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

# Biodiversity survey for Aldabra Atoll

# Interim Results Based on 50% of Samples Analyzed Not for public distribution



Credit: Seychelles Island Foundation.

### **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 Aldabra Atoll in April 2023. A total of 20 samples were collected at 5 locations in the park covering different habitats: Bras Monsieur Claremont, Ile esprit, Polymnie, Settlement beach, and West Grand terre (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. From the 20 samples, 10 have now (December 2023) been processed. A second batch of samples will be processed by January 2024. DNA from these 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. The results in this preliminary report are based on a first batch of 10 samples that were analyzed covering all locations that were sampled in the World Heritage site.

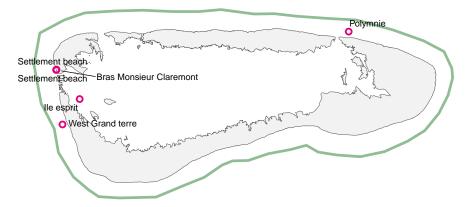


Figure 1: Map of the sampling locations.

## **DNA** sequencing

Sequencing of the DNA from 10 samples resulted in over 20 million sequence reads, from which we collected 27,478 unique sequences or ASVs (Tables 1 and 2).

| reads    | asvs  |
|----------|-------|
| 20773852 | 27478 |

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 640 species, including 303 fish species, 2 mammalian species, and 2 turtle species (Table 3). Species from other groups, such as algae, molluscs, crustaceans, sponges, and cnidarians, were also detected (Figures 2 and 3). This number of species detected represents about 35% of the 1,619 species known from Aldabra Atoll in the OBIS database. Of the 640 species detected, 362 are not among the species previously reported from Aldabra Atoll to the UNESCO OBIS database. 18 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.

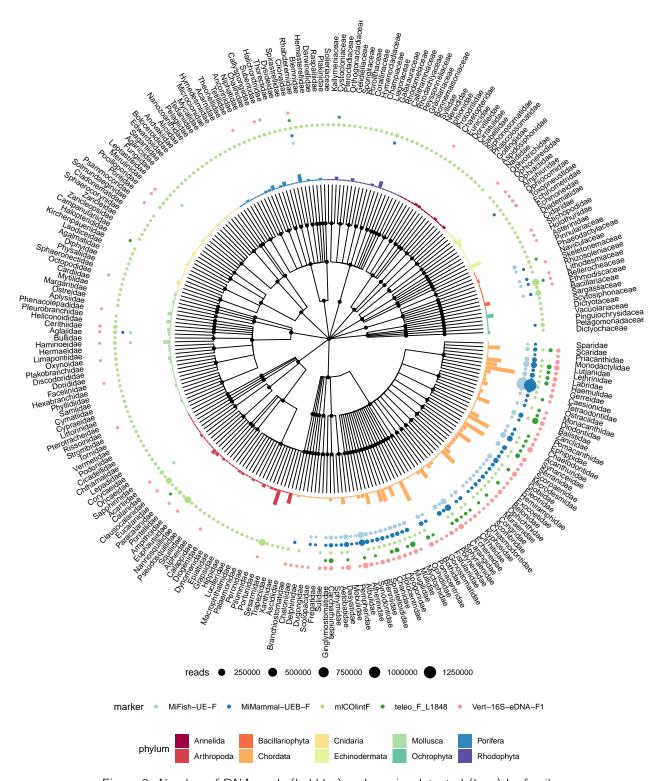


Figure 2: Number of DNA reads (bubbles) and species detected (bars) by family.

| locality                | materialSampleID | sampleSize | reads   | asvs  | species |
|-------------------------|------------------|------------|---------|-------|---------|
| Bras Monsieur Claremont | EE0475           | 1500       | 1536911 | 8743  | 198     |
| Bras Monsieur Claremont | EE0480           | 1560       | 2318711 | 8796  | 218     |
| lle esprit              | EE0472           | 1800       | 2398657 | 11901 | 258     |
| lle esprit              | EE0479           | 1800       | 1660528 | 7143  | 200     |
| Polymnie                | EE0487           | 1500       | 1272506 | 6747  | 208     |
| Polymnie                | EE0489           | 20         | 1326312 | 4327  | 83      |
| Settlement beach        | EE0473           | 1313       | 3038109 | 12103 | 303     |
| Settlement beach        | EE0474           | 1500       | 3033773 | 10723 | 306     |
| Settlement beach        | EE0488           | 1500       | 2824796 | 13373 | 308     |
| West Grand terre        | EE0490           | 1500       | 1363549 | 6610  | 191     |

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

| group   | eDNA species | total species | fraction |
|---------|--------------|---------------|----------|
| fish    | 303          | 864           | 0.35     |
| mammals | 2            | 3             | 0.67     |
| 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       | 1            | 2             | 0.50     |
| EN       | 7            | 15            | 0.47     |
| VU       | 10           | 85            | 0.12     |

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

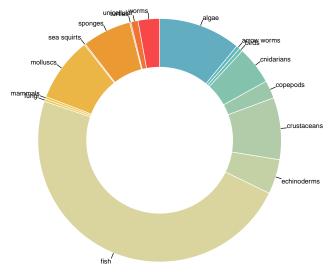


Figure 3: Distribution of detected species across groups.

| phylum     | class        | species                                 | group       | category | new  | vernacular                       |
|------------|--------------|---|-------------|----------|------|----------------------------------|
| Amoebozoa  | Discosea     | Neoparamoeba aestuarina                 | unicellular |          | yes  |                                  |
| Amoebozoa  | Discosea     | Neoparamoeba pemaquidensis              | unicellular |          | yes  |                                  |
| Annelida   | Clitellata   | Doliodrilus tener                       | worms       |          | yes  |                                  |
| Annelida   | Clitellata   | Heronidrilus fastigatus                 | worms       |          | yes  |                                  |
| Annelida   | Polychaeta   | Astomus taenioides                      | worms       |          | yes  |                                  |
| Annelida   | Polychaeta   | Bispira manicata                        | worms       |          | yes  |                                  |
| Annelida   | Polychaeta   | Chaetopterus variopedatus               | worms       |          | yes  | parchment worm, grand chétoptère |
| Annelida   | Polychaeta   | Ctenodrilus pacificus                   | worms       |          | yes  |                                  |
| Annelida   | Polychaeta   | Eunice afra                             | worms       |          | yes  |                                  |
| Annelida   | Polychaeta   | Iphione henshawi                        | worms       |          | yes  |                                  |
| Annelida   | Polychaeta   | Leonnates decipiens                     | worms       |          | yes  |                                  |
| Annelida   | Polychaeta   | Marphysa mossambica                     | worms       |          | yes  |                                  |
| Annelida   | Polychaeta   | Ophryotrocha macrovifera                | worms       |          | yes  |                                  |
| Annelida   | Polychaeta   | Phyllochaetopterus verrilli             | worms       |          | yes  |                                  |
| Annelida   | Polychaeta   | Syllis picta                            | worms       |          | yes  |                                  |
| Annelida   | <b>y</b>     | Aspidosiphon (Akrikos) albus            | worms       |          | yes  |                                  |
| Annelida   |              | Phascolosoma (Phascolosoma) nigrescens  | worms       |          | yes  |                                  |
| Annelida   |              | Phascolosoma (Phascolosoma) stephensoni | worms       |          | yes  |                                  |
| Annelida   |              | Siphonosoma funafuti                    | worms       |          | yes  |                                  |
| Annelida   |              | Themiste (Lagenopsis) lageniformis      | worms       |          | yes  |                                  |
| Arthropoda | Branchiopoda | Pseudevadne tergestina                  | crustaceans |          | yes  |                                  |
| Arthropoda | Copepoda     | Acartia (Acartia) negligens             | copepods    |          | yes  |                                  |
| Arthropoda | Copepoda     | Acrocalanus gracilis                    | copepods    |          | yes  |                                  |
| Arthropoda | Copepoda     | Calocalanus pavo                        | copepods    |          | yes  |                                  |
| Arthropoda | Copepoda     | Calocalanus plumulosus                  | copepods    |          | yes  |                                  |
| Arthropoda | Copepoda     | Calocalanus styliremis                  | copepods    |          | yes  |                                  |
| Arthropoda | Copepoda     | Clausocalanus furcatus                  | copepods    |          | yes  |                                  |
| Arthropoda | Copepoda     | Copilia hendorffi                       | copepods    |          | yes  |                                  |
| Arthropoda | Copepoda     | Farranula gibbula                       | copepods    |          | yes  |                                  |
| Arthropoda | Copepoda     | Labidocera detruncata                   | copepods    |          | yes  |                                  |
| Arthropoda | Copepoda     | Labidocera madurae                      | copepods    |          | yes  |                                  |
| Arthropoda | Copepoda     | Oncaea media                            | copepods    |          | yes  |                                  |
| Arthropoda | Copepoda     | Pareucalanus attenuatus                 | copepods    |          | yes  |                                  |
| Arthropoda | Copepoda     | Pontella fera                           | copepods    |          | yes  |                                  |
| Arthropoda | Copepoda     | Sapphirina stellata                     | copepods    |          | yes  |                                  |
| Arthropoda | Copepoda     | Undinula vulgaris                       | copepods    |          | yes  |                                  |
| Arthropoda | Hexapoda     | Macrosteles quadrilineatus              | copepous    |          | 1,00 |                                  |
| Arthropoda | Malacostraca | Alima pacifica                          | crustaceans |          | yes  |                                  |
|            |              | ·                                       |             |          | yes  |                                  |
| Arthropoda | Malacostraca | Alpheus pacificus                       | crustaceans |          | yes  |                                  |
| Arthropoda | Malacostraca | Calappa exanthematosa                   | crustaceans |          | yes  | and a state to a constant        |
| Arthropoda | Malacostraca | Calappa hepatica                        | crustaceans |          |      | smooth box crab                  |
| Arthropoda | Malacostraca | Chaenostoma boscii                      | crustaceans |          | yes  |                                  |
| Arthropoda | Malacostraca | Chaenostoma sinuspersici                | crustaceans |          | yes  |                                  |
| Arthropoda | Malacostraca | Cycloachelous granulatus                | crustaceans |          | yes  |                                  |
| Arthropoda | Malacostraca | Cyclodius obscurus                      | crustaceans |          | yes  |                                  |
| Arthropoda | Malacostraca | Cymadusa filosa                         | crustaceans |          | yes  |                                  |
| Arthropoda | Malacostraca | Dardanus deformis                       | crustaceans |          |      | pale anemone hermit              |
| Arthropoda | Malacostraca | Dardanus scutellatus                    | crustaceans |          | yes  |                                  |
| Arthropoda | Malacostraca | Dynomene praedator                      | crustaceans |          | yes  |                                  |
| Arthropoda | Malacostraca | Etisus bifrontalis                      | crustaceans |          | yes  |                                  |

| phylum          | class             | species                                     | group       | category | new  | vernacular  |
|-----------------|-------------------|---|-------------|----------|------|---|
| Arthropoda      | Malacostraca      | Euphausia diomedeae                         | crustaceans |          | yes  | <u> </u>  |
| Arthropoda      | Malacostraca      | Euphausia tenera                            | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Gaillardiellus rueppelli                    | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Gonioinfradens paucidentatus                | crustaceans |          |      |   |
| Arthropoda      | Malacostraca      | Hippa adactyla                              | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Kraussia rugulosa                           | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Leptodius gracilis                          | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Liomera bella                               | crustaceans |          | yes  | pretty liomera                                      |
| Arthropoda      | Malacostraca      | Lucifer typus                               | crustaceans |          | yes  | standard lucifer prawn, gamba des monts sous-marins |
| Arthropoda      | Malacostraca      | Lybia tessellata                            | crustaceans |          | yes  | carrying crab                                       |
| Arthropoda      | Malacostraca      | Macrophthalmus (Macrophthalmus) milloti     | crustaceans |          | yes  | , ,   |
| Arthropoda      | Malacostraca      | Menaethius monoceros                        | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Metopograpsus thukuhar                      | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Pachygrapsus minutus                        | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Palaemonella aliska                         | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Parasesarma samawati                        | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Percnon abbreviatum                         | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Percnon guinotae                            | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Pilodius areolatus                          | crustaceans |          | yes  | areolated xanthid crab                              |
| Arthropoda      | Malacostraca      | Pilumnus tahitensis                         | crustaceans |          | yes  | arcolated Admitted Crab                             |
| Arthropoda      | Malacostraca      | Pilumnus vespertilio                        | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Pseudosquilla ciliata                       | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Pullosquilla litoralis                      | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Thalamita admete                            | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Thalamita admete Thalamita chaptalii        | crustaceans |          |      |   |
| Arthropoda      | Malacostraca      | Thalamita chaptaii<br>Thalamita coeruleipes | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Thalamita coerdieipes Thalamita crenata     |             |          | yes  | cronate cuimming crah                               |
| •               | Malacostraca      |   | crustaceans |          | 1,00 | crenate swimming crab                               |
| Arthropoda      |                   | Thalamita gatavakensis                      | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Thalamita gloriensis                        | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Thalamita integra                           | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Thalamita parvidens                         | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Thalamita seurati                           | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Thalamita stephensoni                       | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Trapezia lutea                              | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Xiphonectes iranjae                         | crustaceans |          | yes  |   |
| Arthropoda      | Malacostraca      | Zosimus aeneus                              | crustaceans |          |      |   |
| Arthropoda      | Thecostraca       | Lepas (Lepas) anserifera                    | crustaceans |          | yes  | goose barnacle                                      |
| Arthropoda      | Thecostraca       | Tetrachthamalus oblitteratus                | crustaceans |          | yes  |   |
| Ascomycota      | Dothideomycetes   | Cladosporium herbarum                       | fungi       |          | yes  |   |
| Ascomycota      | Eurotiomycetes    | Penicillium digitatum                       | fungi       |          | yes  |   |
| Bacillariophyta | Bacillariophyceae | Bellerochea polymorpha                      | algae       |          | yes  |   |
| Bacillariophyta | Bacillariophyceae | Cylindrotheca closterium                    | algae       |          | yes  |   |
| Bacillariophyta | Bacillariophyceae | Ethmodiscus punctiger                       | algae       |          | yes  |   |
| Bacillariophyta | Bacillariophyceae | Haslea pseudostrearia                       | algae       |          | yes  |   |
| Bacillariophyta | Bacillariophyceae | Lithodesmioides polymorpha                  | algae       |          | yes  |   |
| Bacillariophyta | Bacillariophyceae | Navicula minima                             | algae       |          | yes  |   |
| Bacillariophyta | Bacillariophyceae | Phaeodactylum tricornutum                   | algae       |          | yes  |   |
| Bacillariophyta | Bacillariophyceae | Pinnularia acrosphaeria                     | algae       |          | yes  |   |
| Bacillariophyta | Bacillariophyceae | Pseudo-nitzschia abrensis                   | algae       |          | yes  |   |
| Bacillariophyta | Bacillariophyceae | Pseudo-nitzschia caciantha                  | algae       |          | yes  |   |

Bacillariophyta
Continued on next page

| D '11 ' 1 '          |                   | species                                       | group                | category | new | vernacular  |
|----------------------|-------------------|---|----------------------|----------|-----|---|
| Bacillariophyta      | Bacillariophyceae | Pseudo-nitzschia pseudodelicatissima          | algae                |          | yes |   |
| Bacillariophyta      | Bacillariophyceae | Pseudo-nitzschia sabit                        | algae                |          | yes |   |
| Bacillariophyta      | Bacillariophyceae | Skeletonema menzelii                          | algae                |          | yes |   |
| Bacillariophyta      | Bacillariophyceae | Sundstroemia setigera                         | algae                |          | yes |   |
| Bigyra               | Bicoecea          | Caecitellus parvulus                          |                      |          | yes |   |
| Cercozoa             | Chlorarachnea     | Bigelowiella natans                           | unicellular          |          | yes |   |
| Cercozoa             | Chlorarachnea     | Chlorarachnion reptans                        | unicellular          |          | yes |   |
| Chaetognatha         | Sagittoidea       | Aidanosagitta neglecta                        | arrow worms          |          | yes |   |
| Chaetognatha         | Sagittoidea       | Ferosagitta robusta                           | arrow worms          |          | yes |   |
| Chaetognatha         | Sagittoidea       | Krohnitta subtilis                            | arrow worms          |          | yes |   |
| Chlorophyta          | Mamiellophyceae   | Dolichomastix tenuilepis                      | algae                |          | yes |   |
| Chlorophyta          | Mamiellophyceae   | Mantoniella squamata                          | algae                |          | yes |   |
| Chlorophyta          | Mamiellophyceae   | Micromonas pusilla                            | algae                |          | yes |   |
| Chlorophyta          |                   | Chloroparvula pacifica                        | algae                |          | yes |   |
| Chlorophyta          |                   | Chloropicon laureae                           | algae                |          | yes |   |
| Chlorophyta          |                   | Chloropicon mariensis                         | algae                |          | yes |   |
| Chlorophyta          |                   | Chloropicon primus                            | algae                |          | yes |   |
| Chlorophyta          |                   | Chloropicon roscoffensis                      | algae                |          | yes |   |
| Chlorophyta          |                   | Chloropicon sieburthii                        | algae                |          |     |   |
| Chordata             | Ascidiacea        | Ascidia ahodori                               |                      |          | yes |   |
| Chordata             |                   | Arenaria interpres                            | sea squirts<br>birds | LC       | yes |   |
| Chordata             | Aves<br>Aves      |   | birds                | LC       |     | ruddy turnstone, tournepierre à collier           |
|                      |                   | Fregata minor                                 |                      |          |     | great frigatebird, frégate du Pacifique           |
| Chordata             | Aves              | Sula sula                                     | birds                | LC       |     | red-footed booby, fou à pieds rouges              |
| Chordata             | Elasmobranchii    | Aetobatus narinari                            | fish                 | EN       | yes | spotted eagle ray                                 |
| Chordata             | Elasmobranchii    | Carcharhinus amblyrhynchos                    | fish                 | EN       |     | grey reef shark                                   |
| Chordata             | Elasmobranchii    | Carcharhinus melanopterus                     | fish                 | VU       |     | blacktip reef shark                               |
| Chordata             | Elasmobranchii    | Himantura leoparda                            | fish                 | VU       | yes |   |
| Chordata             | Elasmobranchii    | Himantura uarnak                              | fish                 | EN       | yes | honeycomb stingray                                |
| Chordata             | Elasmobranchii    | Mobula birostris                              | fish                 | EN       | yes |   |
| Chordata             | Elasmobranchii    | Nebrius ferrugineus                           | fish                 | VU       |     | tawny nurse shark, requin nourrice fauve          |
| Chordata             | Elasmobranchii    | Negaprion acutidens                           | fish                 | EN       |     | sicklefin lemon shark                             |
| Chordata             | Elasmobranchii    | Pateobatis fai                                | fish                 | VU       |     |   |
| Chordata             | Elasmobranchii    | Pateobatis hortlei                            | fish                 | NT       | yes |   |
| Chordata             | Elasmobranchii    | Sphyrna lewini                                | fish                 | CR       |     | scalloped hammerhead                              |
| Chordata             | Elasmobranchii    | Taeniurops meyeni                             | fish                 | VU       |     |   |
| Chordata             | Elasmobranchii    | Urogymnus asperrimus                          | fish                 | VU       | yes | porcupine ray                                     |
| Chordata             | Leptocardii       | Asymmetron lucayanum                          |                      |          | yes |   |
| Chordata             | Leptocardii       | Epigonichthys maldivensis                     |                      |          | yes |   |
| Chordata             | Mammalia          | Dugong dugon                                  | mammals              | VU       | yes | dugong  |
| Chordata             | Mammalia          | Stenella longirostris                         | mammals              | LC       | yes | long-snouted spinner dolphin, dauphin longirostre |
| Chordata             | Teleostei         | Abudefduf sexfasciatus                        | fish                 | LC       | ,   | scissortail sergeant                              |
| Chordata             | Teleostei         | Abudefduf vaigiensis                          | fish                 | LC       |     | Indo-Pacific sergeant                             |
| Chordata             | Teleostei         | Acanthurus blochii                            | fish                 | LC       |     | ringtail surgeonfish                              |
| Chordata             | Teleostei         | Acanthurus leucosternon                       | fish                 | LC       |     | powder-blue surgeonfish                           |
| Chordata             | Teleostei         | Acanthurus lineatus                           | fish                 | LC       |     | lined surgeonfish                                 |
| Chordata             | Teleostei         | Acanthurus mata                               | fish                 | LC       |     | blue-lined surgeonfish                            |
| Chordata             | Teleostei         | Acanthurus nigricauda                         | fish                 | LC       |     | epaulette surgeonfish                             |
|                      | Teleostei         | Acanthurus nigricauda Acanthurus nigriofuscus | fish                 | LC       |     | brown surgeonfish                                 |
| Chardata             |                   |   | HSH                  | LC       |     | DIOWII SUIGEOIIISII                               |
| Chordata<br>Chordata | Teleostei         | Acanthurus tennentii                          | fish                 | LC       |     | <b>.</b>  |

| phylum               | class     | species  | group | category | new | vernacular                 |
|----------------------|-----------|--|-------|----------|-----|----------------------------|
| Chordata             | Teleostei | Acanthurus xanthopterus                        | fish  | LC       |     | yellowfin surgeonfish      |
| Chordata             | Teleostei | Acentrogobius nebulosus                        | fish  |          | yes |                            |
| Chordata             | Teleostei | Aethaloperca rogaa                             | fish  |          |     | redmouth grouper           |
| Chordata             | Teleostei | Albula glossodonta                             | fish  | VU       | yes | roundjaw bonefish          |
| Chordata             | Teleostei | Amblycirrhitus bimacula                        | fish  | LC       |     |                            |
| Chordata             | Teleostei | Amblygobius phalaena                           | fish  | LC       |     |                            |
| Chordata             | Teleostei | Anampses caeruleopunctatus                     | fish  | LC       |     | bluespotted wrasse         |
| Chordata             | Teleostei | Apogon semiornatus                             | fish  | LC       |     | obliquebanded cardinalfish |
| Chordata             | Teleostei | Apogonichthys perdix                           | fish  |          | yes | perdix cardinalfish        |
| Chordata             | Teleostei | Aprion virescens                               | fish  | LC       | ,   | green jobfish              |
| Chordata             | Teleostei | Arothron hispidus                              | fish  | LC       |     | bristly puffer             |
| Chordata             | Teleostei | Arothron meleagris                             | fish  | LC       |     | Guineafowl puffer          |
| Chordata             | Teleostei | Arothron nigropunctatus                        | fish  | LC       |     | blackspotted puffer        |
| Chordata             | Teleostei | Aspidontus taeniatus                           | fish  | LC       |     | mimic blenny               |
| Chordata             | Teleostei | Asterropteryx semipunctata                     | fish  | LC       |     | ,                          |
| Chordata             | Teleostei | Atherinomorus lacunosus                        | fish  | LC       | yes | robust silverside          |
| Chordata             | Teleostei | Balistapus undulatus                           | fish  | LC       | ,   | orangestriped              |
| Chordata             | Teleostei | Balistoides viridescens                        | fish  | LC       |     | titan triggerfish          |
| Chordata             | Teleostei | Blenniella chrysospilos                        | fish  | LC       |     | titali tinggomon           |
| Chordata             | Teleostei | Blenniella periophthalmus                      | fish  | LC       |     | blue-dashed rockskipper    |
| Chordata             | Teleostei | Bothus pantherinus                             | fish  | LC       |     | panther flounder           |
| Chordata             | Teleostei | Brotula multibarbata                           | fish  | LC       |     | goatsbeard brotula         |
| Chordata             | Teleostei | Caesio caerulaurea                             | fish  | LC       |     | blue and gold fusilier     |
| Chordata             | Teleostei | Callechelys catostoma                          | fish  | LC       |     | side difd gold rusilier    |
| Chordata             | Teleostei | Callechelys marmorata                          | fish  | LC       |     | marbled snake eel          |
| Chordata             | Teleostei | Calotomus carolinus                            | fish  | LC       |     | Carolines parrotfish       |
| Chordata             | Teleostei | Calotomus spinidens                            | fish  | LC       |     | spinytooth parrotfish      |
| Chordata             | Teleostei | Cantherhines dumerilii                         | fish  | LC       |     | barred filefish            |
| Chordata             | Teleostei | Canthernines dumeriii<br>Cantherhines pardalis | fish  | LC       |     | wier-net filefish          |
| Chordata             | Teleostei | Canthigaster bennetti                          | fish  | LC       |     | Bennett's sharpnose puffer |
| Chordata             | Teleostei | Caracanthus maculatus                          | fish  | LC       | ves | spotted coral croucher     |
| Chordata             | Teleostei | Carangoides ferdau                             | fish  | LC       | yes | blue trevally              |
| Chordata             | Teleostei | Caranx ignobilis                               | fish  | LC       |     | giant trevally             |
| Chordata             | Teleostei | Caranx melampyqus                              | fish  | LC       |     | bluefin trevally           |
| Chordata             | Teleostei | Caranx sexfasciatus                            | fish  | LC       |     | bigeye trevally            |
| Chordata             | Teleostei | Centropyge multispinis                         | fish  | LC       |     | dusky angelfish            |
| Chordata             | Teleostei | Cephalopholis argus                            | fish  | LC       |     | peacock grouper            |
| Chordata             | Teleostei | Cephalopholis miniata                          | fish  | LC       |     | coral grouper              |
|                      | Teleostei | Cephalopholis sexmaculata                      | fish  | LC       |     | sixspot grouper            |
| Chordata<br>Chordata | Teleostei | Cephalopholis sonnerati                        | fish  | LC.      |     | tomato hind                |
| Chordata             | Teleostei | Cephalopholis urodeta                          | fish  | LC       |     | darkfin hind               |
|                      |           | ·  |       | LC       |     |                            |
| Chordata             | Teleostei | Cetoscarus bicolor                             | fish  |          |     | bicolour parrotfish        |
| Chordata             | Teleostei | Chaetodon auriga                               | fish  | LC       |     | threadfin butterflyfish    |
| Chordata             | Teleostei | Chaetodon austriacus                           | fish  | LC<br>LC | yes | exquisite butterflyfish    |
| Chordata             | Teleostei | Chaetodon guttatissimus                        | fish  |          |     | peppered butterflyfish     |
| Chordata             | Teleostei | Chaetodon kleinii                              | fish  | LC       |     | sunburst butterflyfish     |
| Chordata             | Teleostei | Chaetodon melannotus                           | fish  | LC       |     | blackback butterflyfish    |
| Chordata             | Teleostei | Chaetodon meyeri                               | fish  | LC       |     | scrawled butterflyfish     |
| Chordata             | Teleostei | Chanos chanos                                  | fish  | LC       |     | milkfish, chano            |
| Chordata             | Teleostei | Cheilinus trilobatus                           | fish  | LC       |     | tripletail wrasse          |

| phylum   | class     | species                            | group | category | new  | vernacular                             |
|----------|-----------|------------------------------------|-------|----------|------|--|
| Chordata | Teleostei | Cheilinus undulatus                | fish  | EN       |      | humphead wrasse                        |
| Chordata | Teleostei | Cheilopogon cyanopterus            | fish  | LC       | yes  | margined flyingfish                    |
| Chordata | Teleostei | Cheilopogon spilonotopterus        | fish  |          | yes  | stained flyingfish                     |
| Chordata | Teleostei | Chlorurus sordidus                 | fish  | LC       | ,    | , ,                                    |
| Chordata | Teleostei | Chromis viridis                    | fish  | LC       |      | blue-green damselfish                  |
| Chordata | Teleostei | Chromis xanthochira                | fish  | LC       | yes  | <b>.</b>                               |
| Chordata | Teleostei | Chrysiptera biocellata             | fish  | LČ       | ,    | twinspot damselfish                    |
| Chordata | Teleostei | Chrysiptera brownriggii            | fish  | LC       |      |  |
| Chordata | Teleostei | Chrysiptera unimaculata            | fish  | LC       |      | onespot damselfish                     |
| Chordata | Teleostei | Cirrhitichthys oxycephalus         | fish  | ĹĊ       |      | pixv hawkfish                          |
| Chordata | Teleostei | Cirripectes castaneus              | fish  | LC       |      | chestnut blenny                        |
| Chordata | Teleostei | Cirripectes polyzona               | fish  | LC       |      | barred blenny                          |
| Chordata | Teleostei | Cirripectes quagga                 | fish  | LC       |      | squiggly blenny                        |
| Chordata | Teleostei | Cirripectes stigmaticus            | fish  | LC       | yes  | red-streaked blenny                    |
| Chordata | Teleostei | Conger cinereus                    | fish  | LC       | yes  | mustache conger                        |
| Chordata | Teleostei | Coris aygula                       | fish  | LC       |      | clown wrasse                           |
| Chordata | Teleostei | Coris caudimacula                  | fish  | LC       |      |  |
|          |           |                                    |       |          |      | spottail coris                         |
| Chordata | Teleostei | Coris dorsomacula                  | fish  | LC       | yes  | 6: 1: 11 -                             |
| Chordata | Teleostei | Crenimugil crenilabis              | fish  | LC       |      | fringelip mullet                       |
| Chordata | Teleostei | Crenimugil seheli                  | fish  | LC       | yes  |  |
| Chordata | Teleostei | Ctenochaetus binotatus             | fish  | LC       |      | twospot surgeonfish                    |
| Chordata | Teleostei | Ctenochaetus flavicauda            | fish  | LC       | yes  |  |
| Chordata | Teleostei | Ctenochaetus striatus              | fish  | LC       |      | lined bristletooth                     |
| Chordata | Teleostei | Ctenogobiops feroculus             | fish  | LC       | yes  |  |
| Chordata | Teleostei | Cyclothone pseudopallida           | fish  | LC       | yes  | slender bristlemouth, cyclothone mince |
| Chordata | Teleostei | Cymolutes praetextatus             | fish  | LC       |      |  |
| Chordata | Teleostei | Dascyllus trimaculatus             | fish  | LC       |      | domino                                 |
| Chordata | Teleostei | Dasyscopelus spinosus              | fish  |          | yes  |  |
| Chordata | Teleostei | Diagramma pictum                   | fish  |          | yes  | grunt                                  |
| Chordata | Teleostei | Diodon hystrix                     | fish  | LC       | yes  | spot-fin porcupinefish                 |
| Chordata | Teleostei | Diodon liturosus                   | fish  |          |      | black-blotched porcupinefish           |
| Chordata | Teleostei | Diplodus kotschyi                  | fish  |          | yes  |  |
| Chordata | Teleostei | Dysalotus alcocki                  | fish  | LC       | yes  |  |
| Chordata | Teleostei | Echeneis naucrates                 | fish  | LC       |      | sharksucker                            |
| Chordata | Teleostei | Echidna nebulosa                   | fish  | LC       |      | snowflake moray                        |
| Chordata | Teleostei | Echidna polyzona                   | fish  | LC       |      | barred moray                           |
| Chordata | Teleostei | Eleotris fusca                     | fish  | LC       | yes  | dusky sleeper                          |
| Chordata | Teleostei | Eleotris melanosoma                | fish  | LC       | yes  | 3 · · · · p                            |
| Chordata | Teleostei | Epinephelus coeruleopunctatus      | fish  | LC       | yes  |  |
| Chordata | Teleostei | Epinephelus corallicola            | fish  | LC       | yes  |  |
| Chordata | Teleostei | Epinephelus fasciatus              | fish  | LC       | , 00 | blacktip grouper, mérou oriflamme      |
| Chordata | Teleostei | Epinephelus hexagonatus            | fish  | LC       |      | starspotted grouper                    |
| Chordata | Teleostei | Epinephelus malabaricus            | fish  | LC       |      | Malabar grouper                        |
| Chordata | Teleostei | Epinephelus merra                  | fish  | LC       |      | honeycomb grouper                      |
| Chordata | Teleostei | Epinephelus spilotoceps            | fish  | LC       |      | foursaddle grouper                     |
| Chordata | Teleostei | Eviota prasina                     | fish  | LC       |      | green bubble goby                      |
| Chordata | Teleostei | Eviota prasma<br>Eviota punctulata | fish  | LC       | Vec  | finespot eviota                        |
| Chordata | Teleostei | Exocoetus volitans                 | fish  | LC       | yes  | flying fish, poisson volant            |
|          |           |                                    |       | LC       | yes  | nying rish, poisson voiant             |
| Chordata | Teleostei | Ferdauia orthogrammus              | fish  |          |      |  |
| Chordata | Teleostei | Fibramia amboinensis               | fish  |          | yes  |  |

| phylum   | class     | species   | group | category | new | vernacular                         |
|----------|-----------|---|-------|----------|-----|------------------------------------|
| Chordata | Teleostei | Fibramia lateralis                              | fish  |          |     |                                    |
| Chordata | Teleostei | Fistularia commersonii                          | fish  | LC       |     | cornetfish                         |
| Chordata | Teleostei | Foa brachygramma                                | fish  | LC       |     | weed cardinalfish                  |
| Chordata | Teleostei | Forcipiger flavissimus                          | fish  | LC       |     | forcepsfish                        |
| Chordata | Teleostei | Fowleria variegata                              | fish  | LC       |     | variegated cardinalfish            |
| Chordata | Teleostei | Gerres longirostris                             | fish  | LC       |     | _                                  |
| Chordata | Teleostei | Gerres oblongus                                 | fish  | LC       |     | slender silver-biddy               |
| Chordata | Teleostei | Gnathanodon speciosus                           | fish  | LC       |     | golden trevally                    |
| Chordata | Teleostei | Gnatholepis anjerensis                          | fish  | LC       |     |                                    |
| Chordata | Teleostei | Gnatholepis cauerensis                          | fish  | LC       |     | eyebar goby                        |
| Chordata | Teleostei | Gomphosus caeruleus                             | fish  | LC       |     | Red Sea bird wrasse                |
| Chordata | Teleostei | Grammistes sexlineatus                          | fish  | LC       |     | goldenstriped soapfish             |
| Chordata | Teleostei | Gunnellichthys monostigma                       | fish  | LC       |     |                                    |
| Chordata | Teleostei | Gymnothorax breedeni                            | fish  | LC       |     | blackcheek moray                   |
| Chordata | Teleostei | Gymnothorax buroensis                           | fish  | LC       |     | vagrant moray                      |
| Chordata | Teleostei | Gymnothorax chilospilus                         | fish  | LC       |     | lipspot moray                      |
| Chordata | Teleostei | Gymnothorax flavimarginatus                     | fish  | LC       |     | yellowmargin moray                 |
| Chordata | Teleostei | Gymnothorax margaritophorus                     | fish  | LC       |     | blotched-neck moray                |
| Chordata | Teleostei | Gymnothorax miliaris                            | fish  | LC       | ves | goldentail moray                   |
| Chordata | Teleostei | Gymnothorax pictus                              | fish  | LC       | ycs | goldentali mordy                   |
| Chordata | Teleostei | Gymnothorax pietus<br>Gymnothorax richardsonii  | fish  | LC       |     |                                    |
| Chordata | Teleostei | Gymnothorax rueppelliae                         | fish  | LC       |     | banded moray                       |
| Chordata | Teleostei | Gymnothorax undulatus                           | fish  | LC       |     | undulated moray                    |
| Chordata | Teleostei | Halichoeres hortulanus                          | fish  | LC       |     | checkerboard wrasse                |
| Chordata | Teleostei | Halichoeres nebulosus                           | fish  | LC       |     | nebulous wrasse                    |
| Chordata | Teleostei | Halichoeres scapularis                          | fish  | LC       |     | zigzag wrasse                      |
| Chordata | Teleostei | Halichoeres trimaculatus                        | fish  | LC       | yes | zigzag wrasse                      |
| Chordata | Teleostei | Hemiramphus far                                 | fish  | LC       | yes | spotted halfbeak                   |
| Chordata | Teleostei | Heniochus monoceros                             | fish  | LC       | yes | masked bannerfish                  |
| Chordata | Teleostei | Heteropriacanthus cruentatus                    | fish  | LC       |     | glasseye snapper                   |
| Chordata | Teleostei | Hipposcarus harid                               | fish  | LC       |     | longnose parrotfish                |
| Chordata | Teleostei | • •   | fish  | LC       |     | Barnes' silverside                 |
| Chordata | Teleostei | Hypoatherina barnesi<br>Hypoatherina temminckii | fish  |          |     | Samoan silverside                  |
| Chordata | Teleostei | 31  | fish  |          |     |                                    |
| Chordata | Teleostei | Hyporhamphus affinis                            | fish  | LC       |     | tropical halfbeak<br>snubnose chub |
|          |           | Kyphosus cinerascens                            |       |          |     |                                    |
| Chordata | Teleostei | Kyphosus elegans                                | fish  | LC       | yes | Cortez sea chub                    |
| Chordata | Teleostei | Kyphosus vaigiensis                             | fish  | LC       | yes | brassy chub                        |
| Chordata | Teleostei | Lactoria cornuta                                | fish  | 1.6      |     | longhorn cowfish                   |
| Chordata | Teleostei | Lepidozygus tapeinosoma                         | fish  | LC       |     | fusilier damselfish                |
| Chordata | Teleostei | Lethrinus atkinsoni                             | fish  | LC       | yes |                                    |
| Chordata | Teleostei | Lethrinus genivittatus                          | fish  | LC       | yes | longspine emperor                  |
| Chordata | Teleostei | Lethrinus harak                                 | fish  | LC       |     | blackspot emperor                  |
| Chordata | Teleostei | Lethrinus miniatus                              | fish  | LC       | yes | trumpet emperor                    |
| Chordata | Teleostei | Lethrinus nebulosus                             | fish  | LC       |     | spangled emperor                   |
| Chordata | Teleostei | Lethrinus obsoletus                             | fish  | LC       |     | orange-striped emperor             |
| Chordata | Teleostei | Lethrinus rubrioperculatus                      | fish  | LC       |     | spotcheek emperor                  |
| Chordata | Teleostei | Lethrinus xanthochilus                          | fish  | LC       |     | yellowlip emperor                  |
| Chordata | Teleostei | Lutjanus argentimaculatus                       | fish  | LC       |     | river snapper                      |
| Chordata | Teleostei | Lutjanus bohar                                  | fish  | LC       |     | twinspot snapper                   |
| Chordata | Teleostei | Lutjanus ehrenbergii                            | fish  | LC       |     | blackspot snapper                  |

| phylum   | class     | species                                    | group | category | new | vernacular                |
|----------|-----------|--|-------|----------|-----|---------------------------|
| Chordata | Teleostei | Lutjanus fulviflamma                       | fish  | LC       |     | dory snapper              |
| Chordata | Teleostei | Lutjanus fulvus                            | fish  | LC       |     | blacktail snapper         |
| Chordata | Teleostei | Lutjanus gibbus                            | fish  | LC       |     | humpback snapper          |
| Chordata | Teleostei | Lutjanus kasmira                           | fish  | LC       |     | common bluestripe snapper |
| Chordata | Teleostei | Lutjanus monostigma                        | fish  | LC       |     | one-spot snapper          |
| Chordata | Teleostei | Lutjanus quinquelineatus                   | fish  | LC       | yes |                           |
| Chordata | Teleostei | Lutjanus rivulatus                         | fish  | LC       | ,   | blubberlip snapper        |
| Chordata | Teleostei | Luzonichthys waitei                        | fish  | LC       |     | Waite's splitfin          |
| Chordata | Teleostei | Macolor niger                              | fish  | LC       |     | black and white snapper   |
| Chordata | Teleostei | Macropharyngodon bipartitus                | fish  | LC       |     | vermiculate wrasse        |
| Chordata | Teleostei | Melichthys indicus                         | fish  | LC       |     | Indian triggerfish        |
| Chordata | Teleostei | Melichthys niger                           | fish  | LC       |     | black durgon              |
| Chordata | Teleostei | Melichthys vidua                           | fish  | LC       | ves | pinktail triggerfish      |
| Chordata | Teleostei | Monodactylus argenteus                     | fish  | LC       | ,   | mono                      |
| Chordata | Teleostei | Monotaxis grandoculis                      | fish  | LC       |     | bigeye emperor            |
| Chordata | Teleostei | Mulloidichthys flavolineatus               | fish  | LC       |     | vellowstripe goatfish     |
| Chordata | Teleostei | Mulloidichthys vanicolensis                | fish  | LC       |     | yellowfin goatfish        |
| Chordata | Teleostei | Myrichthys colubrinus                      | fish  | LC       |     | harleguin snake-eel       |
| Chordata | Teleostei | Myrichthys maculosus                       | fish  | LC       |     | tiger snake-eel           |
| Chordata | Teleostei | Myripristis adusta                         | fish  | LC       |     | shadowfin soldierfish     |
| Chordata | Teleostei | Myripristis addsta<br>Myripristis berndti  | fish  | LC       |     | blotcheye soldierfish     |
| Chordata | Teleostei | Myripristis berndti<br>Myripristis kuntee  | fish  | LC       |     | pearly soldierfish        |
| Chordata | Teleostei | Myripristis kuntee<br>Myripristis pralinia | fish  | LC       | ves | scarlet soldierfish       |
| Chordata | Teleostei | Myripristis violacea                       | fish  | LC       | yes | Scarlet Soluleriisii      |
| Chordata | Teleostei | Naso brevirostris                          | fish  | LC       |     | anattad unicornfish       |
|          |           |  |       | LC       |     | spotted unicornfish       |
| Chordata | Teleostei | Naso elegans                               | fish  |          |     | alaalu uudaa uu fiala     |
| Chordata | Teleostei | Naso hexacanthus                           | fish  | LC       |     | sleek unicornfish         |
| Chordata | Teleostei | Naso thynnoides                            | fish  | LC       |     | oneknife unicornfish      |
| Chordata | Teleostei | Naso unicornis                             | fish  | LC       |     | bluespine unicornfish     |
| Chordata | Teleostei | Naso vlamingii                             | fish  | LC       |     | bignose unicornfish       |
| Chordata | Teleostei | Nemanthias carberryi                       | fish  | LC       |     | threadfin anthias         |
| Chordata | Teleostei | Neoniphon sammara                          | fish  | LC       |     | sammara squirrelfish      |
| Chordata | Teleostei | Novaculichthys taeniourus                  | fish  | LC       |     | rockmover wrasse          |
| Chordata | Teleostei | Novaculoides macrolepidotus                | fish  |          |     | seagrass wrasse           |
| Chordata | Teleostei | Odonus niger                               | fish  | LC       |     | red-toothed triggerfish   |
| Chordata | Teleostei | Ophiocara porocephala                      | fish  | LC       | yes | northern mud gudgeon      |
| Chordata | Teleostei | Oplopomus oplopomus                        | fish  | LC       | yes | spinecheek goby           |
| Chordata | Teleostei | Ostorhinchus apogonoides                   | fish  | LC       |     |                           |
| Chordata | Teleostei | Ostorhinchus fleurieu                      | fish  |          | yes |                           |
| Chordata | Teleostei | Oxycheilinus bimaculatus                   | fish  | LC       |     | twospot wrasse            |
| Chordata | Teleostei | Oxyporhamphus micropterus                  | fish  |          |     | smallwing flyingfish      |
| Chordata | Teleostei | Paracirrhites arcatus                      | fish  | LC       |     | arc-eye hawkfish          |
| Chordata | Teleostei | Paracirrhites forsteri                     | fish  | LC       |     | blackside hawkfish        |
| Chordata | Teleostei | Parioglossus raoi                          | fish  | LC       | yes |                           |
| Chordata | Teleostei | Parupeneus barberinus                      | fish  | LC       |     | dash-and-dot goatfish     |
| Chordata | Teleostei | Parupeneus cyclostomus                     | fish  | LC       |     | yellowsaddle goatfish     |
| Chordata | Teleostei | Parupeneus insularis                       | fish  | LC       | yes |                           |
| Chordata | Teleostei | Parupeneus macronemus                      | fish  | LC       |     |                           |
| Chordata | Teleostei | Parupeneus pleurostigma                    | fish  | LC       |     | sidespot goatfish         |
| Chordata | Teleostei | Parupeneus trifasciatus                    | fish  | LC       |     |                           |

| phylum   | class     | species   | group | category | new | vernacular                                |
|----------|-----------|---|-------|----------|-----|---|
| Chordata | Teleostei | Pempheris schwenkii                                 | fish  |          | yes |   |
| Chordata | Teleostei | Periophthalmus kalolo                               | fish  | LC       | yes | common mudskipper                         |
| Chordata | Teleostei | Pervagor janthinosoma                               | fish  | LC       | -   | blackbar filefish                         |
| Chordata | Teleostei | Petroscirtes mitratus                               | fish  | LC       |     | floral blenny                             |
| Chordata | Teleostei | Platax orbicularis                                  | fish  | LC       |     | circular spadefish                        |
| Chordata | Teleostei | Platybelone argalus                                 | fish  | LC       |     | keeltail needlefish                       |
| Chordata | Teleostei | Plectorhinchus albovittatus                         | fish  |          |     | two-stripe sweetlips                      |
| Chordata | Teleostei | Plectorhinchus gibbosus                             | fish  | LC       |     | Harry Hotlips                             |
| Chordata | Teleostei | Plectorhinchus plagiodesmus                         | fish  | LC       |     | barred rubberlip                          |
| Chordata | Teleostei | Plectorhinchus vittatus                             | fish  | LC       |     | 5411-54 1455-11P                          |
| Chordata | Teleostei | Plectroglyphidodon dickii                           | fish  | NT       |     | blackbar devil                            |
| Chordata | Teleostei | Plectroglyphidodon fasciolatus                      | fish  | LC       |     | SideNadi devii                            |
| Chordata | Teleostei | Plectroglyphidodon johnstonianus                    | fish  | LC       |     | Johnston Island damsel                    |
| Chordata | Teleostei | Plectroglyphidodon leucozonus                       | fish  | LC       |     | Johnston Island damser                    |
| Chordata | Teleostei | Polydactylus sexfilis                               | fish  | LC       | VOC | sixfinger threadfin, barbure à six doigts |
| Chordata | Teleostei | Pomacentrus agassizii                               | fish  |          | yes | Sixiniger timeaurin, barbure a six doigts |
|          |           | 3   |       | LC       | yes |   |
| Chordata | Teleostei | Pristiapogon kallopterus                            | fish  |          |     | mala Caraca and Carl Calc                 |
| Chordata | Teleostei | Pseudamia gelatinosa                                | fish  | LC       |     | gelatinous cardinalfish                   |
| Chordata | Teleostei | Pseudanthias squamipinnis                           | fish  | LC       |     | sea goldie                                |
| Chordata | Teleostei | Pseudechidna brummeri                               | fish  | LC       |     |   |
| Chordata | Teleostei | Pseudobalistes flavimarginatus                      | fish  | LC       |     | yellowmargin triggerfish                  |
| Chordata | Teleostei | Pseudocheilinus hexataenia                          | fish  | LC       |     | sixstripe wrasse                          |
| Chordata | Teleostei | Pseudogramma polyacantha                            | fish  | LC       |     | honeycomb podge                           |
| Chordata | Teleostei | Ptereleotris zebra                                  | fish  | LC       |     | Chinese zebra goby                        |
| Chordata | Teleostei | Pterocaesio marri                                   | fish  | LC       | yes | Marr's fusilier                           |
| Chordata | Teleostei | Pterocaesio tile                                    | fish  | LC       |     | dark-banded fusilier                      |
| Chordata | Teleostei | Pycnochromis dimidiatus                             | fish  |          |     |   |
| Chordata | Teleostei | Pycnochromis nigrurus                               | fish  | LC       |     |   |
| Chordata | Teleostei | Rhinecanthus aculeatus                              | fish  | LC       |     | white-banded triggerfish                  |
| Chordata | Teleostei | Rhinecanthus rectangulus                            | fish  | LC       |     | wedge-tail triggerfish                    |
| Chordata | Teleostei | Salarias fasciatus                                  | fish  | LC       |     | jewelled blenny                           |
| Chordata | Teleostei | Sargocentron caudimaculatum                         | fish  | LC       |     | silverspot squirrelfish                   |
| Chordata | Teleostei | Sargocentron punctatissimum                         | fish  | LC       |     | speckled squirrelfish                     |
| Chordata | Teleostei | Sargocentron spiniferum                             | fish  | LC       |     | sabre squirrelfish                        |
| Chordata | Teleostei | Sargocentron tiere                                  | fish  | LC       |     | bluelined squirrelfish                    |
| Chordata | Teleostei | Saurida nebulosa                                    | fish  | LC       |     | clouded lizardfish                        |
| Chordata | Teleostei | Scarus ferrugineus                                  | fish  | LC       |     | rusty parrotfish                          |
| Chordata | Teleostei | Scarus ghobban                                      | fish  | LC.      |     | bluechin parrotfish                       |
| Chordata | Teleostei | Scarus psittacus                                    | fish  | LC       |     | palenose parrotfish                       |
| Chordata | Teleostei | Scarus rubroviolaceus                               | fish  | LC       |     | ember parrotfish                          |
| Chordata | Teleostei | Scarus tricolor                                     | fish  | LC       |     | tricolour parrotfish                      |
| Chordata | Teleostei | Schismorhynchus labialis                            | fish  | LC       |     | three learner part extreme                |
| Chordata | Teleostei | Scolecenchelys gymnota                              | fish  |          |     |   |
| Chordata | Teleostei | Scomberoides lysan                                  | fish  | LC       |     | doublespotted queenfish                   |
| Chordata | Teleostei | Scorpaenopsis diabolus                              | fish  | LC       |     | devil scorpionfish                        |
| Chordata | Teleostei | Sebastapistes cyanostigma                           | fish  | LC       |     | devii seerpioriiisii                      |
| Chordata | Teleostei | Sebastapistes cyanostigina Sebastapistes mauritiana | fish  | LC       |     | spineblotch scorpionfish                  |
| Chordata | Teleostei | Sphaeramia orbicularis                              | fish  | LC       |     | orbiculate cardinalfish                   |
| Chordata | Teleostei | Sphyraena barracuda                                 | fish  | LC       |     | great barracuda                           |
| Chordata | Teleostei | Sphyraena helleri                                   | fish  | LC       | Vec | Heller's barracuda                        |
| Chordata | reieostei | opnyraena nenen                                     | 11511 |          | yes | FIEHEL 2 DALLACUUA                        |

| phylum   | class     | species                    | group      | category | new   | vernacular                 |
|----------|-----------|----------------------------|------------|----------|-------|----------------------------|
| Chordata | Teleostei | Sphyraena jello            | fish       |          | yes   | pickhandle barracuda       |
| Chordata | Teleostei | Spratelloides delicatulus  | fish       | LC       |       | delicate round herring     |
| Chordata | Teleostei | Stegastes lacrymatus       | fish       |          |       | · ·                        |
| Chordata | Teleostei | Stegastes nigricans        | fish       | LC       |       | black damselfish           |
| Chordata | Teleostei | Stethojulis albovittata    | fish       | LC       |       | bluelined wrasse           |
| Chordata | Teleostei | Stethojulis bandanensis    | fish       | LC       | yes   |                            |
| Chordata | Teleostei | Stethojulis strigiventer   | fish       | LC       | , , , | three-ribbon rainbowfish   |
| Chordata | Teleostei | Sufflamen chrysopterum     | fish       | LC       |       |                            |
| Chordata | Teleostei | Synanceia verrucosa        | fish       | LC       |       | stonefish                  |
| Chordata | Teleostei | Synodus dermatogenys       | fish       | ĹĊ       |       |                            |
| Chordata | Teleostei | Synodus variegatus         | fish       | LC       |       | common lizardfish          |
| Chordata | Teleostei | Thalassoma amblycephalum   | fish       | LC       |       | bluntheaded wrasse         |
| Chordata | Teleostei | Thalassoma hebraicum       | fish       | LC       |       | goldbar wrasse             |
| Chordata | Teleostei | Thalassoma lunare          | fish       | LC       |       | moon wrasse                |
| Chordata | Teleostei | Thalassoma purpureum       | fish       | LC       |       | surge wrasse               |
| Chordata | Teleostei | Thunnus alalunga           | fish       | LC       | ves   | albacore, thon blanc       |
| Chordata | Teleostei | Torquigener hypselogeneion | fish       | LC       | yes   | orange-spotted toadfish    |
| Chordata | Teleostei | Trachinotus baillonii      | fish       | LC       | yC3   | smallspotted dart          |
| Chordata | Teleostei | Trachinotus carolinus      | fish       | LC       | yes   | pompano                    |
| Chordata | Teleostei | Tylosurus acus             | fish       | LC       | ves   | agujon needlefish          |
| Chordata | Teleostei | Tylosurus crocodilus       | fish       | LC       | yes   | houndfish                  |
| Chordata | Teleostei | Upeneus taeniopterus       | fish       | LC       |       | fin-stripe goatfish        |
| Chordata | Teleostei | Uropterygius xanthopterus  | fish       | LC       |       | freckleface reef-eel       |
| Chordata | Teleostei | Valenciennea sexquttata    | fish       | LC       |       | sixspot goby               |
|          | Teleostei |                            |            | LC       |       |                            |
| Chordata |           | Valenciennea strigata      | fish       | LC       |       | blueband goby              |
| Chordata | Teleostei | Vanderhorstia ornatissima  | fish       |          |       | ornate prawn-goby          |
| Chordata | Teleostei | Variola louti              | fish       | LC       |       | lunartail grouper          |
| Chordata | Teleostei | Xanthichthys mento         | fish       | LC       | yes   | redtail triggerfish        |
| Chordata | Teleostei | Zanclus cornutus           | fish       | LC       |       | Moorish idol               |
| Chordata | Teleostei | Zebrasoma velifer          | fish       |          |       |                            |
| Chordata |           | Chelonia mydas             | turtles    | EN       |       | green turtle, tortue verte |
| Cnidaria | Anthozoa  | Andvakia discipulorum      | cnidarians |          | yes   |                            |
| Cnidaria | Anthozoa  | Boloceroides mcmurrichi    | cnidarians |          | yes   |                            |
| Cnidaria | Anthozoa  | Edwardsia longicornis      | cnidarians |          | yes   |                            |
| Cnidaria | Anthozoa  | Favites pentagona          | cnidarians | LC       |       | larger star coral          |
| Cnidaria | Anthozoa  | Leptastrea purpurea        | cnidarians | LC       |       | crust coral                |
| Cnidaria | Anthozoa  | Nanozoanthus harenaceus    | cnidarians |          | yes   |                            |
| Cnidaria | Anthozoa  | Pavona cactus              | cnidarians | VU       |       | leaf coral                 |
| Cnidaria | Anthozoa  | Pocillopora acuta          | cnidarians |          | yes   |                            |
| Cnidaria | Anthozoa  | Porites lutea              | cnidarians | LC       |       | hump coral                 |
| Cnidaria | Anthozoa  | Psammocora nierstraszi     | cnidarians | LC       |       |                            |
| Cnidaria | Anthozoa  | Sagartia lacerata          | cnidarians |          | yes   |                            |
| Cnidaria | Anthozoa  | Sinuorota hexagonalis      | cnidarians | LC       |       |                            |
| Cnidaria | Anthozoa  | Stylaraea punctata         | cnidarians | DD       |       |                            |
| Cnidaria | Anthozoa  | Triactis producta          | cnidarians |          | yes   | crab anemone               |
| Cnidaria | Hydrozoa  | Antennella secundaria      | cnidarians |          | yes   |                            |
| Cnidaria | Hydrozoa  | Cladonema multiramosum     | cnidarians |          | yes   |                            |
| Cnidaria | Hydrozoa  | Clytia gracilis            | cnidarians |          | yes   |                            |
| Cnidaria | Hydrozoa  | Diphyes bojani             | cnidarians |          | -     |                            |
| Cnidaria | Hydrozoa  | Diphyes dispar             | cnidarians |          | yes   |                            |

| phylum        | class             | species                                   | group       | category | new  | vernacular                               |
|---------------|-------------------|---|-------------|----------|------|--|
| Cnidaria      | Hydrozoa          | Euphysilla pyramidata                     | cnidarians  |          | yes  |  |
| Cnidaria      | Hydrozoa          | Kirchenpaueria halecioides                | cnidarians  |          | yes  |  |
| Cnidaria      | Hydrozoa          | Laodicea undulata                         | cnidarians  |          | yes  |  |
| Cnidaria      | Hydrozoa          | Lensia campanella                         | cnidarians  |          | yes  |  |
| Cnidaria      | Hydrozoa          | Nanomia bijuga                            | cnidarians  |          | yes  |  |
| Cnidaria      | Hydrozoa          | Obelia bidentata                          | cnidarians  |          | yes  | doubletoothed hydroid                    |
| Cnidaria      | Hydrozoa          | Physalia physalis                         | cnidarians  |          | yes  | Portuguese man-of-war, galère portugaise |
| Cnidaria      | Hydrozoa          | Solmundella bitentaculata                 | cnidarians  |          |      |  |
| Cnidaria      | Hydrozoa          | Sphaerocoryne bedoti                      | cnidarians  |          | yes  |  |
| Cnidaria      | Hydrozoa          | Sphaeronectes koellikeri                  | cnidarians  |          | yes  |  |
| Cnidaria      | Hydrozoa          | Zanclea divergens                         | cnidarians  |          | yes  |  |
| Cnidaria      | Hydrozoa          | Zancleopsis dichotoma                     | cnidarians  |          | yes  |  |
| Cnidaria      | Scyphozoa         | Pelagia panopyra                          | cnidarians  |          | yes  |  |
| Cryptophyta   | Cryptophyceae     | Hemiarma marina                           |             |          | yes  |  |
| Echinodermata | Asteroidea        | Aquilonastra anomala                      | echinoderms |          | yes  |  |
| Echinodermata | Echinoidea        | Echinostrephus molaris                    | echinoderms |          | yes  |  |
| Echinodermata | Echinoidea        | Echinothrix calamaris                     | echinoderms |          | ves  | banded sea urchin                        |
| Echinodermata | Echinoidea        | Eucidaris metularia                       | echinoderms |          | , 00 | Sandou Sou di Simi                       |
| Echinodermata | Echinoidea        | Koehleraster abnormalis                   | echinoderms |          | yes  |  |
| Echinodermata | Echinoidea        | Toxopneustes pileolus                     | echinoderms |          | yes  |  |
| Echinodermata | Echinoidea        | Tripneustes depressus                     | echinoderms |          | yes  |  |
| Echinodermata | Echinoidea        | Tripneustes gratilla                      | echinoderms |          | yes  | collector urchin                         |
| Echinodermata | Holothuroidea     | Actinopyga mauritiana                     | echinoderms | VU       | yes  | concetor drenin                          |
| Echinodermata | Holothuroidea     | Actinopyga madittalia<br>Actinopyga obesa | echinoderms | DD       | yes  |  |
| Echinodermata | Holothuroidea     | Bohadschia cousteaui                      | echinoderms | LC       | yes  |  |
| Echinodermata | Holothuroidea     | Bohadschia koellikeri                     | echinoderms | DD       | yes  |  |
| Echinodermata | Holothuroidea     | Bohadschia vitiensis                      | echinoderms | DD       |      |  |
| Echinodermata | Holothuroidea     |   | echinoderms | טט       | yes  |  |
| Echinodermata | Holothuroidea     | Holothuria (Lessonothuria) pardalis       | echinoderms |          | yes  |  |
| Echinodermata | Holothuroidea     | Holothuria (Stauropora) pervicax          | echinoderms |          | yes  |  |
|               |                   | Holothuria (Thymiosycia) arenicola        | echinoderms | 1.0      | yes  |  |
| Echinodermata | Holothuroidea     | Holothuria atra                           |             | LC<br>LC | yes  |  |
| Echinodermata | Holothuroidea     | Stichopus chloronotus                     | echinoderms | LC       |      | described to the second                  |
| Echinodermata | Ophiuroidea       | Amphipholis squamata                      | echinoderms |          |      | dwarf brittle star                       |
| Echinodermata | Ophiuroidea       | Amphiura (Amphiura) velox                 | echinoderms |          | yes  |  |
| Echinodermata | Ophiuroidea       | Breviturma brevipes                       | echinoderms |          |      |  |
| Echinodermata | Ophiuroidea       | Breviturma doederleini                    | echinoderms |          | yes  |  |
| Echinodermata | Ophiuroidea       | Macrophiothrix longipeda                  | echinoderms |          | yes  |  |
| Echinodermata | Ophiuroidea       | Ophiactis picteti                         | echinoderms |          | yes  |  |
| Echinodermata | Ophiuroidea       | Ophiactis savignyi                        | echinoderms |          |      |  |
| Echinodermata | Ophiuroidea       | Ophiocoma erinaceus                       | echinoderms |          |      |  |
| Echinodermata | Ophiuroidea       | Ophiocoma scolopendrina                   | echinoderms |          |      |  |
| Echinodermata | Ophiuroidea       | Ophiocomella valenciae                    | echinoderms |          | yes  |  |
| Echinodermata | Ophiuroidea       | Ophionereis porrecta                      | echinoderms |          | yes  |  |
| Gastrotricha  |                   | Urodasys calicostylis                     |             |          | yes  |  |
| Haptophyta    | Coccolithophyceae | Chrysochromulina tobinii                  | algae       |          | yes  |  |
| Haptophyta    | Coccolithophyceae | Emiliania huxleyi                         | algae       |          | yes  |  |
| Haptophyta    | Coccolithophyceae | Phaeocystis globosa                       | algae       |          | yes  |  |
| Haptophyta    | Coccolithophyceae | Phaeocystis pouchetii                     | algae       |          | yes  |  |
| Hemichordata  | Enteropneusta     | Ptychodera flava                          | =           |          | yes  | Hawaiian acorn worm                      |
| Mollusca      | Bivalvia          | Brachidontes variabilis                   | molluscs    |          | ves  | variable mussel                          |

| phylum   | class       | species                       | group    | category | new        | vernacular              |
|----------|-------------|-------------------------------|----------|----------|------------|-------------------------|
| Mollusca | Bivalvia    | Dendostrea sandvichensis      | molluscs |          | yes        |                         |
| Mollusca | Bivalvia    | Leiosolenus hanleyanus        | molluscs |          | yes        |                         |
| Mollusca | Bivalvia    | Pinctada persica              | molluscs |          | yes        |                         |
| Mollusca | Bivalvia    | Tridacna squamosa             | molluscs | LR/cd    | yes        | giant clam              |
| Mollusca | Cephalopoda | Callistoctopus aspilosomatis  | molluscs | LC       | yes        |                         |
| Mollusca | Cephalopoda | Octopus cyanea                | molluscs | LC       |            | Cyane's octopus         |
| Mollusca | Gastropoda  | Aliculastrum parallelum       | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Apataxia cerithiiformis       | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Atys semistriatus             | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Berthellina delicata          | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Bulla vernicosa               | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Canarium mutabile             | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Carminodoris grandiflora      | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Cerithium egenum              | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Cerithium nesioticum          | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Cerithium rostratum           | molluscs |          | ,          |                         |
| Mollusca | Gastropoda  | Chelidonura hirundinina       | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Cyerce elegans                | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Dendropoma platypus           | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Dolabella auricularia         | molluscs |          | yes        | wedge sea hare          |
| Mollusca | Gastropoda  | Dolabrifera dolabrifera       | molluscs |          | yes        | wedge sea hare          |
| Mollusca | Gastropoda  | Dolabrifera edmundsi          | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Doriopsis pecten              | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Elysia obtusa                 | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Elysia ornata                 | molluscs |          | yes        | lettuce slug            |
| Mollusca | Gastropoda  | Elysia pusilla                | molluscs |          | yes        | lettuce slug            |
| Mollusca | Gastropoda  | Ercolania annelyleorum        | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Favorinus japonicus           | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Gutturnium muricinum          | molluscs |          |            |                         |
| Mollusca | Gastropoda  | Halgerda indotessellata       | molluscs |          | yes<br>yes |                         |
| Mollusca | Gastropoda  | Haloa pemphis                 | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Heliconoides inflatus         | molluscs |          |            |                         |
| Mollusca | Gastropoda  | Hexabranchus sanguineus       | molluscs |          | yes<br>yes | Spanish dancer          |
| Mollusca | Gastropoda  | Hyalopatina planata           | molluscs |          |            | Spanish dancer          |
| Mollusca | Gastropoda  | Littoraria subvittata         | molluscs |          | yes        |                         |
|          | •           |                               | molluscs |          | 1,000      |                         |
| Mollusca | Gastropoda  | Lophocochlias parvissimus     |          |          | yes        |                         |
| Mollusca | Gastropoda  | Monoplex mundus               | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Naria helvola                 | molluscs |          |            |                         |
| Mollusca | Gastropoda  | Oxynoe viridis                | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Phanerophthalmus lentigines   | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Phanerophthalmus minikoiensis | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Phanerophthalmus paulayi      | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Philinopsis speciosa          | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Phyllidia coelestis           | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Placida kevinleei             | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Pleurobranchus forskalii      | molluscs |          |            | Forskal's sidegill slug |
| Mollusca | Gastropoda  | Pleurobranchus peronii        | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Pleurobranchus varians        | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Polybranchia jensenae         | molluscs |          | yes        |                         |
| Mollusca | Gastropoda  | Pterotrachea hippocampus      | molluscs |          | yes        |                         |

| phylum          | class            | species                                | group       | category | new        | vernacular                  |
|-----------------|------------------|--|-------------|----------|------------|-----------------------------|
| Mollusca        | Gastropoda       | Rissoina ambigua                       | molluscs    |          | yes        |                             |
| Mollusca        | Gastropoda       | Samla bicolor                          | molluscs    |          | yes        |                             |
| Mollusca        | Gastropoda       | Stylocheilus striatus                  | molluscs    |          | yes        |                             |
| Myzozoa         | Dinophyceae      | Amphidinium massartii                  | unicellular |          | yes        |                             |
| Myzozoa         | Dinophyceae      | Crypthecodinium cohnii                 | unicellular |          | yes        |                             |
| Ochrophyta      | Dictyochophyceae | Octactis octonaria                     | algae       |          | yes        |                             |
| Ochrophyta      | Dictyochophyceae | Vicicitus globosus                     | algae       |          | yes        |                             |
| Ochrophyta      | Pelagophyceae    | Pelagomonas calceolata                 | algae       |          | yes        |                             |
| Ochrophyta      | Phaeophyceae     | Canistrocarpus cervicornis             | algae       |          | yes        |                             |
| Ochrophyta      | Phaeophyceae     | Dictyota bartayresiana                 | algae       |          | yes        |                             |
| Ochrophyta      | Phaeophyceae     | Dictyota ceylanica                     | algae       |          | yes        |                             |
| Ochrophyta      | Phaeophyceae     | Dictyota friabilis                     | algae       |          | yes        |                             |
| Ochrophyta      | Phaeophyceae     | Hydroclathrus tenuis                   | algae       |          | yes        |                             |
| Ochrophyta      | Phaeophyceae     | Lobophora obscura                      | algae       |          | yes        |                             |
| Ochrophyta      | Phaeophyceae     | Padina boergesenii                     | algae       |          | yes        |                             |
| Ochrophyta      | Phaeophyceae     | Turbinaria conoides                    | algae       |          | ,          |                             |
| Ochrophyta      | Pinguiophyceae   | Pinguiococcus pyrenoidosus             | algae       |          | yes        |                             |
| Ochrophyta      | Raphidophyceae   | Haramonas dimorpha                     | algae       |          | yes        |                             |
| Platyhelminthes | apaopy coac      | Prosthiostomum torquatum               | aigas       |          | yes        |                             |
| Porifera        | Demospongiae     | Acanthotetilla celebensis              | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Axechina raspailioides                 | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Biemna ehrenbergi                      | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Callyspongia (Cladochalina) plicifera  | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Chalinula molitba                      | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Chelonaplysilla erecta                 | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Cladocroce burapha                     | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Clathria (Clathria) unica              | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Clathria (Wilsonella) rugosa           | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Cliona dissimilis                      | sponges     |          | -          |                             |
| Porifera        | Demospongiae     | Cliona mariae                          | sponges     |          | yes<br>yes | Maria Santana's Cliona      |
| Porifera        | Demospongiae     | Cliona yorkin                          |             |          | -          | Yorkin Cliona               |
| Porifera        | Demospongiae     | Cliothosa aurivillii                   | sponges     |          | yes        | TOTKIII CIIOIIa             |
| Porifera        | Demospongiae     | Cliothosa delitrix                     | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Dysidea arenaria                       | sponges     |          | yes        | grater change               |
| Porifera        | . 3              | •                                      | sponges     |          | yes        | crater sponge               |
| Porifera        | Demospongiae     | Ectyoplasia ferox                      | sponges     |          | yes        |                             |
|                 | Demospongiae     | Fasciospongia cavernosa                | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Galaxia gaviotensis                    | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Gelliodes wilsoni                      | sponges     |          | yes        | D 1 17 1 17 1 17            |
| Porifera        | Demospongiae     | Halichondria (Halichondria) bowerbanki | sponges     |          | yes        | Bowerbank's halichondria    |
| Porifera        | Demospongiae     | Halichondria (Halichondria) okadai     | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Haliclona (Halichoclona) vansoesti     | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Haliclona pigmentifera                 | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Hymeniacidon chloris                   | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Hymeniacidon flavia                    | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Mycale (Carmia) cecilia                | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Pachychalina tenera                    | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Paracornulum dubium                    | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Phorbas bihamiger                      | sponges     |          | yes        |                             |
| Porifera        | Demospongiae     | Pione vastifica                        | sponges     |          | yes        | boring sponge, clione rouge |
| Porifera        | Demospongiae     | Pione velans                           | sponges     |          | yes        |                             |

| phylum     | class            | species                         | group   | category | new | vernacular |
|------------|------------------|---------------------------------|---------|----------|-----|------------|
| Porifera   | Demospongiae     | Rhabderemia sorokinae           | sponges |          | yes |            |
| Porifera   | Demospongiae     | Sigmaxinella hipposiderus       | sponges |          | yes |            |
| Porifera   | Demospongiae     | Spirastrella hartmani           | sponges |          | yes |            |
| Porifera   | Demospongiae     | Stelletta mediterranea          | sponges |          | yes |            |
| Porifera   | Demospongiae     | Stryphnus mucronatus            | sponges |          | yes |            |
| Porifera   | Demospongiae     | Tedania (Tedania) tubulifera    | sponges |          | yes |            |
| Porifera   | Demospongiae     | Terpios gelatinosus             | sponges |          | yes |            |
| Porifera   | Demospongiae     | Terpios hoshinota               | sponges |          | yes |            |
| Porifera   | Demospongiae     | Theonella swinhoei              | sponges |          | yes |            |
| Porifera   | Homoscleromorpha | Plakortis deweerdtaephila       | sponges |          | yes |            |
| Rhodophyta | Florideophyceae  | Acanthophora spicifera          | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Aphanta ligulata                | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Asparagopsis taxiformis         | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Asteromenia pseudocoalescens    | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Calliblepharis jubata           | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Coelothrix irregularis          | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Galaxaura filamentosa           | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Ganonema pinnatiramosa          | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Gelidiella fanii                | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Gracilaria babae                | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Harveylithon munitum            | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Herposiphonia pecten-veneris    | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Hypnea nigrescens               | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Hypnea spinella                 | algae   |          |     |            |
| Rhodophyta | Florideophyceae  | Jania adhaerens                 | algae   |          |     |            |
| Rhodophyta | Florideophyceae  | Kapraunia schneideri            | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Laurencia dendroidea            | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Liagora ceranoides              | algae   |          |     |            |
| Rhodophyta | Florideophyceae  | Meredithia compaginata          | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Neogoniolithon brassica-florida | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Neogoniolithon rhizophorae      | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Neogoniolithon trichotomum      | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Palisada parvipapillata         | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Pterocladiella caerulescens     | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Ramicrusta lateralis            | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Rhodachlya madagascarensis      | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Sarconema filiforme             | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Spyridia filamentosa            | algae   |          | yes |            |
| Rhodophyta | Florideophyceae  | Wilsonosiphonia fujiae          | algae   |          | yes |            |
|            |                  | Amastigomonas debruynei         |         |          | yes |            |