoceratium reticulatum | unicellular | | yes | |
| Ochrophyta | Dictyochophyceae | Octactis octonaria | algae | | yes | |

Ochrophyta

Continued on next page

| phylum | class | species | group | category | new | vernacular |
|------------|------------------|------------------------------|-----------------|----------|-----|-----------------------------------------------------|
| Ochrophyta | Dictyochophyceae | Pseudochattonella farcimen | algae | | yes | |
| Ochrophyta | Pelagophyceae | Pelagomonas calceolata | algae | | yes | |
| Ochrophyta | Phaeophyceae | Colpomenia sinuosa | algae | | | |
| Ochrophyta | Phaeophyceae | Hydroclathrus tenuis | algae | | yes | |
| Ochrophyta | Phaeophyceae | Mesospora indopacifica | algae | | yes | |
| Ochrophyta | Raphidophyceae | Chattonella marina | algae | | yes | |
| Ochrophyta | Raphidophyceae | Chattonella subsalsa | algae | | yes | |
| Ochrophyta | Raphidophyceae | Fibrocapsa japonica | algae | | yes | |
| Ochrophyta | Raphidophyceae | Heterosigma akashiwo | algae | | yes | |
| Oomycota | Peronosporea | Albugo candida | fungi | | yes | |
| Phoronida | | Phoronopsis californica | horseshoe worms | | yes | golden phoronid |
| Porifera | Demospongiae | Chelonaplysilla erecta | sponges | | yes | |
| Porifera | Demospongiae | Chondrosia collectrix | sponges | | yes | |
| Porifera | Demospongiae | Cladocroce burapha | sponges | | yes | |
| Porifera | Demospongiae | Cliona celata | sponges | | yes | boring sponge, clione jaune |
| Porifera | Demospongiae | Cliona mariae | sponges | | yes | Maria Santana's Cliona |
| Porifera | Demospongiae | Cliona vermifera | sponges | | yes | orange boring sponge |
| Porifera | Demospongiae | Dictyonella funicularis | sponges | | yes | |
| Porifera | Demospongiae | Gelliodes wilsoni | sponges | | yes | |
| Porifera | Demospongiae | Haliclona (Reniera) tubifera | sponges | | | |
| Porifera | Demospongiae | Haliclona pigmentifera | sponges | | yes | |
| Porifera | Demospongiae | Igernella notabilis | sponges | | yes | |
| Porifera | Demospongiae | Mycale (Carmia) cecilia | sponges | | - | |
| Porifera | Demospongiae | Pione vastifica | sponges | | | boring sponge, clione rouge |
| Porifera | Demospongiae | Spirastrella cunctatrix | sponges | | yes | encrusting orange sponge, éponge encroûtante orange |
| Porifera | Demospongiae | Svenzea cristinae | sponges | | yes | |
| Porifera | Homoscleromorpha | Oscarella pearsei | sponges | | yes | |
| Porifera | Homoscleromorpha | Plakortis halichondrioides | sponges | | yes | |
| Rhodophyta | Florideophyceae | Acanthophora spicifera | algae | | yes | |
| Rhodophyta | Florideophyceae | Antithamnion antillanum | algae | | yes | |
| Rhodophyta | Florideophyceae | Aphanta ligulata | algae | | yes | |
| Rhodophyta | Florideophyceae | Asparagopsis taxiformis | algae | | yes | |
| Rhodophyta | Florideophyceae | Ceratodictyon scoparium | algae | | yes | |
| Rhodophyta | Florideophyceae | Herposiphonia secunda | algae | | | |
| Rhodophyta | Florideophyceae | Hypnea pannosa | algae | | yes | |
| Rhodophyta | Florideophyceae | Hypnea valentiae | algae | | yes | |
| Rhodophyta | Florideophyceae | Liagora ceranoides | algae | | yes | |
| Rhodophyta | Florideophyceae | Lithophyllum prototypum | algae | | yes | |
| Rhodophyta | Florideophyceae | Melanothamnus pseudovillum | algae | | yes | |
| Rhodophyta | Florideophyceae | Melanothamnus ramireziae | algae | | yes | |
| Rhodophyta | Florideophyceae | Melanothamnus tongatensis | algae | | yes | |
| Rhodophyta | Florideophyceae | Pterocladiella caerulescens | algae | | yes | |
| Rhodophyta | Florideophyceae | Rhodachlya hawaiiana | algae | | yes | |