

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

## Biodiversity survey for Aldabra Atoll

Interim Results  
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  $\mu\text{m}$  pore size. After sampling, the filter cartridges were flushed with preservation liquid and shipped to UNESCO. DNA from the samples was extracted and amplified, and subsequently sent to the sequencing facility at KU Leuven in Belgium, a specialized university eDNA lab contracted by UNESCO for this work. PCR amplification was done using five primer pairs selected to capture as much biodiversity as possible in the target groups of the study: fish, mammals, and turtles.

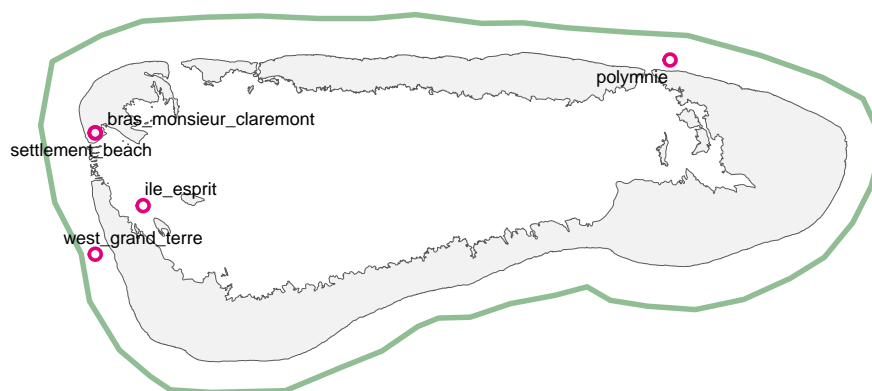


Figure 1: Map of the sampling locations.

### DNA sequencing

Sequencing of the DNA from 20 samples resulted in over 38 million sequence reads, from which we collected 46,489 unique sequences or ASVs (Tables 1 and 2).

reads	asvs
38840635	46489

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 787 species, including 372 fish species, 5 mammalian species, and 5 turtle species (Table 3). Species from other groups, such as molluscs, algae, crustaceans, sponges, and echinoderms, were also detected (Figures 2 and 3). This number of species detected represents about 42% of the 1,618 species known from Aldabra Atoll in the OBIS database. Of the 787 species detected, 451 are not among the species previously reported from Aldabra Atoll to the UNESCO OBIS database. 19 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.

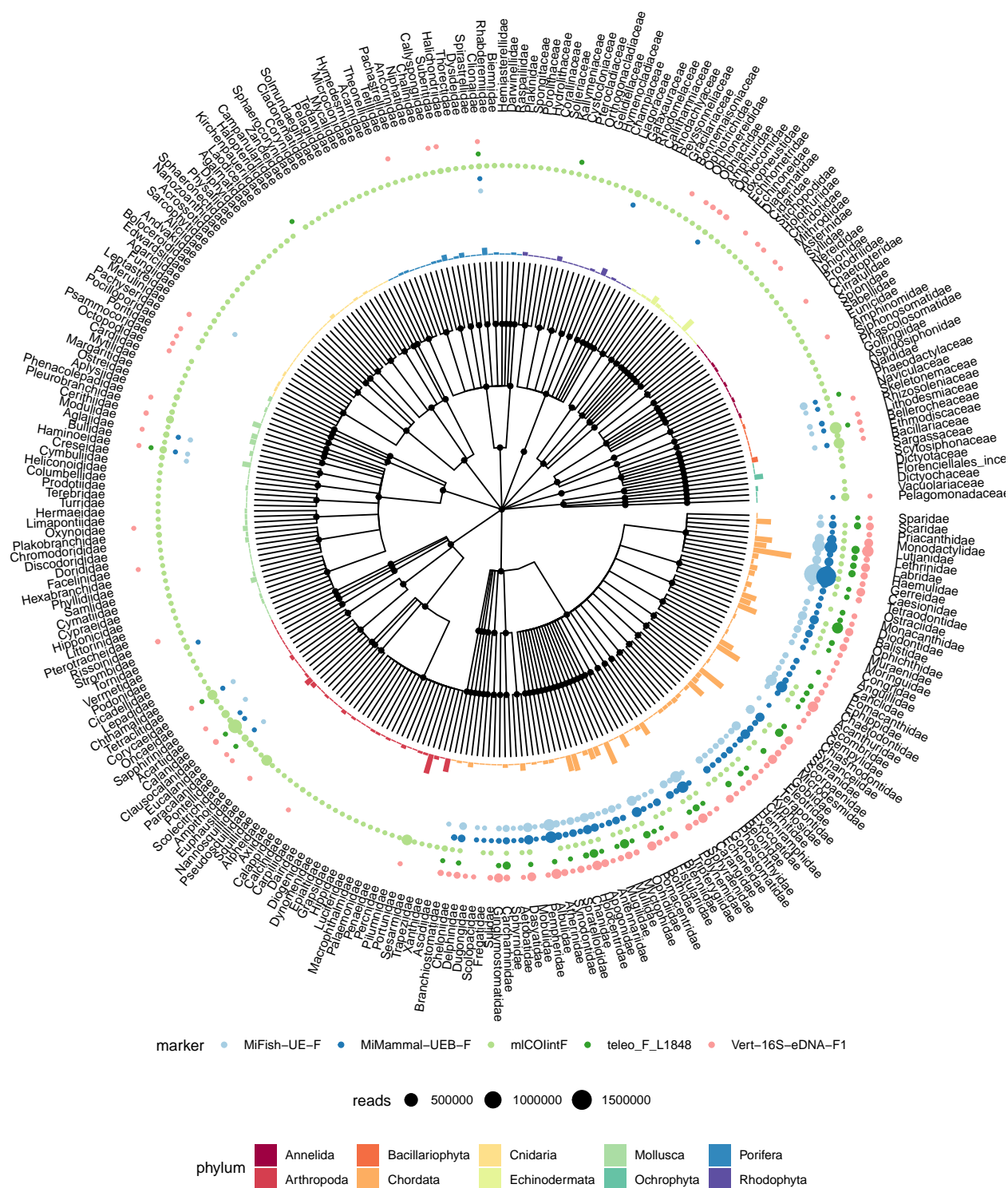


Figure 2: Number of DNA reads (bubbles) and species detected (bars) by family.

locality	materialSampleID	sampleSize	reads	asvs	species
Bras Monsieur Claremont	EE0475	1500	1536911	8743	199
Bras Monsieur Claremont	EE0480	1560	2318711	8796	218
Bras Monsieur Claremont	EE0497	1399	2235175	6979	228
Bras Monsieur Claremont	EE0498	1500	2203743	10738	296
Ile esprit	EE0472	1800	2398657	11901	254
Ile esprit	EE0479	1800	1660528	7143	197
Ile esprit	EE0492	1500	12746	177	12
Ile esprit	EE0493	1450	2254180	11449	281
Polymnie	EE0487	1500	1272506	6747	206
Polymnie	EE0489	20	1326312	4327	82
Polymnie	EE0499	1115	1544939	3498	34
Polymnie	EE0501	1140	1154551	7455	232
Settlement beach	EE0473	1313	3038109	12103	301
Settlement beach	EE0474	1500	3033773	10723	306
Settlement beach	EE0488	1500	2824796	13373	306
Settlement beach	EE0495	1500	2799265	11909	286
West Grand terre	EE0490	1500	1363549	6610	190
West Grand terre	EE0491	1500	2513508	10853	222
West Grand terre	EE0494	881	1072546	7349	182
West Grand terre	EE0496	1255	2276130	10585	236

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

group	eDNA species	total species	fraction
fish	372	889	0.42
mammals	5	6	0.83
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	11	85	0.13

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

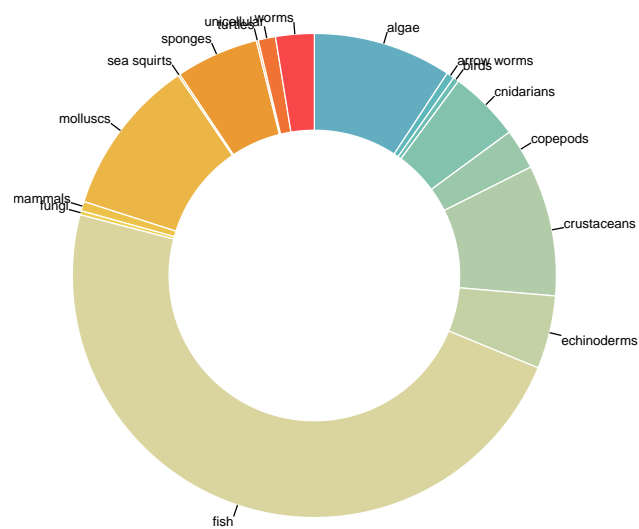


Figure 3: Distribution of detected species across groups.



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	Eurythoe complanata	worms		yes	fireworm
Annelida	Polychaeta	Iphione henshawi	worms		yes	
Annelida	Polychaeta	Leonnates decipiens	worms		yes	
Annelida	Polychaeta	Malacoceros indicus	worms		yes	
Annelida	Polychaeta	Marphysa mossambica	worms		yes	
Annelida	Polychaeta	Phyllochaetopterus verrilli	worms		yes	
Annelida	Polychaeta	Syllis picta	worms		yes	
Annelida	Polychaeta	Timarete ceciliae	worms		yes	
Annelida		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	Copilia mirabilis	copepods			
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	Paracalanus denudatus	copepods		yes	
Arthropoda	Copepoda	Paracalanus indicus	copepods		yes	
Arthropoda	Copepoda	Pareucalanus attenuatus	copepods			
Arthropoda	Copepoda	Pontella fera	copepods		yes	
Arthropoda	Copepoda	Pontellina plumata	copepods			
Arthropoda	Copepoda	Sapphirina stellata	copepods		yes	
Arthropoda	Copepoda	Scolecithrix danae	copepods			
Arthropoda	Copepoda	Subeucalanus subtenuis	copepods		yes	
Arthropoda	Copepoda	Undinula vulgaris	copepods			
Arthropoda	Hexapoda	Macrosteles quadrilineatus			yes	
Arthropoda	Malacostraca	Alima pacifica	crustaceans		yes	
Arthropoda	Malacostraca	Alpheus dolerus	crustaceans		yes	
Arthropoda	Malacostraca	Alpheus lobidens	crustaceans			brownbar snapping shrimp
Arthropoda	Malacostraca	Alpheus pacificus	crustaceans		yes	
Arthropoda	Malacostraca	Axiopsis serratifrons	crustaceans		yes	serrated axiid

Continued on next page

phylum	class	species	group	category	new	vernacular
Arthropoda	Malacostraca	Calappa exanthematos	crustaceans		yes	
Arthropoda	Malacostraca	Calappa hepatica	crustaceans			smooth box crab
Arthropoda	Malacostraca	Calcinus latens	crustaceans		yes	hidden hermit
Arthropoda	Malacostraca	Carpilius convexus	crustaceans			convex reef crab
Arthropoda	Malacostraca	Chaenostoma bosci	crustaceans		yes	
Arthropoda	Malacostraca	Chaenostoma sinuspersici	crustaceans		yes	
Arthropoda	Malacostraca	Chlorodiella laevis	crustaceans		yes	
Arthropoda	Malacostraca	Cycloachelous granulatus	crustaceans		yes	
Arthropoda	Malacostraca	Cyclodius obscurus	crustaceans		yes	
Arthropoda	Malacostraca	Cymadusa filosa	crustaceans		yes	
Arthropoda	Malacostraca	Daira perlata	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	
Arthropoda	Malacostraca	Euphausia diomedea	crustaceans		yes	
Arthropoda	Malacostraca	Euphausia tenera	crustaceans		yes	
Arthropoda	Malacostraca	Gaillardiiella rueppelli	crustaceans		yes	
Arthropoda	Malacostraca	Gonioinfradens paucidentatus	crustaceans			
Arthropoda	Malacostraca	Hippa adactyla	crustaceans		yes	
Arthropoda	Malacostraca	Hirsutodynomene spinosa	crustaceans		yes	
Arthropoda	Malacostraca	Kraussia rugulosa	crustaceans		yes	
Arthropoda	Malacostraca	Leptarma leptosoma	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	Metapenaeopsis evermanni	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	
Arthropoda	Malacostraca	Pilumnus vespertilio	crustaceans		yes	
Arthropoda	Malacostraca	Pseudoliomera variolosa	crustaceans		yes	
Arthropoda	Malacostraca	Pseudosquilla ciliata	crustaceans		yes	
Arthropoda	Malacostraca	Pullosquilla litoralis	crustaceans		yes	
Arthropoda	Malacostraca	Sarmatium crassum	crustaceans		yes	
Arthropoda	Malacostraca	Thalamita admete	crustaceans		yes	
Arthropoda	Malacostraca	Thalamita bouvieri	crustaceans		yes	
Arthropoda	Malacostraca	Thalamita chaptalii	crustaceans		yes	
Arthropoda	Malacostraca	Thalamita coeruleipes	crustaceans		yes	
Arthropoda	Malacostraca	Thalamita cooperi	crustaceans		yes	
Arthropoda	Malacostraca	Thalamita crenata	crustaceans			crenate swimming crab
Arthropoda	Malacostraca	Thalamita gatavakensis	crustaceans		yes	

Continued on next page



phylum	class	species	group	category	new	vernacular
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 guinotae	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 obliteratus	crustaceans		yes	
Arthropoda	Thecostraca	Tetracitella divisa	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	Pseudo-nitzschia abrensis	algae		yes	
Bacillariophyta	Bacillariophyceae	Pseudo-nitzschia caciantha	algae		yes	
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	
Chaetognatha	Sagittoidea	Pterosagitta draco	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 laurae	algae		yes	
Chlorophyta		Chloropicon mariensis	algae		yes	
Chlorophyta		Chloropicon primus	algae		yes	
Chlorophyta		Chloropicon roscoffensis	algae		yes	
Chlorophyta		Chloropicon sieburthii	algae		yes	
Chordata	Ascidacea	Ascidia ahodori	sea squirts		yes	
Chordata	Aves	Arenaria interpres	birds	LC		ruddy turnstone, tournepierre à collier
Chordata	Aves	Fregata minor	birds	LC		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

Continued on next page

phylum	class	species	group	category	new	vernacular
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 meyeri	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 coeruleoalba	mammals	LC	yes	striped dolphin, dauphin bleu et blanc
Chordata	Mammalia	Stenella longirostris	mammals	LC	yes	long-snouted spinner dolphin, dauphin longirostre
Chordata	Mammalia	Tursiops aduncus	mammals	NT	yes	Indo-Pacific bottlenose dolphin, tursiops abusalam
Chordata	Mammalia	Tursiops truncatus	mammals	LC	yes	bottlenose dolphin, grand dauphin
Chordata	Teleostei	Abantennarius dorehensis	fish	LC		
Chordata	Teleostei	Abudefduf septemfasciatus	fish	LC		banded sergeant
Chordata	Teleostei	Abudefduf sexfasciatus	fish	LC		scissortail sergeant
Chordata	Teleostei	Abudefduf vaiensis	fish	LC		Indo-Pacific sergeant
Chordata	Teleostei	Acanthurus blochii	fish	LC		ringtail surgeonfish
Chordata	Teleostei	Acanthurus dussumieri	fish	LC		eyestripe 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
Chordata	Teleostei	Acanthurus nigrofusus	fish	LC		brown surgeonfish
Chordata	Teleostei	Acanthurus tennentii	fish	LC		
Chordata	Teleostei	Acanthurus thompsoni	fish	LC		Thompson's surgeonfish
Chordata	Teleostei	Acanthurus triostegus	fish	LC		convict surgeonfish
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	Aluterus scriptus	fish	LC		scrawled filefish
Chordata	Teleostei	Amanses scopas	fish	LC		broom filefish
Chordata	Teleostei	Amblycirrhitis bimacula	fish	LC		
Chordata	Teleostei	Amblygobius phalaena	fish	LC		
Chordata	Teleostei	Anampses caeruleopunctatus	fish	LC		bluespotted wrasse
Chordata	Teleostei	Anarchias seychellensis	fish	LC		Seychelles moray
Chordata	Teleostei	Anguilla marmorata	fish	LC	yes	giant mottled eel
Chordata	Teleostei	Aphareus furca	fish	LC		small toothed jobfish
Chordata	Teleostei	Apogon campbelli	fish		yes	
Chordata	Teleostei	Apogon semionotus	fish	LC		obliquebanded cardinalfish
Chordata	Teleostei	Apogonichthys perdix	fish		yes	perdix cardinalfish
Chordata	Teleostei	Aporops bilinearis	fish	LC		
Chordata	Teleostei	Aprion virescens	fish	LC		green jobfish
Chordata	Teleostei	Ariosoma scheelei	fish	LC		tropical conger
Chordata	Teleostei	Arothron hispidus	fish	LC		bristly puffer

Continued on next page

phylum	class	species	group	category	new	vernacular
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	Benthoosema fibulatum	fish	LC	yes	spinycheek lanternfish
Chordata	Teleostei	Blenniella chrysospilos	fish	LC		
Chordata	Teleostei	Blenniella periophthalmus	fish	LC		blue-dashed rockskipper
Chordata	Teleostei	Bodianus diana	fish	LC		Diana's hogfish
Chordata	Teleostei	Bolinichthys longipes	fish	LC	yes	
Chordata	Teleostei	Bothus pantherinus	fish	LC		panther flounder
Chordata	Teleostei	Brotula multibarbata	fish	LC		goatsbeard brotula
Chordata	Teleostei	Cabillus tongarevae	fish	LC		
Chordata	Teleostei	Caesio caerulea	fish	LC		blue and gold fusilier
Chordata	Teleostei	Caesio lunaris	fish	LC		lunar fusilier
Chordata	Teleostei	Caesio teres	fish	LC		yellow and blueback fusilier
Chordata	Teleostei	Caesio xanthonota	fish	LC		yellowback fusilier
Chordata	Teleostei	Callechelys catostoma	fish	LC		
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	Cantherhines pardalis	fish	LC		wier-net filefish
Chordata	Teleostei	Canthigaster bennetti	fish	LC		Bennett's sharpnose puffer
Chordata	Teleostei	Caracanthus maculatus	fish	LC	yes	spotted coral croucher
Chordata	Teleostei	Carangoides ferdau	fish	LC		blue trevally
Chordata	Teleostei	Caranx ignobilis	fish	LC		giant trevally
Chordata	Teleostei	Caranx melampygus	fish	LC		bluefin trevally
Chordata	Teleostei	Caranx papuensis	fish	LC		brassy 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
Chordata	Teleostei	Cephalopholis sexmaculata	fish	LC		sixspot grouper
Chordata	Teleostei	Cephalopholis sonnerati	fish	LC		tomato hind
Chordata	Teleostei	Cephalopholis urodeta	fish	LC		darkfin hind
Chordata	Teleostei	Cetoscarus bicolor	fish	LC		bicolour parrotfish
Chordata	Teleostei	Chaetodon auriga	fish	LC		threadfin butterflyfish
Chordata	Teleostei	Chaetodon guttatissimus	fish	LC		peppered butterflyfish
Chordata	Teleostei	Chaetodon kleinii	fish	LC		sunburst butterflyfish
Chordata	Teleostei	Chaetodon lunula	fish	LC		raccoon butterflyfish
Chordata	Teleostei	Chaetodon lunulatus	fish	LC	yes	
Chordata	Teleostei	Chaetodon melanotus	fish	LC		blackback butterflyfish
Chordata	Teleostei	Chaetodon meyeri	fish	LC		scrawled butterflyfish
Chordata	Teleostei	Chaetodon trifasciatus	fish	LC		melon butterflyfish
Chordata	Teleostei	Chaetodon vagabundus	fish	LC		vagabond butterflyfish
Chordata	Teleostei	Chanos chanos	fish	LC		milkfish, chano
Chordata	Teleostei	Cheilinus trilobatus	fish	LC		tripletail wrasse

Continued on next page

phylum	class	species	group	category	new	vernacular
Chordata	Teleostei	Cheilinus undulatus	fish	EN		humphead wrasse
Chordata	Teleostei	Cheilopogon cyanopterus	fish	LC	yes	marginated flyingfish
Chordata	Teleostei	Cheilopogon spilonotopterus	fish		yes	stained flyingfish
Chordata	Teleostei	Chlorurus gibbus	fish	LC		
Chordata	Teleostei	Chlorurus sordidus	fish	LC		
Chordata	Teleostei	Chromis viridis	fish	LC		blue-green damselfish
Chordata	Teleostei	Chromis xanthochira	fish	LC	yes	
Chordata	Teleostei	Chrysiptera biocellata	fish	LC		twinspot damselfish
Chordata	Teleostei	Chrysiptera brownriggii	fish	LC		
Chordata	Teleostei	Chrysiptera glauca	fish	LC		grey demoiselle
Chordata	Teleostei	Chrysiptera unimaculata	fish	LC		onespot damselfish
Chordata	Teleostei	Cirrhilabrus exquisitus	fish	DD		exquisite wrasse
Chordata	Teleostei	Cirrhitichthys oxycephalus	fish	LC		pixy 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		mustache conger
Chordata	Teleostei	Coris aygula	fish	LC		clown wrasse
Chordata	Teleostei	Coris caudimacula	fish	LC		spottail coris
Chordata	Teleostei	Coris cuvieri	fish	LC		
Chordata	Teleostei	Coris dorsomacula	fish	LC	yes	
Chordata	Teleostei	Coris gaimard	fish	LC	yes	
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	Diaphus lucidus	fish	LC	yes	
Chordata	Teleostei	Diaphus problematicus	fish	LC	yes	
Chordata	Teleostei	Diaphus splendidus	fish	LC	yes	
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	Elagatis bipinnulata	fish	LC		rainbow runner
Chordata	Teleostei	Eleotris fusca	fish	LC	yes	dusky sleeper
Chordata	Teleostei	Eleotris melanosoma	fish	LC	yes	
Chordata	Teleostei	Enneapterygius tutuilae	fish	LC		
Chordata	Teleostei	Epinephelus coeruleopunctatus	fish	LC	yes	
Chordata	Teleostei	Epinephelus corallicola	fish	LC	yes	

Continued on next page

phylum	class	species	group	category	new	vernacular
Chordata	Teleostei	Epinephelus fasciatus	fish	LC		blacktip grouper, m��rou 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 multinotatus	fish	LC		white-blotched grouper
Chordata	Teleostei	Epinephelus polyphemadion	fish	VU		camouflage grouper
Chordata	Teleostei	Epinephelus spilotoceps	fish	LC		foursaddle grouper
Chordata	Teleostei	Epinephelus tauvina	fish	DD		greasy grouper
Chordata	Teleostei	Eviota prasina	fish	LC		green bubble goby
Chordata	Teleostei	Eviota punctulata	fish	LC	yes	finespots eviota
Chordata	Teleostei	Exallias brevis	fish	LC		shortbodied blenny
Chordata	Teleostei	Exocoetus volitans	fish	LC	yes	flying fish, poisson volant
Chordata	Teleostei	Ferdaulia orthogrammus	fish			
Chordata	Teleostei	Fibramia amboinensis	fish		yes	
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	Gnathodentex aureolineatus	fish	LC		striped large-eye bream
Chordata	Teleostei	Gnatholepis anjerensis	fish	LC		
Chordata	Teleostei	Gnatholepis cauerensis	fish	LC		eyebars 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 fuscomaculatus	fish	LC	yes	
Chordata	Teleostei	Gymnothorax margaritophorus	fish	LC		blotched-neck moray
Chordata	Teleostei	Gymnothorax miliaris	fish	LC	yes	goldentail moray
Chordata	Teleostei	Gymnothorax pictus	fish	LC		
Chordata	Teleostei	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	
Chordata	Teleostei	Hemigymnus melapterus	fish	LC		thicklip wrasse
Chordata	Teleostei	Hemiramphus far	fish		yes	spotted halfbeak
Chordata	Teleostei	Hemitaenichthys zoster	fish	LC		brown-and-white butterflyfish
Chordata	Teleostei	Heniochus monoceros	fish	LC		masked bannerfish
Chordata	Teleostei	Heteropriacanthus cruentatus	fish	LC		glasseye snapper
Chordata	Teleostei	Hipposcaryus harid	fish	LC		longnose parrotfish
Chordata	Teleostei	Hypoatherina barnesi	fish			Barnes' silverside

Continued on next page

phylum	class	species	group	category	new	vernacular
Chordata	Teleostei	Hypoatherina temminckii	fish			Samoan silverside
Chordata	Teleostei	Hyporhamphus affinis	fish			tropical halfbeak
Chordata	Teleostei	Kali indica	fish	LC	yes	Short-nosed swallower
Chordata	Teleostei	Kyphosus cinerascens	fish	LC		snubnose chub
Chordata	Teleostei	Kyphosus elegans	fish	LC	yes	Cortez sea chub
Chordata	Teleostei	Kyphosus vaigiensis	fish	LC	yes	brassy chub
Chordata	Teleostei	Lactoria cornuta	fish			longhorn cowfish
Chordata	Teleostei	Lampadena luminosa	fish	LC	yes	Luminous lanternfish
Chordata	Teleostei	Leiuranus semicinctus	fish	LC		saddled snake-eel
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
Chordata	Teleostei	Lutjanus erythropterus	fish	LC	yes	
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	yes	pinktail triggerfish
Chordata	Teleostei	Monodactylus argenteus	fish	LC		mono
Chordata	Teleostei	Monotaxis grandoculis	fish	LC		bigeye emperor
Chordata	Teleostei	Moringua javanica	fish		yes	Java spaghetti eel
Chordata	Teleostei	Mugil cephalus	fish	LC	yes	grey mullet, muge
Chordata	Teleostei	Mulloidichthys flavolineatus	fish	LC		yellowstripe goatfish
Chordata	Teleostei	Mulloidichthys vanicolensis	fish	LC		yellowfin goatfish
Chordata	Teleostei	Muraenichthys schultzei	fish	LC	yes	
Chordata	Teleostei	Myctophum orientale	fish		yes	
Chordata	Teleostei	Myrichthys colubrinus	fish	LC		harlequin snake-eel
Chordata	Teleostei	Myrichthys maculosus	fish	LC		tiger snake-eel
Chordata	Teleostei	Myripristis adusta	fish	LC		shadowfin soldierfish
Chordata	Teleostei	Myripristis berndti	fish	LC		blotcheye soldierfish
Chordata	Teleostei	Myripristis kuntzei	fish	LC		pearly soldierfish
Chordata	Teleostei	Myripristis pralinia	fish	LC	yes	scarlet soldierfish
Chordata	Teleostei	Myripristis violacea	fish	LC		

Continued on next page

phylum	class	species	group	category	new	vernacular
Chordata	Teleostei	Myripristis vittata	fish	LC		
Chordata	Teleostei	Naso brevirostris	fish	LC		spotted unicornfish
Chordata	Teleostei	Naso elegans	fish	LC		
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	Nectamia savayensis	fish	LC		
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	Ophichthus erabo	fish	LC	yes	
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	Ostorhinchus taeniophorus	fish			
Chordata	Teleostei	Oxycheilinus bimaculatus	fish	LC		twospot wrasse
Chordata	Teleostei	Oxyporhamphus micropterus	fish			smallwing flyingfish
Chordata	Teleostei	Paracheilinus filamentosus	fish	LC	yes	
Chordata	Teleostei	Paracheilinus mccoskeri	fish	LC	yes	McCosker's flasher
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		yellow saddle 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		
Chordata	Teleostei	Pelates quadrilineatus	fish			fourlined terapon
Chordata	Teleostei	Pempheris adusta	fish		yes	
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	Plagiotremus rhinorhynchus	fish	LC		bluestriped blenny
Chordata	Teleostei	Planiliza macrolepis	fish	LC		
Chordata	Teleostei	Platax orbicularis	fish	LC		circular spadefish
Chordata	Teleostei	Platybelone argalus	fish	LC		keeltail needlefish
Chordata	Teleostei	Plectorhinchus albivittatus	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		
Chordata	Teleostei	Plectroglyphidodon dickii	fish	NT		blackbar devil
Chordata	Teleostei	Plectroglyphidodon johnstonianus	fish	LC		Johnston Island damselfish
Chordata	Teleostei	Plectroglyphidodon leucozonus	fish	LC		
Chordata	Teleostei	Polydactylus sexfilis	fish		yes	sixfinger threadfin, barbare à six doigts

Continued on next page



phylum	class	species	group	category	new	vernacular
Chordata	Teleostei	Pomacanthus imperator	fish	LC		emperor angelfish
Chordata	Teleostei	Pomacentrus agassizii	fish		yes	
Chordata	Teleostei	Pristiapogon kallopterus	fish	LC		
Chordata	Teleostei	Promethichthys prometheus	fish	LC	yes	Roudi escolar
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 evides	fish	LC		blackfin dartfish
Chordata	Teleostei	Ptereleotris microlepis	fish	LC		smallscale hover goby
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 assasi	fish	LC	yes	Picasso 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 ittodai	fish	LC	yes	
Chordata	Teleostei	Sargocentron punctatissimum	fish	LC		speckled squirrelfish
Chordata	Teleostei	Sargocentron rubrum	fish	LC	yes	redcoat
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 prasiognathos	fish	LC		
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		
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		
Chordata	Teleostei	Sebastapistes mauritiana	fish	LC		spineblotch scorpionfish
Chordata	Teleostei	Sphaeramia orbicularis	fish	LC		orbiculate cardinalfish
Chordata	Teleostei	Sphyræna barracuda	fish	LC		great barracuda
Chordata	Teleostei	Sphyræna helleri	fish		yes	Heller's barracuda
Chordata	Teleostei	Sphyræna jello	fish		yes	pickhandle barracuda
Chordata	Teleostei	Sphyræna qenie	fish			blackfin 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 albobittata	fish	LC		bluelined wrasse
Chordata	Teleostei	Stethojulis bandanensis	fish	LC	yes	

Continued on next page

phylum	class	species	group	category	new	vernacular
Chordata	Teleostei	Stethojulis strigiventer	fish	LC		three-ribbon rainbowfish
Chordata	Teleostei	Sufflamen chrysopteron	fish	LC		
Chordata	Teleostei	Synanceia verrucosa	fish	LC		stonefish
Chordata	Teleostei	Synodus dermatogenys	fish	LC		
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 purpurum	fish	LC		surge wrasse
Chordata	Teleostei	Thunnus alalunga	fish	LC	yes	albacore, thon blanc
Chordata	Teleostei	Torquigener hypselogeneion	fish	LC	yes	orange-spotted toadfish
Chordata	Teleostei	Trachinotus bailloni	fish	LC		smallspotted dart
Chordata	Teleostei	Trachinotus carolinus	fish	LC	yes	pompano
Chordata	Teleostei	Tylosurus acus	fish	LC	yes	agujon needlefish
Chordata	Teleostei	Tylosurus crocodilus	fish	LC		houndfish
Chordata	Teleostei	Upeneus taeniopterus	fish	LC		fin-stripe goatfish
Chordata	Teleostei	Uropterygius xanthopterus	fish	LC		freckleface reef-eel
Chordata	Teleostei	Valenciennea sexguttata	fish	LC		sixspot goby
Chordata	Teleostei	Valenciennea strigata	fish	LC		blueband goby
Chordata	Teleostei	Vanderhorstia ornatissima	fish	LC		ornate prawn-goby
Chordata	Teleostei	Variola louti	fish	LC		lunartail grouper
Chordata	Teleostei	Vinciguerria nimbaria	fish	LC	yes	oceanic lightfish
Chordata	Teleostei	Xanthichthys mento	fish	LC	yes	redtail triggerfish
Chordata	Teleostei	Yongeichthys criniger	fish		yes	
Chordata	Teleostei	Zanclus cornutus	fish	LC		Moorish idol
Chordata	Teleostei	Zembrasoma velifer	fish			
Chordata		Chelonia mydas	turtles	EN		green turtle, tortue verte
Cnidaria	Anthozoa	Acrossota amboinensis	cnidarians		yes	
Cnidaria	Anthozoa	Andvakia discipulorum	cnidarians		yes	
Cnidaria	Anthozoa	Boloceroidea mcmurrici	cnidarians		yes	
Cnidaria	Anthozoa	Dipsastraea pallida	cnidarians	LC		
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	Pachyseris speciosa	cnidarians	LC	yes	serpent coral
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	Sarcophyton ehrenbergi	cnidarians		yes	
Cnidaria	Anthozoa	Sinuorota hexagonalis	cnidarians	LC		
Cnidaria	Anthozoa	Stylaraea punctata	cnidarians	DD		
Cnidaria	Anthozoa	Stylophora pistillata	cnidarians	NT		hood coral
Cnidaria	Anthozoa	Triactis producta	cnidarians		yes	crab anemone
Cnidaria	Hydrozoa	Antennella secundaria	cnidarians		yes	
Cnidaria	Hydrozoa	Apatizanclea divergens	cnidarians		yes	
Cnidaria	Hydrozoa	Cladonema multiramosum	cnidarians		yes	
Cnidaria	Hydrozoa	Clytia gracilis	cnidarians		yes	
Cnidaria	Hydrozoa	Diphyes bojani	cnidarians			

Continued on next page

phylum	class	species	group	category	new	vernacular
Cnidaria	Hydrozoa	Diphyes dispar	cnidarians		yes	
Cnidaria	Hydrozoa	Euphyllia 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	Stauridiosarsia nipponica	cnidarians		yes	
Cnidaria	Scyphozoa	Pelagia panopyra	cnidarians		yes	
Cryptophyta	Cryptophyceae	Hemiarma marina			yes	
Ctenophora	Tentaculata	Vallicula multiformis	cnidarians		yes	
Echinodermata	Asteroidea	Aquilonastra anomala	echinoderms		yes	
Echinodermata	Asteroidea	Mithrodia clavigera	echinoderms		yes	
Echinodermata	Echinoidea	Echinometra mathaei	echinoderms			rock-boring urchin
Echinodermata	Echinoidea	Echinostrephus molaris	echinoderms		yes	
Echinodermata	Echinoidea	Echinothrix calamaris	echinoderms		yes	banded sea urchin
Echinodermata	Echinoidea	Echinothrix diadema	echinoderms		yes	blue-black urchin
Echinodermata	Echinoidea	Eucidaris metularia	echinoderms			
Echinodermata	Echinoidea	Koehleraster abnormalis	echinoderms		yes	
Echinodermata	Echinoidea	Toxopneustes pileolus	echinoderms			
Echinodermata	Echinoidea	Tripneustes depressus	echinoderms		yes	
Echinodermata	Echinoidea	Tripneustes gratilla	echinoderms		yes	collector urchin
Echinodermata	Holothuroidea	Actinopyga mauritiana	echinoderms	VU	yes	
Echinodermata	Holothuroidea	Actinopyga obesa	echinoderms	DD	yes	
Echinodermata	Holothuroidea	Bohadschia cousteau	echinoderms	LC	yes	
Echinodermata	Holothuroidea	Bohadschia koellikeri	echinoderms	DD	yes	
Echinodermata	Holothuroidea	Bohadschia vitiensis	echinoderms	DD	yes	
Echinodermata	Holothuroidea	Chiridota impatiens	echinoderms		yes	
Echinodermata	Holothuroidea	Holothuria (Lessonothuria) insignis	echinoderms		yes	
Echinodermata	Holothuroidea	Holothuria (Lessonothuria) pardalis	echinoderms		yes	
Echinodermata	Holothuroidea	Holothuria (Staurotopora) pervicax	echinoderms		yes	
Echinodermata	Holothuroidea	Holothuria (Thymiosyscia) arenicola	echinoderms		yes	
Echinodermata	Holothuroidea	Holothuria atra	echinoderms	LC	yes	
Echinodermata	Holothuroidea	Labidodemas pertinax	echinoderms	LC	yes	
Echinodermata	Holothuroidea	Stichopus chloronotus	echinoderms	LC		
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	Breviturma pica	echinoderms			
Echinodermata	Ophiuroidea	Macrophiothrix longipeda	echinoderms		yes	
Echinodermata	Ophiuroidea	Macrophiothrix propinqua	echinoderms			
Echinodermata	Ophiuroidea	Ophiactis picteti	echinoderms		yes	
Echinodermata	Ophiuroidea	Ophiactis savignyi	echinoderms			
Echinodermata	Ophiuroidea	Ophiocoma cynthiae	echinoderms		yes	
Echinodermata	Ophiuroidea	Ophiocoma erinaceus	echinoderms			

Continued on next page

phylum	class	species	group	category	new	vernacular
Echinodermata	Ophiuroidea	Ophiocoma scolopendrina	echinoderms			
Echinodermata	Ophiuroidea	Ophiocomella valenciae	echinoderms		yes	
Echinodermata	Ophiuroidea	Ophionereis porrecta	echinoderms		yes	
Gastrotricha		Urodasy 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		yes	variable mussel
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	Callistoctopus ornatus	molluscs	LC		ornate octopus
Mollusca	Cephalopoda	Octopus cyanea	molluscs	LC		Cyane's octopus
Mollusca	Gastropoda	Aliculastrum parallelum	molluscs		yes	
Mollusca	Gastropoda	Apataxia cerithiiformis	molluscs		yes	
Mollusca	Gastropoda	Aplysia argus	molluscs		yes	
Mollusca	Gastropoda	Aplysia parvula	molluscs		yes	dwarf sea hare, petit lièvre de mer
Mollusca	Gastropoda	Atys semistriatus	molluscs		yes	
Mollusca	Gastropoda	Berthellina delicata	molluscs		yes	
Mollusca	Gastropoda	Biueve fulvipunctata	molluscs		yes	
Mollusca	Gastropoda	Bulla vernicosa	molluscs		yes	
Mollusca	Gastropoda	Caducifer decapitatus	molluscs		yes	
Mollusca	Gastropoda	Canarium mutabile	molluscs		yes	
Mollusca	Gastropoda	Carminodoris grandiflora	molluscs		yes	
Mollusca	Gastropoda	Cerithium atromarginatum	molluscs		yes	
Mollusca	Gastropoda	Cerithium egenum	molluscs		yes	
Mollusca	Gastropoda	Cerithium nesioticum	molluscs		yes	
Mollusca	Gastropoda	Cerithium nodulosum	molluscs		yes	Nadelschnecke giant knobbed cerith
Mollusca	Gastropoda	Cerithium rostratum	molluscs			
Mollusca	Gastropoda	Cheilea equestris	molluscs		yes	false cup-and-saucer limpet
Mollusca	Gastropoda	Chelidonura hirundinina	molluscs		yes	
Mollusca	Gastropoda	Corolla spectabilis	molluscs		yes	
Mollusca	Gastropoda	Creseis virgula	molluscs		yes	
Mollusca	Gastropoda	Cyerce elegans	molluscs		yes	
Mollusca	Gastropoda	Dendropoma platypus	molluscs		yes	
Mollusca	Gastropoda	Discodoris boholiensis	molluscs		yes	
Mollusca	Gastropoda	Dolabella auricularia	molluscs		yes	wedge sea hare
Mollusca	Gastropoda	Dolabrifera dolabrifera	molluscs		yes	
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	
Mollusca	Gastropoda	Ercolania annelyeorum	molluscs		yes	
Mollusca	Gastropoda	Favorinus japonicus	molluscs		yes	
Mollusca	Gastropoda	Firoloida desmarestia	molluscs		yes	

Continued on next page

phylum	class	species	group	category	new	vernacular
Mollusca	Gastropoda	Glossodoris hikuensis	molluscs		yes	
Mollusca	Gastropoda	Goniobranchus vibratus	molluscs		yes	
Mollusca	Gastropoda	Guttarium muricinum	molluscs		yes	
Mollusca	Gastropoda	Halgerda indotessellata	molluscs		yes	
Mollusca	Gastropoda	Haloa pemphis	molluscs		yes	
Mollusca	Gastropoda	Heliconoides inflatus	molluscs		yes	
Mollusca	Gastropoda	Hexabranchus sanguineus	molluscs		yes	Spanish dancer
Mollusca	Gastropoda	Hyalopatina planata	molluscs		yes	
Mollusca	Gastropoda	Indomodulus tectum	molluscs		yes	
Mollusca	Gastropoda	Lotyrris cingulifera	molluscs		yes	
Mollusca	Gastropoda	Lamprohaminoea cymbalum	molluscs		yes	
Mollusca	Gastropoda	Littoraria subvittata	molluscs			
Mollusca	Gastropoda	Lophocochlias parvissimus	molluscs		yes	
Mollusca	Gastropoda	Luria isabella	molluscs			dirty-yellow cowrie
Mollusca	Gastropoda	Lyncina vitellus	molluscs		yes	
Mollusca	Gastropoda	Mitrella rorida	molluscs		yes	
Mollusca	Gastropoda	Monetaria caputserpentis	molluscs			serpent's head cowry
Mollusca	Gastropoda	Monoplex mundus	molluscs		yes	
Mollusca	Gastropoda	Myurella affinis	molluscs		yes	
Mollusca	Gastropoda	Naria helvola	molluscs			
Mollusca	Gastropoda	Oxynoe kylei	molluscs		yes	
Mollusca	Gastropoda	Oxynoe viridis	molluscs		yes	
Mollusca	Gastropoda	Palmadusta ziczac	molluscs		yes	
Mollusca	Gastropoda	Phanerophthalmus lentiginus	molluscs		yes	
Mollusca	Gastropoda	Phanerophthalmus minikoiensis	molluscs		yes	
Mollusca	Gastropoda	Phanerophthalmus paulayi	molluscs		yes	
Mollusca	Gastropoda	Philineopsis speciosa	molluscs		yes	
Mollusca	Gastropoda	Phyllaplysia viridis	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	
Mollusca	Gastropoda	Rissoina ambigua	molluscs		yes	
Mollusca	Gastropoda	Samla bicolor	molluscs		yes	
Mollusca	Gastropoda	Seminella virginea	molluscs		yes	
Mollusca	Gastropoda	Stylocheilus striatus	molluscs		yes	
Mollusca	Gastropoda	Thuridilla livida	molluscs			
Mollusca	Gastropoda	Tomoberthella martensi	molluscs		yes	
Myzozoa	Dinophyceae	Amphidinium massartii	unicellular		yes	
Myzozoa	Dinophyceae	Cryptocodinium cohnii	unicellular		yes	
Myzozoa	Dinophyceae	Karenia brevis	unicellular		yes	
Myzozoa	Dinophyceae	Protoceratium reticulatum	unicellular		yes	
Myzozoa	Dinophyceae	Yihiella yeosuensis	unicellular		yes	
Ochrophyta	Dictyochophyceae	Octactis octonaria	algae		yes	
Ochrophyta	Dictyochophyceae	Pseudochattonella farcimen	algae		yes	
Ochrophyta	Dictyochophyceae	Vicicitus globosus	algae		yes	
Ochrophyta	Pelagophyceae	Pelagomonas calceolata	algae		yes	

Continued on next page

phylum	class	species	group	category	new	vernacular
Ochrophyta	Phaeophyceae	Canistrocarpus cervicornis	algae		yes	
Ochrophyta	Phaeophyceae	Dictyota bartayresiana	algae		yes	
Ochrophyta	Phaeophyceae	Dictyota ceylanica	algae		yes	
Ochrophyta	Phaeophyceae	Dictyota ciliolata	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	Raphidophyceae	Haramonas dimorpha	algae		yes	
Platyhelminthes		Prosthiostomum torquatum			yes	
Porifera	Demospongiae	Acanthotetilla celebensis	sponges		yes	
Porifera	Demospongiae	Axechna 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		yes	
Porifera	Demospongiae	Cliona mariae	sponges		yes	Maria Santana's Cliona
Porifera	Demospongiae	Cliothesa aurivillii	sponges		yes	
Porifera	Demospongiae	Cliothesa delitrix	sponges		yes	
Porifera	Demospongiae	Dysidea arenaria	sponges		yes	crater sponge
Porifera	Demospongiae	Ectyoplasia ferox	sponges		yes	
Porifera	Demospongiae	Fasciospongia cavernosa	sponges		yes	
Porifera	Demospongiae	Galaxia gaviotensis	sponges		yes	
Porifera	Demospongiae	Gelliodes wilsoni	sponges		yes	
Porifera	Demospongiae	Halichondria (Halichondria) bowerbanki	sponges		yes	Bowerbank's halichondria
Porifera	Demospongiae	Halichondria (Halichondria) okadai	sponges		yes	
Porifera	Demospongiae	Haliclona (Gellius) amboinensis	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	Nethea amygdaloides	sponges		yes	
Porifera	Demospongiae	Pachychalina tenera	sponges		yes	
Porifera	Demospongiae	Paracornulum dubium	sponges		yes	
Porifera	Demospongiae	Phorbas bihamiger	sponges		yes	
Porifera	Demospongiae	Phorbas clathratus	sponges		yes	
Porifera	Demospongiae	Pione vastifica	sponges		yes	boring sponge, clone rouge
Porifera	Demospongiae	Pione velans	sponges		yes	
Porifera	Demospongiae	Rhabderemia sorokiniae	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	

Continued on next page

phylum	class	species	group	category	new	vernacular
Porifera	Demospongiae	Terpios gelatinosus	sponges		yes	
Porifera	Demospongiae	Terpios hoshinota	sponges		yes	
Porifera	Demospongiae	Theonella swinhoei	sponges		yes	
Porifera	Homoscleromorpha	Plakortis deweerdtaphila	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	Harveyolithon munitum	algae		yes	
Rhodophyta	Florideophyceae	Herposiphonia pecten-veneris	algae		yes	
Rhodophyta	Florideophyceae	Hydrolithon boergesenii	algae		yes	
Rhodophyta	Florideophyceae	Hypnea nigrescens	algae		yes	
Rhodophyta	Florideophyceae	Hypnea spinella	algae			
Rhodophyta	Florideophyceae	Hypnea valentiae	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	Pterocladia caerulea	algae		yes	
Rhodophyta	Florideophyceae	Ramicrostus lateralis	algae		yes	
Rhodophyta	Florideophyceae	Rhodachlya hawaiiensis	algae		yes	
Rhodophyta	Florideophyceae	Rhodachlya madagascariensis	algae		yes	
Rhodophyta	Florideophyceae	Sarconema filiforme	algae		yes	
Rhodophyta	Florideophyceae	Spyridia filamentosa	algae		yes	
Rhodophyta	Florideophyceae	Wilsonosiphonia fujiae	algae		yes	
Rhodophyta	Florideophyceae	Amastigomonas debrynei			yes	