

IAN Symbol Libraries

Overview

The [IAN symbol libraries](#) currently contain 3074 custom made vector symbols designed specifically for enhancing science communication skills. Download the complete set or create a custom packaged version.

Our aim is to make them a standard resource for scientists, resource managers, community groups, and environmentalists worldwide. Easily create diagrammatic representations of complex processes with minimal graphical skills. Currently downloaded by 101717 users in 245 countries and 50 U.S. states.

The IAN Symbol Libraries are provided completely **cost and royalty free**.

Please acknowledge as: *Symbols courtesy of the Integration and Application Network (ian.umces.edu/symbols/)*.

The Libraries Include

3074 science/ecology symbols

55 albums in 6 categories

Vector (SVG & AI) versions

Raster (PNG) version

Acknowledgements

The IAN symbol libraries have been developed by many contributors:

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Ecosystems: Coastal/Marine



Australia QLD:
Bramble Bay



Australia QLD:
Deception Bay



Australia QLD:
Eastern Moreton Bay



Australia QLD: Gold
Coast



Australia QLD:
Pumicestone
Passage



Australia QLD:
Southern Moreton
Bay Islands



Australia QLD:
Waterloo Bay



Coast to coast USA
2D



Coastline 2D: barrier
island with microtidal
energy



Coastline 2D: barrier
island with mixed
energy



Coastline 2D:
catchment, river,
nearshore and
offshore reefs



Coastline 2D: clastic
and carbonate
sediment



Coastline 2D: closed
estuary and
nearshore reefs



Coastline 2D: coastal
floodplain



Coastline 2D: dunes
to open ocean



Coastline 2D: estuary
to deep reef



Coastline 2D: gradual
5 degree slope



Coastline 2D:
intertidal zone



Coastline 2D:
nearshore reef



Coastline 2D: open
estuary and
nearshore reef



Coastline 2D:
receding shoreline



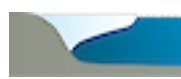
Coastline 2D:
salt wedge



Coastline 2D: sand
dune system



Coastline 2D: sand
dune system with
lagoon



Coastline 2D: sea ice
shelf



Coastline 2D: sea
level rise



Coastline 2D: sea-
level rise with
continental shelf



Coastline 2D: sea-
level rise with
continental slope



Coastline 2D: sea-
level rise with
increased swell



Coastline 2D:
sheltered vs. exposed
with calcareous
sediments



Coastline 2D:
sheltered vs. exposed
with siliceous
sediments



Coastline 2D: steep
45 degree slope



Coastline 2D: steep
shoreline



Coastline 2D: stepped
shoreline with variable
water quality



Coastline 3D: barrier
island bar



Coastline 3D: barrier
island lagoon system



Coastline 3D: barrier
islands



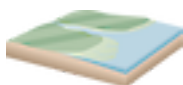
Coastline 3D: bay with
barrier island



Coastline 3D: beach



Coastline 3D: beach
to ocean



Coastline 3D:
comparison high vs
low marsh



Coastline 3D: dunes
and water table



Coastline 3D:
modified shoreline



Coastline 3D:
mountains to open
ocean



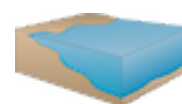
Coastline 3D:
mountains to open
ocean with upwelling



Coastline 3D:
mountains, dam,
island



Coastline 3D: natural
shoreline



Coastline 3D: oblique
beach to ocean



Coastline 3D: river
and barrier islands



Coastline 3D: river
comparison

Ecosystems: Coastal/Marine



Coastline 3D: river mouths



Coastline 3D: river to ocean



Coastline 3D: rivers and barrier islands



Coastline 3D: sandy coastline



Coastline 3D: spit formation



Coastline 3D: watershed and modified coastline



Estuary 2D: barrier island



Estuary 2D: channels and offshore sand drift



Estuary 2D: closed and shallow



Estuary 2D: closed with deep channel



Estuary 2D: closed with offshore sandbars



Estuary 2D: coastal embayment



Estuary 2D: continental island and offshore reef



Estuary 2D: dunes and salt wedge



Estuary 2D: inverse salt wedge



Estuary 2D: open



Estuary 2D: open with channels and sand dunes



Estuary 2D: open with mud deposits



Estuary 2D: open with sand bar



Estuary 2D: rarely vs. permanently open



Estuary 2D: rocky catchment



Estuary 2D: salt wedge



Estuary 2D: sand bar



Estuary 2D: seasonally closed



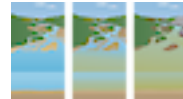
Estuary 2D: subtropical



Estuary 2D: tidally restricted



Estuary 2D: tropical with offshore reef



Estuary 3D: River Mouth Triptych



Estuary 3D: Sea-level rise diptych



Estuary 3D: braided river and mudflat



Estuary 3D: braided river mouth



Estuary 3D: modified coastline with barrier islands



Estuary 3D: river and barrier islands



Estuary 3D: stratified water column



Fiji: Lami Town



Habitat 2D: exposed sand with calcareous base



Habitat 2D: good vs. bad



Habitat 2D: intertidal mud



Habitat 2D: intertidal mudflat



Habitat 2D: protected sand



Habitat 2D: reef



Habitat 2D: sand and reef



Habitat 2D: subtidal mud



Habitat 2D: underwater shoreline



Headlands 3D: rocky



Headlands 3D: rocky with seastack



Headlands 3D: sandy



Lagoon 2D: closed and stratified

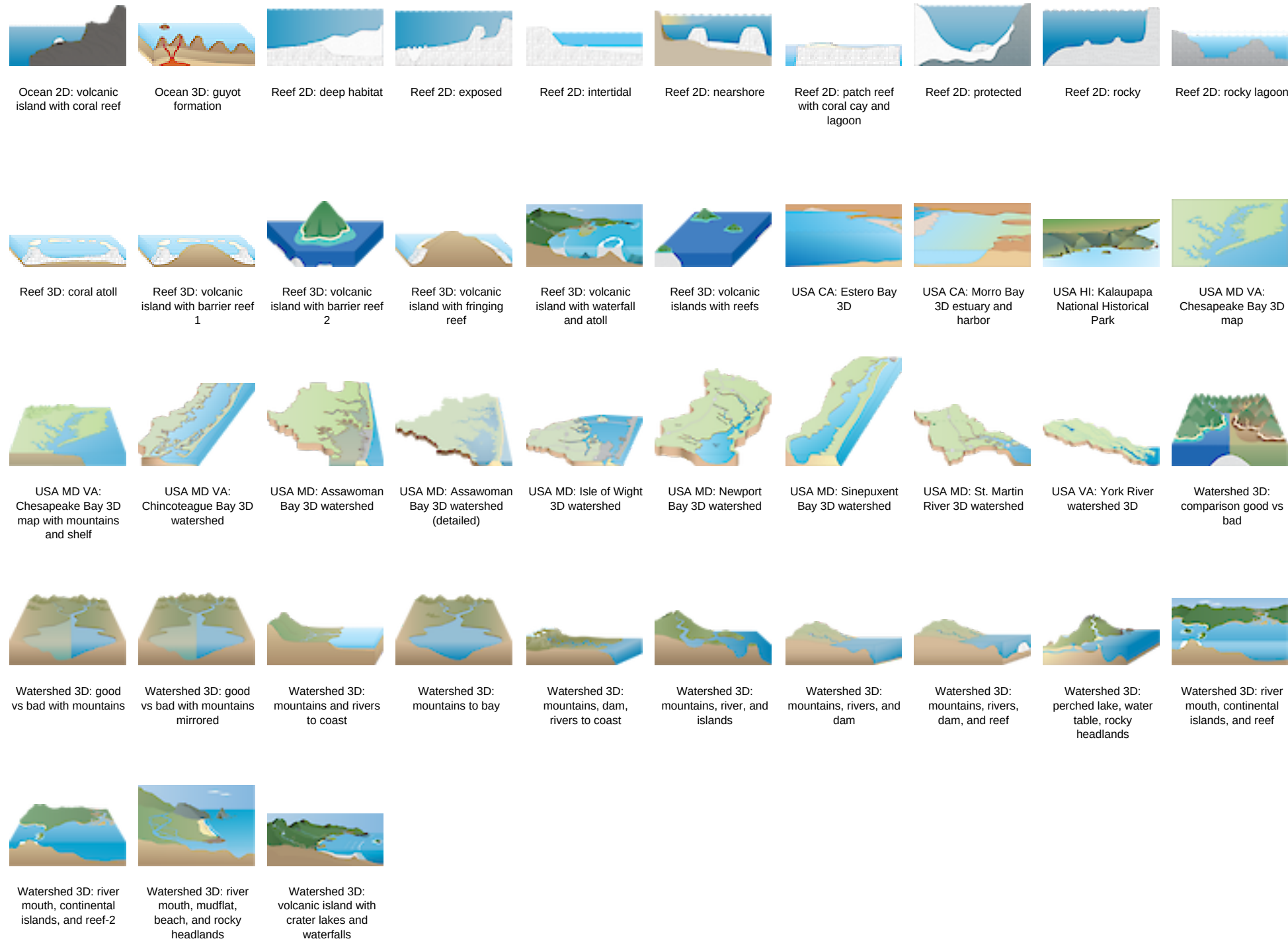


Lagoon 2D: open



Lagoon 3D: barrier sand islands

Ecosystems: Coastal/Marine



Ecosystems: Desert



Desert 3D: foothills 1



Desert 3D: foothills 2



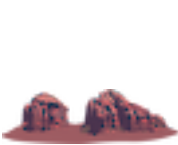
Desert 3D: interior valley



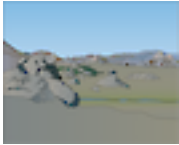
Desert 3D: mountains with dry creek and lake



Lake 2D: desert lunette



Sedona Red Rocks

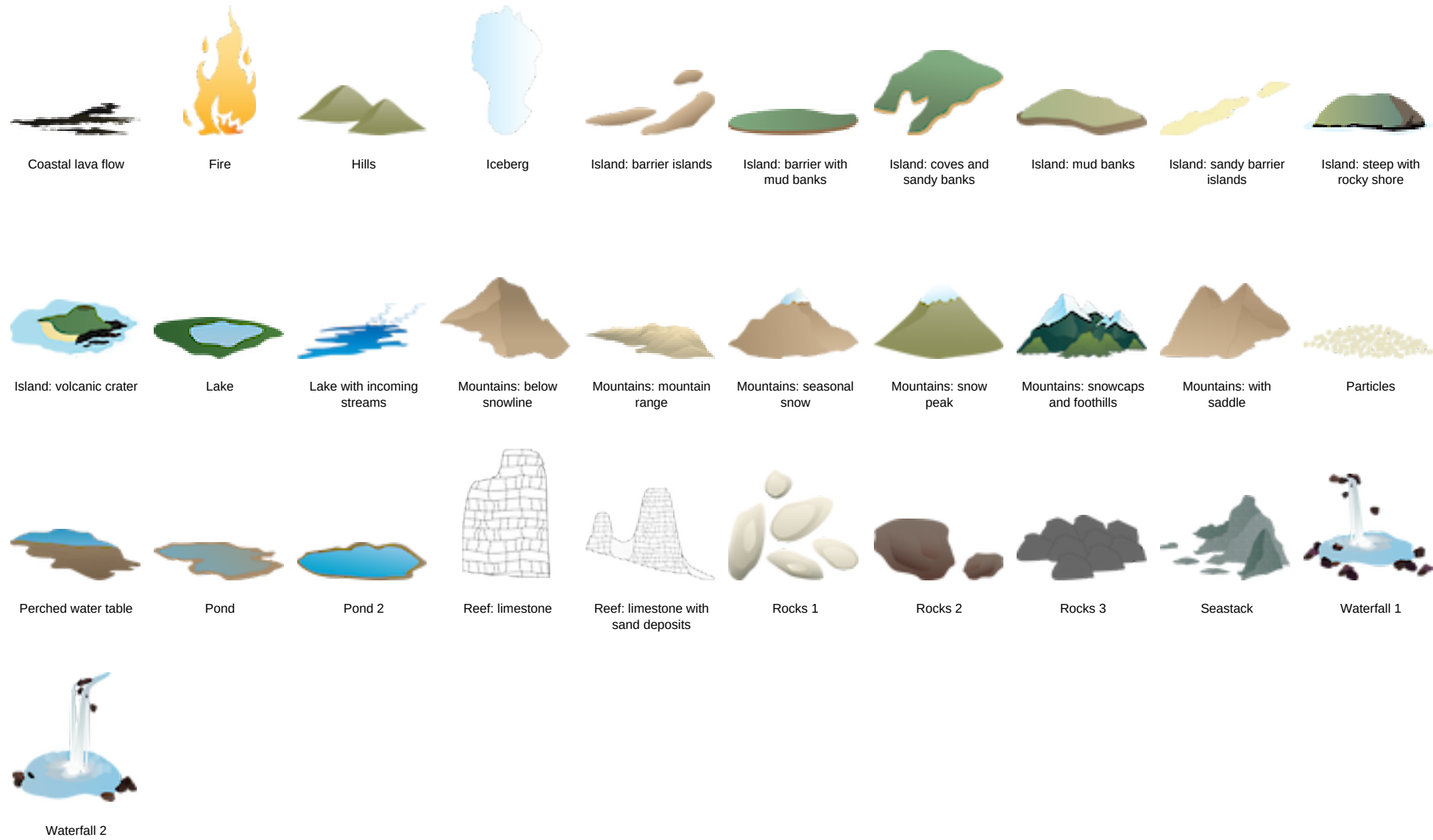


USA ID: City of Rocks National Reserve



USA OR: John Day Fossil Beds National Monument

Ecosystems: Elements



Ecosystems: Freshwater



Australia QLD:
Lockyer Creek



Australia QLD: Logan
River



Australia QLD:
Maroochy River



Australia QLD: Mid
Brisbane River



Australia QLD:
Mooloolah River



Australia QLD: Noosa
River



Australia QLD: North
Pine Dam



Australia QLD:
Somerset Dam



Australia QLD:
Stanley River



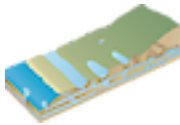
Australia QLD: Upper
Brisbane River



Australia QLD:
Wivenhoe Dam



Canyon 3D



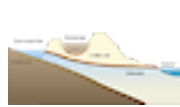
Karst 3D: cenotes,
sinkholes, and coastal
lagoon



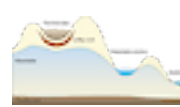
Lake 2D: glacial with
deltaic deposits and
terminal moraine



Lake 2D: laminated
sediment



Lake 2D: perched
lake and dune contact
lake



Lake 2D: perched
lake and water table
window



Lake 2D: stratified



Lake 2D: turbidite and
laminations



Lake 2D: varves



Lake 3D: oxbow lake



Lake 3D: oxbow lake
formation



Lake 3D: shallow with
small river



Pond 3D: freshwater



Pond 3D: muddy
shore



Ponds 3D: isolated



River 2D: deep



River 2D: deep
channel



River 2D: shallow



River 2D: water table
high



River 2D: water table
low



River 3D: braided
coastal



River 3D: braided with
incoming streams



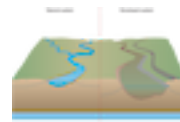
River 3D: braided with
mountains



River 3D: catchment



River 3D: comparison
healthy vs eutrophic



River 3D: comparison
natural vs. developed



River 3D: cross
section 1



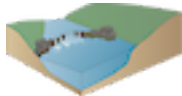
River 3D: cross
section 2



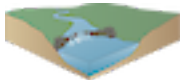
River 3D: cross
section 3



River 3D: cross
section 4



River 3D: cross vane
weir 1



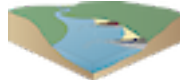
River 3D: cross vane
weir 2



River 3D: cutaway



River 3D: floodplain



River 3D: flow
deflector



River 3D: foothills and
sandy riverbed



River 3D: foothills to
coast

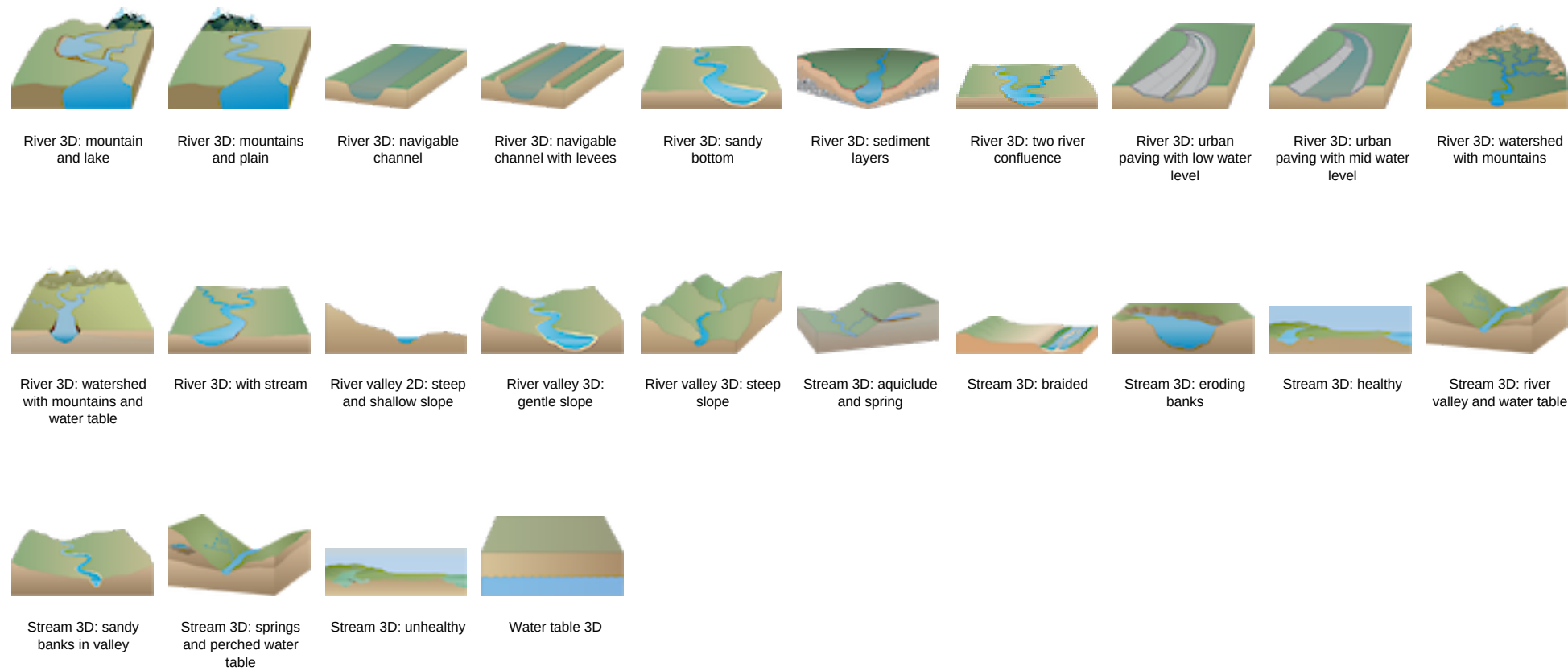


River 3D:
groundwater transport



River 3D: meandering
with sandy banks

Ecosystems: Freshwater



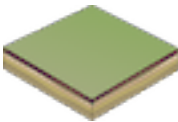
Ecosystems: Grassland



Plain 3D: mountains and lake



Plain 3D: simple



Plain 3D: simple with soil layers



Plains 3D: mountains, aquifer, and braided river system



Plains 3D: mountains, caves, sandstone outcrop, aquifer

Ecosystems: Maps



Australia



Australia: Moreton Bay



Australia: line map



Earth



Fiji: Lami Town



USA



USA AL FL: Perdido Bay



USA AL: Mobile Bay



USA CA: Humbolt Bay



USA CA: Monterey Bay



USA CA: San Diego Bay



USA CA: San Francisco Bay



USA CA: San Francisco, San Pablo, Suisan Bays



USA CA: San Pedro Bay



USA CA: Santa Monica Bay



USA CA: Tomales Bay



USA CT NY: Long Island Sound



USA CT: Connecticut River



USA DE MD VA: Coastal Bays



USA DE MD VA: Coastal Bays watershed



USA DE MD VA: Coastal Bays watershed locator map



USA DE MD VA: Delmarva



USA DE MD VA: Delmarva line map



USA DE NJ: Delaware Bay



USA DE: Delaware Inland Bays



USA FL: Apalachee Bay



USA FL: Apalachicola Bay



USA FL: Biscayne Bay



USA FL: Caloosahatchee River



USA FL: Charlotte Harbor



USA FL: Choctawhatchee Bay



USA FL: Florida Bay



USA FL: Indian River



USA FL: North Ten Thousand Islands



USA FL: Pensacola Bay



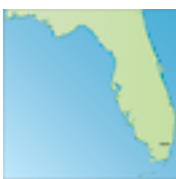
USA FL: Rookery Bay



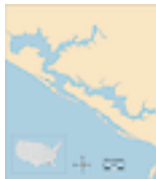
USA FL: Sarasota Bay



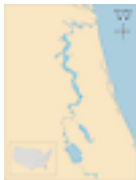
USA FL: South Ten Thousand Islands



USA FL: Southern Florida



USA FL: St. Andrew Bay



USA FL: St. Johns River



USA FL: Suwannee River



USA FL: Tampa Bay



USA GA FL: St. Marys River and Cumberland Sound



USA GA SC: Savannah River



USA GA: Altamaha River



USA GA: Ossabaw Sound



USA GA: St. Andrews and St. Simons Sounds



USA GA: St. Catherine's and Sapelo Sounds



USA LA MS: West Mississippi Sound

Ecosystems: Maps



USA LA TX: Sabine Lake



USA LA: Atchafalaya and Vermillion Bays



USA LA: Barataria Bay



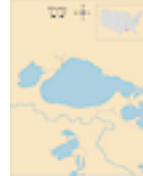
USA LA: Breton and Chandeleur Sound



USA LA: Calcasieu Lake



USA LA: Lake Borgne



USA LA: Lake Pontchartrain



USA LA: Manchac Swamp Bridge



USA LA: Mermentau River



USA LA: Mississippi River



USA LA: Terrebonne and Timbalier Bays



USA MA NH: Merrimack River



USA MA: Boston Harbor



USA MA: Buzzards Bay



USA MA: Cape Cod Bay



USA MA: Massachusetts Bay



USA MA: Plum Island Sound



USA MD VA: Chesapeake Bay



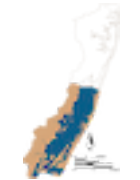
USA MD VA: Chesapeake Bay line map



USA MD VA: Chesapeake Bay watershed locator map



USA MD VA: Chincoteague Bay watershed



USA MD VA: Chincoteague Bay watershed locator map



USA MD VA: Chincoteague and Sinepuxent Bays



USA MD: Assawoman Bay watershed



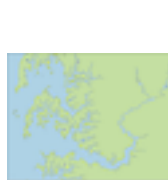
USA MD: Assawoman Bay watershed locator map



USA MD: Chester River



USA MD: Choptank River 1



USA MD: Choptank River 2



USA MD: Choptank River watershed locator map



USA MD: Isle of Wight and Assawoman Bay



USA MD: Isle of Wight watershed



USA MD: Isle of Wight watershed locator map



USA MD: Lower Eastern Shore watershed locator map



USA MD: Lower Western Shore watershed locator map



USA MD: Newport Bay watershed



USA MD: Newport Bay watershed locator map



USA MD: Patapsco and Back Rivers watershed locator map



USA MD: Patuxent River



USA MD: Patuxent River watershed locator map



USA MD: Potomac River



USA MD: Potomac River watershed locator map



USA MD: Sinepuxent Bay watershed



USA MD: Sinepuxent Bay watershed locator map



USA MD: St. Martin River watershed



USA MD: St. Martin River watershed locator map



USA MD: Tangier and Pocomoke Sounds



USA MD: Upper Eastern Shore watershed locator map



USA MD: Upper Western Shore watershed locator map

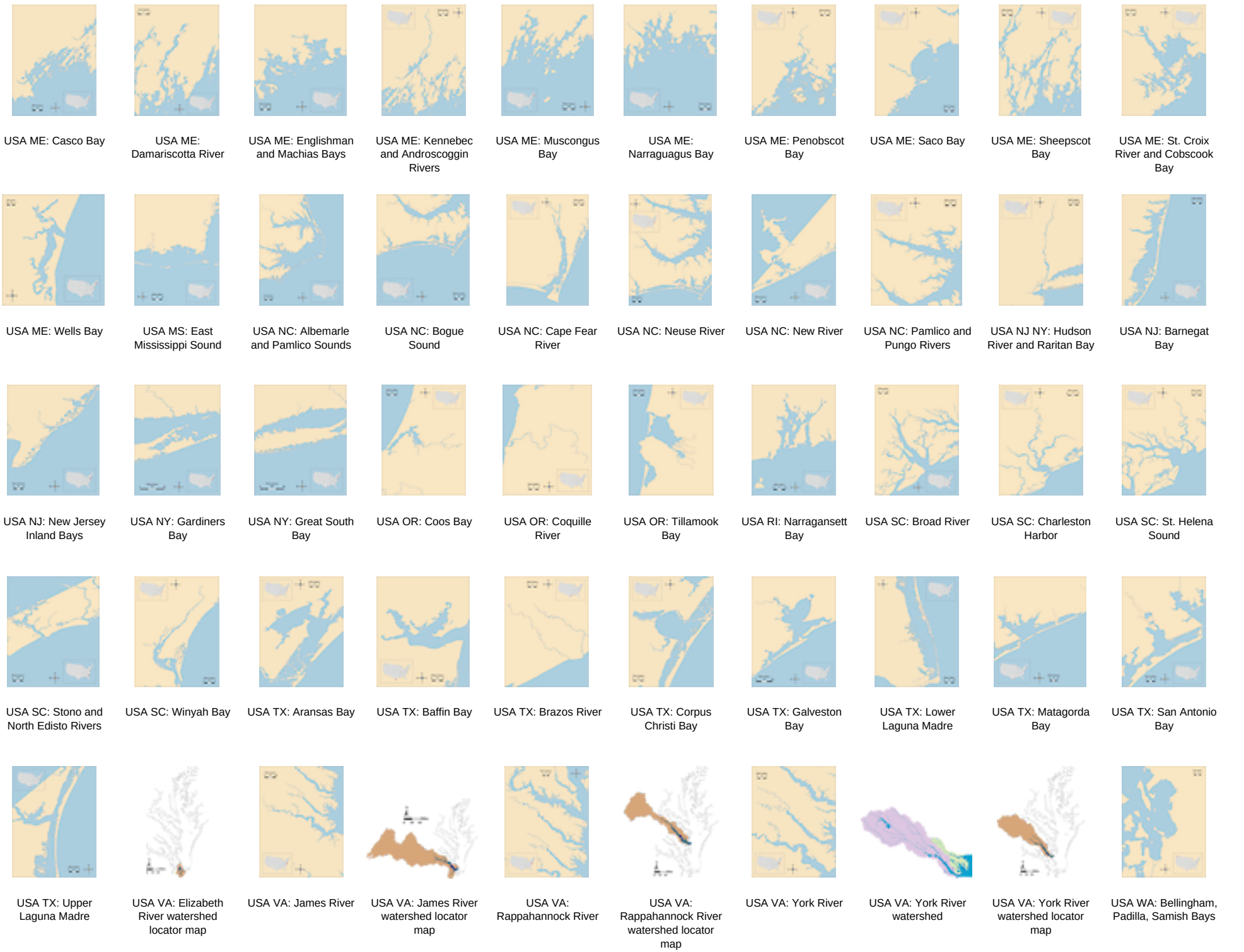


USA ME NH: Great Bay



USA ME: Blue Hill Bay

Ecosystems: Maps



Ecosystems: Maps



USA WA: Hood Canal



USA WA: Port Orchard Sound



USA WA: Puget Sound



USA WA: Sequim and Discovery Bays



USA WA: Skagit Bay and Whidbey Basin



USA WA: South Puget Sound



USA WA: Willapa Bay



USA: Chesapeake Bay watershed



USA: line map



USA: states

Ecosystems: Meteorology/Climate



Cold Front



Constellation:
Pleiades



High clouds:
Cirrocumulus



High clouds:
Cirrostratus



High clouds: Cirrus



Low clouds:
Cumulonimbus 1



Low clouds: Cumulus
1



Low clouds:
Stratocumulus 1



Low clouds: Stratus 1



Middle clouds:
Altostratus 1



Middle clouds:
Altostratus 1



Middle clouds:
Nimbostratus 1



Moon



Moon: first quarter



Moon: full



Moon: last quarter



Moon: new



Moon: waning
crescent



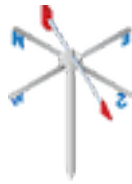
Moon: waning
gibbous



Moon: waxing
crescent



Moon: waxing
gibbous



Weather vane



Weather: cyclone (S
Hemisphere)



Weather: hurricane (N
Hemisphere)



Weather: rain



Weather: rain 2



Weather: sheeting
rain



Weather: snow



Weather: solar
radiation



Weather: wind 1



Weather: wind 2

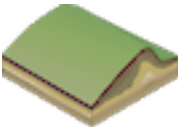


Weather: wind 3



Weather: wind vector

Ecosystems: Mountains/Tundra

									
Foothills 3D: foothills and plain	Hill 3D: with geologic layers	Lake 2D: caldera with volcanic island	Lake 3D: caldera lake	Lake 3D: caldera lake with volcanic island	Mount Fuji, Japan	Mountain 3D: glaciated	Mountain 3D: glaciers and foothills	Mountain range 3D	Mountain range 3D: eroded and unwarped plateau
									
Mountain range 3D: fault block	Mountain range 3D: folded	Mountain range 3D: foothills 1	Mountain range 3D: foothills 2	Mountain range 3D: foothills and glaciers	Mountain range 3D: foothills and stream	Mountain range 3D: plain (Great Sand Dunes)	Mountain range 3D: plain and water table (Great Sand Dunes)	Mountain range 3D: plain, rivers, and lakes	Mountain range 3D: plains and road
									
Mountain range 3D: river canyon, mesas, craters, and sand plain	Mountain range 3D: stream	Mountains 3D: glacier with braided stream and varve lake	Mountains 3D: high gradient stream to basalt lake	Mountains 3D: high gradient stream to sandstone lake	Mountains 3D: laminated lake	Mountains 3D: modified valley and granite outcrop	Mountains 3D: river, tinajas, and marsh	Mountains 3D: rocky outcrop and stream	USA VA: Shenandoah National Park

Ecosystems: Other



Meteorite 3D: crater



Meteorite 3D: crater lake



Plate tectonics:
subduction zone and
mid-ocean ridge



Volcano 3D: caldera



Volcano 3D: cinder
cone



Volcano 3D:
composite



Volcano 3D: dome



Volcano 3D: fissure



Volcano 3D: shield

Fauna: Amphibians



Ambystoma
maculatum (Spotted
Salamander)



Anura (Frog) lifecycle:
day 01 egg



Anura (Frog) lifecycle:
day 03-04 tailbud



Anura (Frog) lifecycle:
day 06 tadpole with
external gills



Anura (Frog) lifecycle:
day 09 tadpole with
internal gills



Anura (Frog) lifecycle:
day 12 tadpole with
operculum



Anura (Frog) lifecycle:
day 70 tadpole with
hindlimbs



Anura (Frog) lifecycle:
day 84 tadpole with
forelimbs



Anura (Frog) lifecycle:
day 84+ tadpole
metamorphosis



Anura (Frog) lifecycle:
day 84+ young frog



Bufo americanus
(American Toad) :
adult



Dendrobates pumilio
(Dart-poison Frog) :
adult



Desmognathus fuscus
(Northern Dusky
Salamander)



Eleutherodactylus
coqui (Coqui Frog)



Eurycea bislineata
(Northern Two-lined Salamander)



Hyla cinerea
(American Green Tree
Frog) : adult



Litoria caerulea
(Australian Green
Tree Frog) : adult



Plethodon
shenandoah
(Shenandoah
Salamander)



Pseudotriton ruber
(Northern Red Salamander)



Rana clamitans
melanota (Northern
Green Frog) : adult



Rana palustris
(Pickerel Frog) : adult

Fauna: Birds



'Akohekohe (palmeria dolei)



'O'mao (myadestes obscurus)



Acridotheres tristis (Common Myna)



Aegolius acadicus (Northern Saw-whet Owl)



Agelaius phoeniceus (Red-winged Blackbird)



Ajaja ajaja (Roseate Spoonbill)



Akiapola'au (hemignathus munroi)



Alcedo meninting (Blue-eared kingfisher)



Ammodramus maritimus (Seaside Sparrow)



Ammodramus nelsoni (Nelson's Sparrow)



Anas penelope (Eurasian Wigeon)



Anas platyrhynchos (Mallard Duck)



Anas rubripes (American Black Duck)



Anseranas semipalmata (Magpie Goose) 1



Anseranas semipalmata (Magpie Goose) 2



Aptenodytes forsteri (Emperor Penguin)



Ardea herodias (Great Blue Heron)



Ardea herodias (Great Blue Heron) 2



Athene cunicularia (Burrowing Owl)



Aythya affinis (Lesser Scaup)



Bird box



Bird nest with eggs



Branta bernicla (Atlantic Brant Goose)



Branta canadensis (Canada Goose)



Buteo lineatus (Red-shouldered Hawk)



Buteo rufinus (Long-legged Buzzard)



Calidris ferruginea (Curlew Sandpiper)



Calidris spp. (Sandpiper)



Cardinalis cardinalis (Northern Cardinal)



Casuarii spp. (Cassowary)



Catharus bicknelli (Bicknell's Thrush)



Centrocercus spp. (Sage Grouse)



Charadrius alexandrinus (Snowy Plover)



Charadrius melodus (Piping Plover) 1



Charadrius melodus (Piping Plover) 2



Charadrius montanus (Mountain Plover)



Coccyzus americanus (Yellow-billed Cuckoo)



Coccyzus minor (Mangrove Cuckoo)



Coereba flaveola (Bananaquit)



Columba livia (Rock Pigeon)



Cygnus atratus (Black Swan)



Cygnus buccinator (Trumpeter Swan)



Cygnus olor (Mute Swan) 1



Cygnus olor (Mute Swan) 2



Cygnus olor (Mute Swan) 3



Dacelo novaeguineae (Laughing Kookaburra)



Dead bird



Dendroica cerulea (Cerulean Warbler)



Dendroica discolor (Prairie Warbler)



Dendroica petechia (Yellow Warbler)

Fauna: Birds



Dolichonyx oryzivorus
(Bobolink)



Drepanis coccinea
(Scarlet Honeycreeper)



Dromaius novaehollandiae
(Emu)



Duck



Ducula bicolor (Pied Imperial Pigeon)



Elanus leucurus
(White-tailed Kite)



Elepaio (chasiempis sandwicensis)



Empidonax traillii extimus
(Southwestern Willow Flycatcher)



Empidonax virens
(Acadian Flycatcher)



Eolophus roseicapilla
(Galah)



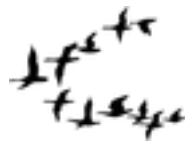
Eudocimus ruber
(Scarlet ibis or Guara)



Falco mexicanus
(Prairie Falcon)



Falco peregrinus
(Peregrine Falcon)



Flying geese



Fregata minor (Great Frigatebird)



Gallus gallus domesticus (Chicken)
1



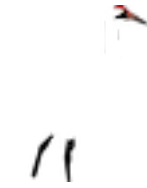
Gallus gallus domesticus (Chicken)
2



Geococcyx californianus (Greater Roadrunner)



Grus americana
(Whooping Crane) 1



Grus americana
(Whooping Crane) 2



Gymnomyza samoensis (Ma'o Ma'o)



Haematopus longirostris (Pied Oystercatcher)



Haematopus palliatus
(American Oystercatcher)



Haliaeetus leucocephalus (Bald Eagle)



Haliaeetus leucogaster (White-bellied Sea Eagle)



Hawaii'i akepa (Ixops coccineus)



Hawaii'i creeper (Oreomystis mana)



Hawaiian Crow or alala (Corvus hawaiiensis)



Himantopus himantopus (Black-winged Stilt)



Himantopus mexicanus (Black-necked Stilt)



Himantopus mexicanus (Black-necked Stilt) : eggs



House finch (Carpodacus mexicanus)



Hylocichla mustelina
(Wood Thrush)



Icterus galbula
(Baltimore Oriole)



Irediparra gallinacea
(Comb-crested Jacana)



Japanese bush warbler (Cettia diphone)



Japanese white-eye (Zosterops japonicus)



Larus spp. (Seagull)



Maui 'Alauahio (Paroreomyza montana)



Melanerpes erythrocephalus (Red-headed Woodpecker)



Meleagris gallopavo
(Wild turkey)



Mniotilta varia (black and white warbler)



Molothrus spp.
(Cowbird)



Molothrus spp.
(Cowbird) : nest



Mycteria americana
(Wood Stork)



Nycticorax nycticorax
(Black-crowned Night Heron)



Oporonotus formosus
(Kentucky Warbler)



Pandion haliaetus
(Osprey) adult



Passerculus sandwichensis
(Savannah Sparrow)



Passerina ciris
(Painted Bunting)

Fauna: Birds



Pelecanus occidentalis (Brown Pelican)



Pelecanus spp. (Pelican)



Phaethon aethereus (Red-billed Tropicbird)



Phalacrocorax auritus (Double-crested Cormorant)



Phalacrocorax varius (Australian Pied Cormorant)



Phoenicopterus minor (Lesser Flamingo) : flying



Phoenicopterus minor (Lesser Flamingo) : standing



Phoenicopterus minor (Lesser Flamingo) : walking



Phoenicopterus ruber (American Flamingo) 1



Phoenicopterus ruber (American Flamingo) 2



Phoenicopterus ruber (American Flamingo) 3



Picoides pubescens (Downy Woodpecker)



Platalea spp. (Spoonbill)



Pluvialis fulva (Pacific Golden Plover)



Po'ouli (melamprosops phaesoma)



Poecile atricapillus (Black-capped Chickadee)



Protonotaria citrea (Prothonotary Warbler)



Ptilinopus pelewensis (Palau Fruit-dove)



Recurvirostra americana (American Avocet) : summer plumage



Recurvirostra americana (American Avocet) : winter plumage



Recurvirostra novaehollandiae (Red-necked Avocet) 1



Recurvirostra novaehollandiae (Red-necked Avocet) 2



Recurvirostra novaehollandiae (Red-necked Avocet) : flock



Rostrhamus sociabilis (Snail Kite)



Rynchops niger (Black Skimmer)



Spiza americana (Dickcissel)



Spizella pusilla (Field Sparrow)



Sterna maximus (Royal Tern)



Sterna spp. (Tern)



Sternula antillarum (Least Tern)



Strix occidentalis (Spotted Owl)



Strix varia (Barred Owl)



Sturnella neglecta (Western Meadowlark)



Todiramphus chloris (Collared Kingfisher)



Trichoglossus haematodus (Rainbow Lorikeet)



Turdus migratorius (American Robin)



Vermivora chrysoptera (Golden-winged warbler)



Vireo altiloquus (Black-whiskered Vireo)



Vireo solitarius (Blue-headed vireo)

Fauna: Cnidaria



Acropora cervicornis
(Staghorn Coral)



Acropora cervicornis:
bleached



Acropora palmata
(Elkhorn Coral) 1



Acropora palmata
(Elkhorn Coral) 2



Acropora spp



Acropora: black band
disease



Acropora: bleached 1



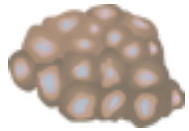
Acropora: bleached 2



Acropora: brown band
disease



Acropora: fragment



Brain coral (Faviidae)
1



Brain coral (Faviidae)
2



Branching coral



Branching coral:
juvenile



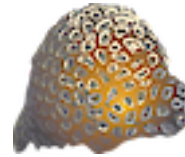
Catostylus mosaicus
(Jelly Blubber)



Coral larva



Coral polyp



Encrusting coral



Gorgonian: sea fan



Gorgonian: sea whip



Heliopora coerulea
(Blue Coral)



Hydra



Hydra: budding



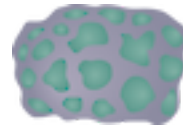
Jellyfish



Lobophyllia spp.
(Brain Coral)



Moerisia spp.
(Jellyfish)



Montastrea spp.
(Brain Coral)



Mushroom coral
(Fungia Spp.)



Mushroom coral
(Fungiidae)



Octocoral
(Octocorallia)



Plate coral 1



Plate coral 2



Plate coral 3



Plate coral: crown of
thorns damage



Platygyra spp. (Brain
Coral)



Pocillopora meandrina
(Cauliflower Coral)



Porites (Finger Coral)



Porites lobata (lobe
coral)



Porites lobata:
bleached



Sarcophyton spp



Sea anemone 1



Sea anemone 2



Soft coral



Tubastrea spp. 1 (Sun
Coral)



Tubastrea spp. 2 (Sun
Coral)

Fauna: Crustaceans



Acartia spp.
(Copepod)



Amphipod



Aratus pisonii
(Mangrove Tree Crab)



Barnacle: closed



Barnacle: open



Calcinus verrilli
(Verrilli's Hermit Crab)



Callianassa spp.
(Burrowing Mud Shrimp)



Callinectes sapidus
(Blue Crab) : adult 1



Callinectes sapidus
(Blue Crab) : adult 2



Callinectes sapidus
(Blue Crab) : coupling



Callinectes sapidus
(Blue Crab) : egg-bearing female



Callinectes sapidus
(Blue Crab) : eggs



Callinectes sapidus
(Blue Crab) : female ventral view



Callinectes sapidus
(Blue Crab) : first crab



Callinectes sapidus
(Blue Crab) : juvenile



Callinectes sapidus
(Blue Crab) : male dorsal view



Callinectes sapidus
(Blue Crab) : male ventral view



Callinectes sapidus
(Blue Crab) : megalopa 1



Callinectes sapidus
(Blue Crab) : megalopa 2



Callinectes sapidus
(Blue Crab) : ventral view adolescent female



Callinectes sapidus
(Blue Crab) : zoea 1



Callinectes sapidus
(Blue Crab) : zoea 2



Copepod 1



Crab zoea



Crayfish



Crustacean: juvenile



Crustacean: nauplius



Daphnia pulex (Water Flea)



Gammarus spp.
(Amphipod)



Goniopsis cruentata
(Mangrove Crab)



Grapsus tenuicrustatus (Thin-shelled Rock Crab)



Hermit Crab



Homarus gammarus
(European Lobster)



Macrobrachium jelskii
(Agar River Prawn)



Menippe mercenaria
(Florida Stone Crab)



Mictyris spp. (Soldier Crab) 1



Mictyris spp. (Soldier Crab) 2



Mysid spp



Oithona spp



Pachygrapsus marmoratus (Marbled Rock Crab)



Panulirus argus
(Spiny Lobster) : phyllosoma



Panulirus argus
(Spiny Lobster) : puerulus



Panulirus argus
(Spiny Lobster) eggs



Panulirus argus (spiny lobster) : frontal view



Panulirus argus (spiny lobster) : side view



Paraclanus spp



Penaeus monodon
(Tiger Prawn) : adult



Prawn shrimp



Rock Lobster



Stomatopod

Fauna: Crustaceans



Uca annulipes
(Mangrove Fiddler
Crab)



Uca spp. (Fiddler
Crab)



Uca spp. (Fiddler
Crab) 2



Uca spp. (Fiddler
Crab) : anterior view

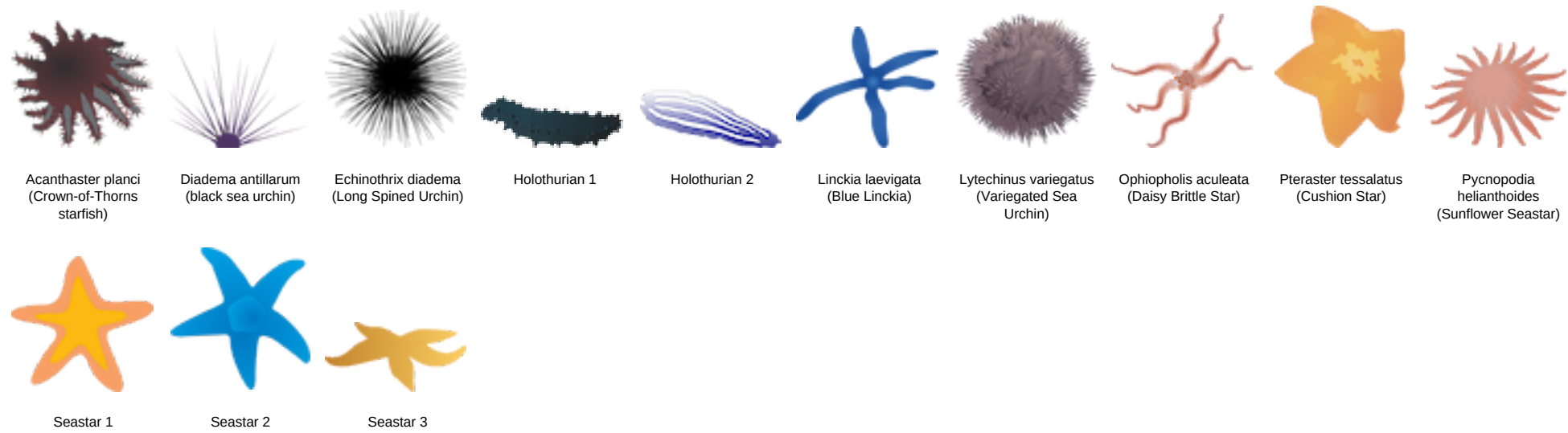


Uca thayeri
(Mangrove Fiddler
Crab)

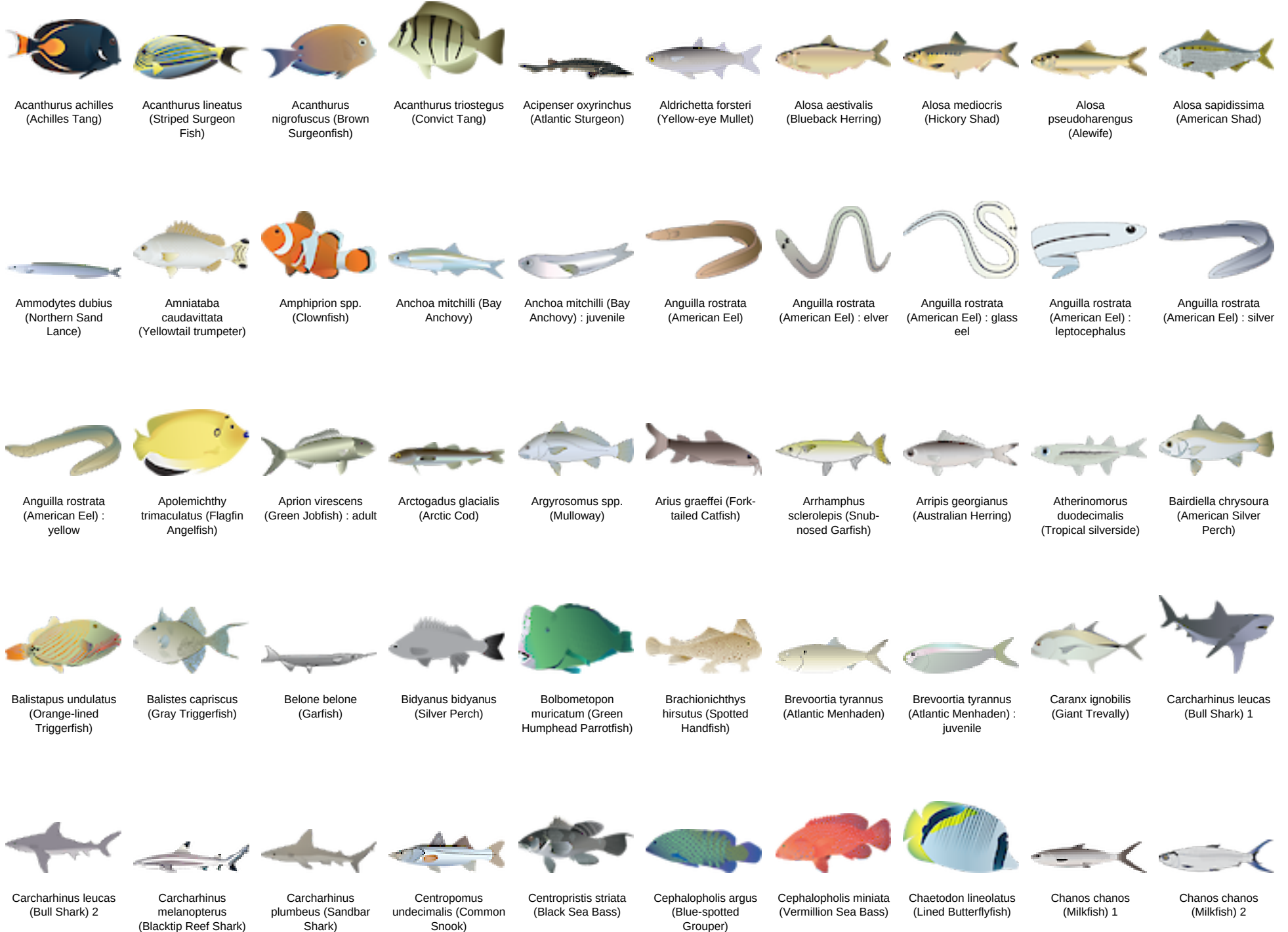


copepod2

Fauna: Echinoderms



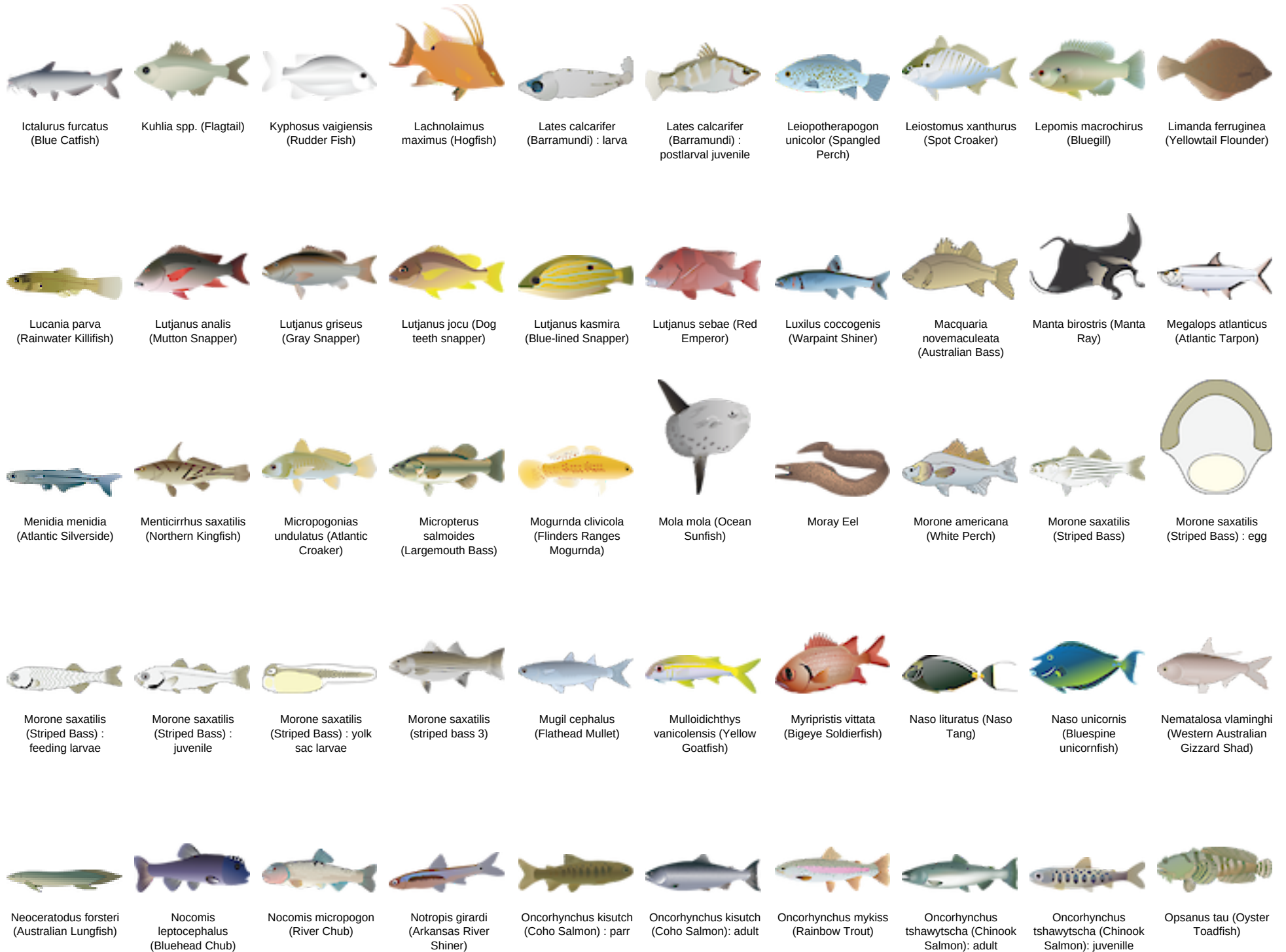
Fauna: Fish



Fauna: Fish

									
Chasmodes bosquianus (Striped Blenny)	Cheilinus spp. 1	Cheilinus spp. 2	Cheilinus undulatus (Humphead Wrasse) : female	Cheilinus undulatus (Humphead Wrasse) : male	Chitala ornata (Clown knife-fish)	Chloroscombrus chrysurus (Atlantic Bumper)	Chlorurus spilurus (Bullethead Parrotfish)	Chromis chromis (Mediterranean Chromis)	Cnidogobius macrocephalus (Cobbler)
									
Coregonus spp. (Cisco)	Coris julis (Mediterranean Rainbow Wrasse)	Cynoscion nebulosus (Spotted Seatrout)	Cynoscion regalis (Weakfish)	Cyprinus carpio (Common Carp)	Cypselurus callopterus (Ornamented Flying Fish)	Dascyllus aruanus (Whitetail dascyllus)	Dasyatis americana (Southern Stingray) 1	Dasyatis americana (Southern Stingray) 2	Diapterus plumieri (Striped Mojarra)
									
Diodon hystrix (Spot-fin Porcupinefish)	Diplodus vulgaris (Common Two-banded Seabream)	Elops saurus (Ladyfish)	Engraulis australis (Australian Anchovy)	Epinephelus fuscoguttatus (Brown-marbled Grouper)	Epinephelus itajara (Atlantic Goliath Grouper) 1	Epinephelus itajara (Atlantic Goliath Grouper) 2	Epinephelus malabaricus (Malabar grouper)	Epinephelus tukula (Potato Cod)	Esox lucius (Northern Pike)
									
Esox niger (Chain Pickerel)	Fish school-1	Fish school-2	Fish school-3	Fundulus heteroclitus (Mummichog) : female	Fundulus heteroclitus (Mummichog) : male	Gadus morhua (Atlantic Cod)	Galeocerdo cuvier (Tiger Shark)	Gerres subfasciatus (Silver Biddy)	Ginglymostoma cirratum (Nurse Shark)
									
Gobiesox strumosus (Skilletfish)	Gobiomorus dormitor (Big Mouth Sleeper)	Gobiosoma bosc (Naked Goby)	Haemulon plumieri (White Grunt)	Hippocampus erectus (Lined Seahorse)	Hippocampus spp. (Seahorse)	Hyperlophus vittatus (Sandy Sprat)	Hypophthalmichthys molitrix (Silver Carp)	Hypostomus plecostomus (Armored Catfish)	Hypsoblennius hentzi (Feather Blenny)

Fauna: Fish



Fauna: Fish



Orectolobus spp.
(Wobbegong)



Oreochromis
mossambicus
(Mozambique Tilapia)



Pagrus auratus
(Australasian
Snapper)



Paralichthys
californicus (California
Halibut)



Paralichthys dentatus
(Summer Flounder)



Paralichthys dentatus
(Summer Flounder) :
juvenile



Paralichthys dentatus
(Summer Flounder) :
larva



Pelates sexlineatus
(Six-lined Trumpeter)



Perca flavescens
(Yellow Perch)



Phoxinus eos
(Northern Redbelly
Dace)



Phycodurus spp.
(Leafy Sea Dragon)



Platycephalus spp.
(Flathead)



Plectorhinchus
chaetodonoides
(Spotted Sweetlips) :
juvenile



Plectorhinchus
polytaenia (Ribbioned
Sweetlips)



Plectropomus
areolatus (Squaretail
Coralgrouper)



Plectropomus
leopardus (Coral
Trout)



Plectropomus
oligacanthus (Highfin
Coralgrouper)



Plectropomus spp.
(Coral Trout)



Pleuronectes platessa
(European Plaice)



Pomacanthus
imperator (Emperor
Angelfish)



Pomatomus saltatrix
(Bluefish)



Pomatoschistus
minutus (Sand Goby)



Prinotus carolinus
(Northern Searobin)



Pristiophorus spp.
(Saw Shark)



Pristis pectinata
(Smalltooth Sawfish)



Pseudocaranx dentex
(White Trevally)



Pterois volitans (Red
Lionfish)



Ptychocheilus grandis
(Sacramento
Pikeminnow)



Rhabdosargus sarba
(Tarwhine)



Rhincodon typus
(Whale Shark)



Rhinecanthus
rectangulus (Wedge-
tail Triggerfish)



Rhinichthys atronasmus
(Blacknose Dace)



Rhinoptera bonasus
(Cownose Ray)



Rivulus marmoratus
(Mangrove Killifish)



Salmo salar (Atlantic
Salmon)



Salmo salar (atlantic
salmon) alevin



Salmo salar (atlantic
salmon) eggs



Salmo salar (atlantic
salmon) fry



Salmo salar (atlantic
salmon) parr



Salmo salar (atlantic
salmon) smolt



Salmo trutta (Brown
Trout)



Salvelinus alpinus
(Arctic Char)



Salvelinus
confluentus (Bull
Trout)



Salvelinus fontinalis
(Brook Trout)



Sander vitreus
(Yellow Walleye)



Sarpa salpa (Cow
Bream)



Scaphirhynchus albus
(Pallid Sturgeon)



Scarus spp.
(Parrotfish)

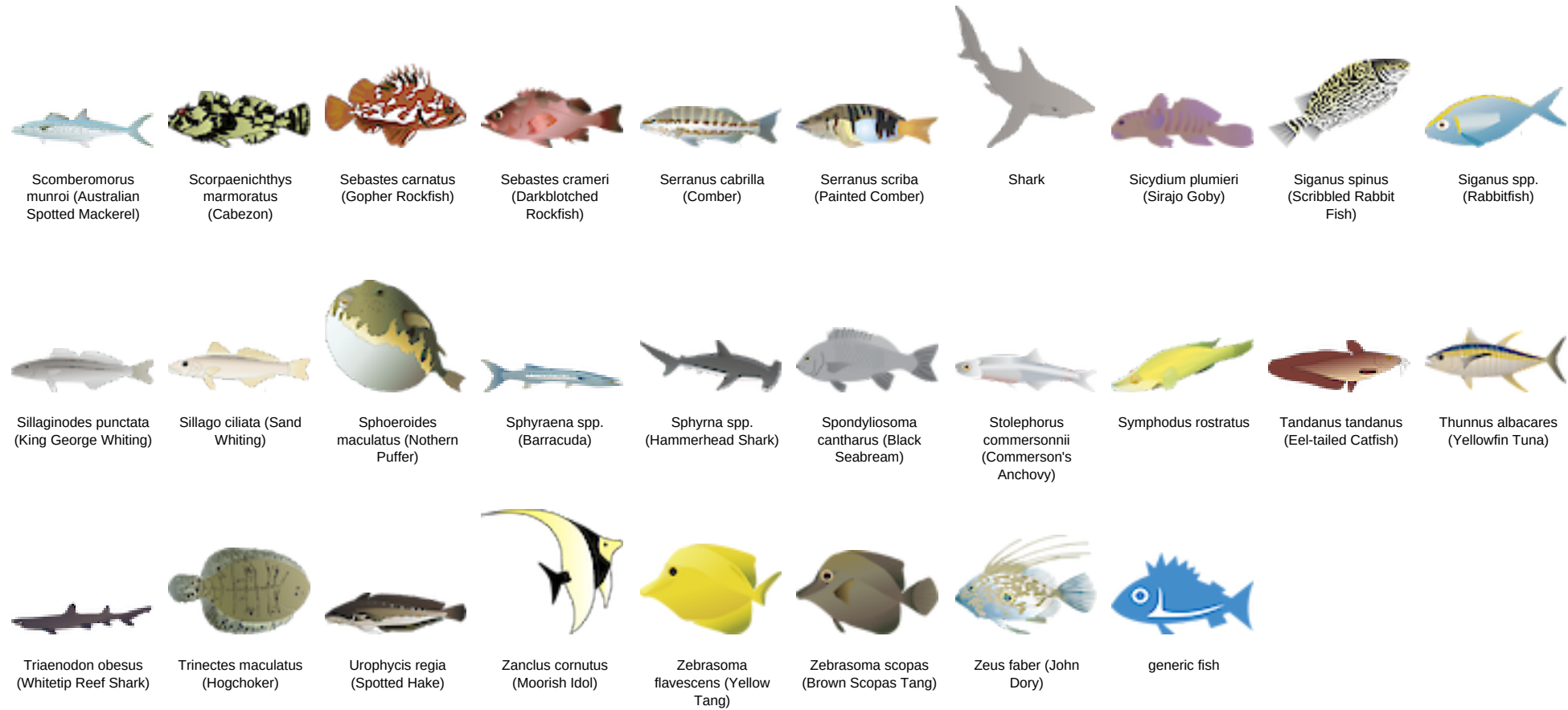


Sciaenops ocellatus
(Red Drum)



Scomberomorus
cavalla (King
Mackerel)

Fauna: Fish



Fauna: Insects/Arachnids



Actias luna (Luna Moth)



Anax-imperator dragonfly



Ant



Anthonomus grandis (Boll Weevil)



Bee



Beetle



Caddisfly : adult



Caddisfly : larva



Caddisfly : larva in case



Caterpillar



Centipede



Cicindela dorsalis media (Eastern Beach Tiger Beetle)



Cicindela theatina (Tiger Beetle)



Coccinella transversalis (Ladybird Beetle)



Daihinibaenetes giganteus (Giant Sand Treader Camel Cricket)



Danaus plexippus (Monarch Butterfly)



Dendroctonus ponderosae (Mountain Pine Beetle) 1



Dendroctonus ponderosae (Mountain Pine Beetle) 2



Dermatophagoides pteronyssinus (House Dust Mite)



Dragonfly : adult



Dragonfly : nymph



Eotetranychus sexmaculatus (Mite)



Firefly



Fly



Fossil: bee



Fossil: moth



Galerucella pusilla (Golden Loosetrife Beetle)



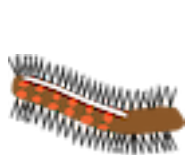
Grasshopper



Latrodectus hasselti (Redback Spider)



Lymantria dispar (Gypsy Moth)



Lymantria dispar (Gypsy Moth) : caterpillar



Mayfly : adult



Mayfly : larva



Mosquito 1



Mosquito 2



Ornithoptera priamus (King Priamo's Birdwing)



Papilio glaucus (Eastern Tiger Swallowtail Butterfly)



Papilio ulysses (Ulysses Butterfly)



Praying mantis



Problema bulenta (Rare Skipper)



Rhyothemis graphiptera (Banded Flutterer)



Scorpion



Solenopsis invicta (Red Imported Fire Ant)



Solenopsis spp. (Red Ant)



Spider web



Stonefly : adult



Stonefly : larva



Strymon melinus (Grey Hairstreak)



Stygobromus hayi (Hay's Spring amphipod)

Fauna: Mammals



Ailuropoda melanoleuca (Panda)



Alces alces (Moose)



Antilocapra americana (Pronghorn deer)



Antilope cervicapra (Blackbuck Antelope)



Arctocephalus pusillus (Brown Fur Seal)



Balaena mysticetus (Bowhead Whale)



Balaenoptera borealis (Sei Whale)



Bison bison (American Bison)



Bos taurus (Bull)



Bos taurus (Cow) 1



Bos taurus (Cow) 2



Bos taurus (Cow) 3



Bos taurus (Cow) 4



Bos taurus (Cow) 5



Bos taurus (Cow) 6



Bos taurus (Cow) 7



Bos taurus (Cow) : from above 1



Bos taurus (Cow) : from above 2



Bos taurus (Cow) : from above 3



Bos taurus (Hereford Steer)



Bos taurus (Longhorn Steer)



Camelus dromedarius (Arabian Camel)



Canis familiaris (dog): hunting dog



Canis latrans (Coyote)



Canis lupus familiaris (Dog)



Canis lupus familiaris (Dog) : feces



Capra aegagrus hircus (Goat)



Castor canadensis (North American Beaver)



Castor canadensis (North American Beaver) : dam



Castor canadensis (North American Beaver) : hut



Cervus elaphus (Red Deer) : buck



Cervus elaphus (Red Deer) : doe



Cervus nippon (Sika Deer) : buck



Cervus nippon (Sika Deer) : doe



Chaetodipus hispidus (Hispid Pocket Mouse)



Cynomys spp. (Prairie Dog)



Dipodomys ordii (Kangaroo Rat)



Dugong dugon (Dugong) 1



Dugong dugon (Dugong) 2



Enhydra lutris (Sea Otter) 1



Enhydra lutris (Sea Otter) 2



Equus ferus caballus (Horse) 1



Equus ferus caballus (Horse) 2



Equus ferus caballus (Horse) : feces



Equus ferus caballus (Pony) 1



Equus ferus caballus (Pony) 2



Equus quagga (Plains Zebra)



Eschrichtius robustus (Gray Whale)



Eubalaena glacialis (Right Whale)



Euderma maculatum (Spotted Bat)

Fauna: Mammals



Felis catus (Cat) : domestic



Felis catus (Cat) : feral



Feral pig 2



Fossil: rhinoceros jaw



Geomys bursarius (Plains Pocket Gopher)



Giraffa camelopardalis (Giraffe)



Gorilla gorilla (Gorilla)



Gulo gulo (Wolverine)



Herpestes javanicus (Small Asian Mongoose)



Lasurus cinereus semotus (Hawaiian Hoary Bat)



Lontra canadensis (North American River Otter)



Loxodonta spp. (African Elephant)



Lynx rufus (Bobcat)



Macropus agilis (Agile Wallaby)



Macropus fuliginosus (Western Grey Kangaroo) : female with joey



Macropus fuliginosus (Western Grey Kangaroo) : male



Macropus rufus (Red Kangaroo)



Marmota flaviventris (Marmot)



Martes pennanti (Fisher)



Megaptera novaeangliae (Humpback Whale) 1



Megaptera novaeangliae (Humpback Whale) 2



Megaptera novaeangliae (Humpback Whale) : breach



Megaptera novaeangliae (Humpback Whale) : tail



Mirounga angustirostris (Northern Elephant Seal)



Monachus schauinslandi (Hawaiian Monk Seal)



Mustela frenata (Long-tailed Weasel)



Mustela nigripes (Black-footed Ferret)



Myocastor coypus (Nutria)



Myotis lucifugus (Little Brown Bat)



Myotis septentrionalis (northern long-eared bat)



Myotis sodalis (Indiana bat)



Neophocaena phocaenoides (Finless Porpoise)



Neovison vison (American Mink)



Ochotona princeps (American Pika)



Odobenus rosmarus (Walrus)



Odocoileus virginianus (White-tailed Deer) : buck



Odocoileus virginianus (White-tailed Deer) : doe



Odocoileus virginianus (White-tailed Deer) : fawn



Orcinus orca (Orca)



Ornithorhynchus anatinus (Platypus)



Oryzomys argentatus (Silver Rice Rat)



Ovis aries (Sheep)



Ovis canadensis (Bighorn Sheep)



Panthera leo (Lion) : male



Panthera pardus (Panther)



Plecotus townsendii (Townsend's Big-eared Bat)



Procyon lotor (Raccoon) 1



Procyon lotor (Raccoon) 2

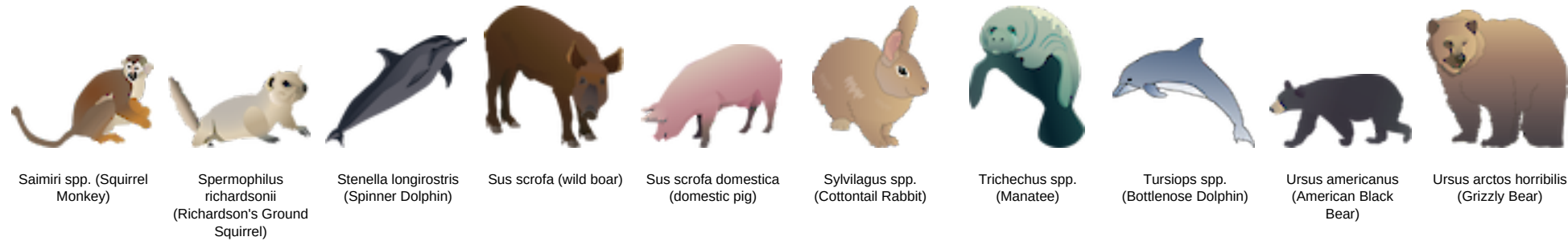


Pteropus spp. (Fruit Bat)



Puma concolor (Puma /cougar/mountain Lion)

Fauna: Mammals



Fauna: Molluscs



Fauna: Other



Ascidian



Bryozoan colony



Ctenophore (Comb Jelly)



Doliolid (Tunicate)



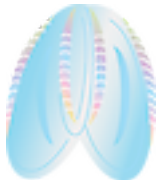
Fossil trilobite



Limulus polyphemus (Horseshoe Crab)



Limulus polyphemus (Horseshoe crab) 2



Mnemiopsis leidyi (Comb Jelly)



Neoesperiopsis rigida (Orange Finger Sponge)



Sea squirt



Sponge 1



Sponge 2



Springtail (Collembola)



Tardigrade

Fauna: Protozoans



Actinophrys sol
(Amoeba)



Chaos diffluens
(Amoeba)



Didinium gargantua
(Ciliate)



Didinium nasutum
(Ciliate)



Favella species



Flagellates 1



Flagellates 2



Gyrodinium species



Laboea strobila
(Ciliate)



Paramecium aurelia
(Ciliate)



Scuticociliate (Ciliate)



Strombidium (Ciliate)



Tintinnid (Ciliate)



Tintinnopsis species

Fauna: Reptiles

									
Alligator mississippiensis (American Alligator)	Caretta caretta (Loggerhead Turtle)	Caretta caretta (Loggerhead Turtle) : hatchling	Chelodina oblonga (Oblong Turtle)	Chelonia mydas (Green Sea Turtle)	Chelydra serpentina (Snapping Turtle)	Chrysemys picta (Painted Turtle)	Crocodylus acutus (American Crocodile)	Crotalus spp. (Rattle Snake)	Crotalus viridis cereberus (Arizona Black Rattlesnake)
									
Dermochelys coriacea (Leatherback Turtle)	Dermochelys coriacea (Leatherback Turtle) : hatchling	Eretmochelys imbricata (Hawksbill Turtle) : adult	Eretmochelys imbricata (Hawksbill Turtle) hatchling	Eumeces fasciatus (American Five-lined Skink)	Eunectes murinus (Green Anaconda)	Generic Turtle	Geochelone nigra (Galapagos Giant Tortoise) 1	Geochelone nigra (Galapagos Giant Tortoise) 2	Iguana spp
									
Lepidochelys kempii (Kemp's Ridley Sea Turtle)	Lepidochelys kempii (Kemp's Ridley Turtle) : hatchling	Lepidochelys olivacea (Olive Ridley Turtle) : adult	Lepidochelys olivacea (Olive Ridley Turtle) hatchling	Malaclemys centrata (Diamondback Terrapin)	Malaclemys terrapin macrospilota (Ornate Diamondback Terrapin)	Natator depressa (Flatback Sea Turtle) : adult	Natator depressa (Flatback Sea Turtle) : hatchling	Nerodia fasciata compressicauda (Mangrove Water Snake)	Python bivittatus (Burmese python)
									
Sceloporus woodi (Florida Scrub Lizard) Female	Sceloporus woodi (Florida Scrub Lizard) Male	Turtle 1	Turtle 2	Turtle eggs	Varanus komodoensis (Komodo Dragon)				

Fauna: Worms

									
Anguillicoloides crassus (Nematode Worm)	Ascaris spp. (Roundworm)	Feather duster worm	Flatworm	Gordian worm	Gordius spp. (Horsehair Worm)	Lumbricus spp. (Earthworm) 1	Lumbricus spp. (Earthworm) 2	Nematode	Palolo virdis (Samoan Palolo Worm)
									
Polychaete 1	Polychaete 2	Polychaete with white bristles	Pseudoceros dimidiatus (Divided Flatworm)	Segmented worm	Spirobranchus giganteus (Christmas Tree Worms) 1	Spirobranchus giganteus (Christmas Tree Worms) 2	Stylochus ellipticus (Flat Worm)	Worms	

Flora: Fungi/Lichen/Moss



Cantharellus cibarius
(Golden Chanterelle)



Lobaria pulmonaria



Moss 1



Moss 2

Flora: Grasses/Herbaceous Plants



Acrostichum speciosum (Mangrove Fern)



Acrostichum speciosum (Mangrove Fern) branch



Acrostichum speciosum (Mangrove Fern) leaf



Agropyron pectiniforme (Crested Wheatgrass)



Agrostis spp. (Tickle Grass)



Alliaria petiolata (Garlic Mustard)



Amaranthus pumilus (Seabeach Amaranth)



Ammophila breviligulata (American Beachgrass)



Andropogon gerardii (Big Bluestem)



Bamboo 1



Bamboo 2



Bidens spp. (Bur-marigold)



Bouteloua curtipendula (Sideoats grama)



Bouteloua dactyloides (Buffalo Grass)



Bouteloua gracilis (Blue Grama)



Bromus spp. (Brome Grass)



Calocephalus platycephalus (Billybuttons)



Capparis sandwichiana (Pua Pilo)



Centaurea solstitialis (Yellow Starthistle)



Centaurea spp. (Knapweed)



Chelone glabra (White Turtlehead)



Cirsium arvense (Creeping Thistle)



Cleome multicaulis (Slender Spiderflower)



Cypripedium spp. (Lady's Slipper)



Dactylis glomerata (Orchard Grass)



Danthonia spicata (Poverty Oatgrass)



Distichlis spicata (Coastal Salt Grass)



Echinacea purpurea (Purple Coneflower)



Euphorbia esula (Leafy Spurge)



Festuca spp. (Fescue)



Gaillardia aristata (Blanketflower)



Gaillardia pulchella (Indian Blanket)



Generic fern



Heteropogon contortus (Pili Grass)



Hudsonia tomentosa (Beach Heath)



Lilium longiflorum (Easter Lily)



Lobelia cardinalis (Cardinal Flower)



Lomandra spp. (Lomandra)



Lythrum salicaria (Purple Loosestrife)



Microstegium vimineum (Japanese Stilt Grass) 1



Microstegium vimineum 2 (Japanese Stiltgrass)



Monarda spp. (Bee Balm)



Monarda spp. (Bee Balm) flowers



Muhlenbergia sobolifera (Rock Muhly)



Oryza meridionalis (Wild rice)



Osmunda cinnamomea (Cinnamon Fern)



Oxalis stricta (Common Yellow Woodsorrel)



Panicum virgatum (Switchgrass)



Pascopyrum smithii (Western Wheatgrass)



Pennisetum ciliare (Buffelgrass)

Flora: Grasses/Herbaceous Plants



Penstemon barbatus
(Golden-beard
Penstemon)



Peperomia spp. ('ala
'ala Wai Nui)



Phlox buckleyi wherry
(Sword Leaf Phlox)



Poa pratensis
(Kentucky Bluegrass)



Poaceae (Grass)



Polygonum
cespitosum (Oriental
Lady's Thumb)



Polypodium
virginianum (Rock
Cap Fern) 1



Polypodium
virginianum (Rock
Cap Fern) 2



Polypodium
virginianum (Rock
Cap Fern) 3



Polystichum
acrostichoides
(Christmas Fern)



Pseudoroegneria
spicata (Bluebunch
Wheatgrass)



Sanguisorba
canadensis
(Canadian Burnet)



Scaevola coriacea
(Dwarf Naupaka)



Schizachyrium
scoparium (Little
Bluestem)



Seed parachute



Sibbaldiopsis
tridentata (Three-
toothed Cinquefoil)



Sida fallax (Ilima)



Sorghastrum nutans
(Indian Grass)



Spartina pectinata
(Prairie Cordgrass)



Stipa viridula (Green
Needlegrass)



Tridens flavus
cupreus (Purpletop)



Triodia spp. (Spinifex)



Typha x glauca (White
Cattail)



Verbascum thapsus
(Common Mullein)



Wilted plant

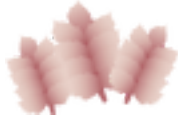
Flora: Macroalgae



Acanthophora
spicifera (Spiny
Seaweed)



Asparagopsis spp



Asparagopsis
taxiformis (Limu
Kohu)



Catanella spp



Caulerpa filiformis



Caulerpa racemosa 1



Caulerpa racemosa 2



Caulerpa taxifolia



Chaetomorpha linum



Chaetomorpha spp



Chaetomorpha spp.
microscopic view



Chlorodesmis spp.
(Turtle Weed)



Chlorophyta



Chondrus crispus
(Irish Moss)



Codium fragile (Dead
Man's Fingers)



Colpomenia spp



Coralline algae



Cryptopleura ramosa



Cystoseira compressa



Dictyota dichotoma



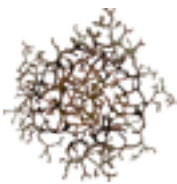
Ecklonia radiata



Enteromorpha
intestinalis (Gutweed)



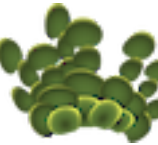
Epilithic algae



Gracilaria spp. 1



Gracilaria spp. 2



Halimeda discoidea



Halimeda spp



Hormosira banksii
(Neptune's Necklace)



Hypnea musciformis



Laminaria spp



Laurencia obtusa



Laurencia spp



Macrocystis pyrifera
(Giant Kelp) 1



Macrocystis pyrifera
(Giant Kelp) 2



Nereocystis pyrifera
(Bull Kelp)



Padina (Brown Algae)



Padina spp.
(Peacock's Tail)



Rhodophyta (Red
Algae)



Saccharina latissima
(Sugar Kelp)



Sarcothalia stiriata



Sargassum spp



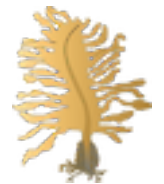
Splachnidium
rugosum



Turf algae



Ulva spp. (Sea
Lettuce)



Undaria pinnatifida
(Wakame)

Flora: Mangroves



Aegiceras
corniculatum



Aegiceras
corniculatum flower



Aegiceras
corniculatum fruit



Aegiceras
corniculatum leaf



Avicennia germinans
(Black Mangrove)



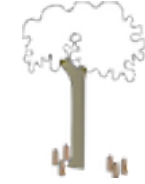
Avicennia germinans
(Black Mangrove) :
dead



Avicennia germinans
(Black Mangrove) :
stress



Avicennia marina
(Grey Mangrove)



Avicennia marina
(Grey Mangrove)
albino



Avicennia marina
(Grey Mangrove)
flower



Avicennia marina
(Grey Mangrove) fruit



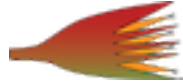
Avicennia marina
(Grey Mangrove) leaf



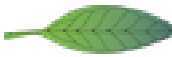
Bruguiera
gymnorhiza 1



Bruguiera
gymnorhiza 2



Bruguiera
gymnorhiza flower



Bruguiera
gymnorhiza leaf



Bruguiera
gymnorhiza mature
hypocotyl



Ceriops australis



Ceriops australis
flower



Ceriops australis leaf



Ceriops australis
mature hypocotyl



Dead Avicennia



Dead Rhizophora



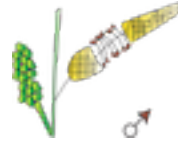
Excoecaria agallocha



Excoecaria agallocha
female flower



Excoecaria agallocha
leaf



Excoecaria agallocha
male flower



Excoecaria agallocha
seed capsule



Lumnitzera racemosa



Lumnitzera racemosa
flower



Lumnitzera racemosa
fruit 1



Lumnitzera racemosa
fruit 2



Lumnitzera racemosa
leaf



Mangrove direct
damage effects



Mangrove ecotone
shift effects



Mangrove gain effects



Mangrove growth



Mangrove insect
damage effects



Mangrove loss effects



Mangrove nutrient
excess effects



Mangrove oil spill
effects



Mangrove reclamation
effects



Mangrove restricted
tidal exchange effects



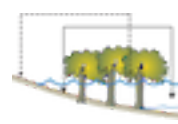
Mangrove species
specific effects



Mangrove storm
damage effects



Mangrove wrack
accumulation effects



Mangrove zonal shift
effects



Rhizophora apiculata
(tall-stilt mangrove)



Rhizophora mangle
(Red Mangrove)



Rhizophora mangle
(Red Mangrove)
seedling

Flora: Mangroves



Rhizophora
mucronata



Rhizophora stylosa



Rhizophora stylosa
flower



Rhizophora stylosa
fruit



Rhizophora stylosa
leaf



Rhizophora stylosa
propagule



Sonneratia alba
(Mangrove Apple)

Flora: Marsh/Wetlands



Ceratopteris spp



Cladium procerum
(Leafy Twig-sedge)



Eichhornia crassipes
(Water Hyacinth)



Eleocharis dulcis
(Chinese Water Chestnut)



Eleocharis spp. (Spike Rush)



Fimbristylis dichotoma
(Tall Fringe-rush)



Hymenachne amplexicaulis (Olive hymenachne)



Impatiens capensis
(Spotted Jewelweed)



Kosteletzkya virginica
(Seashore Mallow) 1



Kosteletzkya virginica
(Seashore Mallow) 2



Lepironia articulata
(Blue Rush)



Miscanthus sinensis
(Chinese Silvergrass)



Nelumbo lutea
(American Water Lotus) : bud



Nelumbo lutea
(American Water Lotus) : flower 1



Nelumbo lutea
(American Water Lotus) : flower 2



Nelumbo lutea
(American Water Lotus) : pad



Nelumbo lutea
(American Water Lotus) : seed pod



Nymphaea odorata
(White Water Lily) : flower



Nymphaea odorata
(White Water Lily) : pad



Oryza spp. (Rice)



Peltandra virginica
(Green Arrow Alum)



Phragmites australis
(Common Reed)



Phragmites australis
(Common Reed) singular



Ptilimnium-nodosum-harperella



Reeds



Sagittaria spp.
(Arrowhead)



Salvinia molesta
(Giant Salvinia)



Sarcocornia spp.
(Samphire)



Scirpus americanus
(Bulrush)



Scirpus spp. (Bulrush)



Spartina alterniflora
(Smooth Cordgrass)



Spartina alterniflora
(Smooth Cordgrass) singular



Spartina patens
(Saltmeadow Cordgrass)



Spartina spp. (Salt Marsh Grass)



Sporobolus spp.
(Dropseed)



Suaeda australis
(Austral Seablite)



Tecticornia flabelliformis
(Bead Samphire)



Tecticornia spp.
(Samphire)



Typha orientalis
(Bulrush)



Typha spp. (Cattail)



Wetland



Zizania spp. (Wild Rice)

Flora: Microalgae



Akashiwo sanguinea
(Dinoflagellate)



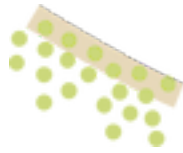
Amphidinium crassum
(Dinoflagellate)



Amphidinium
operculatum
(Dinoflagellate)



Asterionellopsis
glacialis (Diatom)



Benthic microalgae 1



Benthic microalgae 2



Centric diatom



Ceratium furca
(Dinoflagellate)



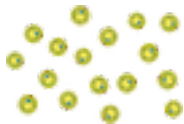
Ceratium spp.
(Dinoflagellate)



Chaetoceros affinis
(Diatom)



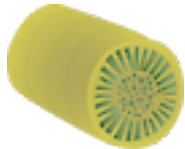
Chattonella spp



Chlamydomonas



Coccolithophore



Cyclotella



Cyclotella: single



Diatoms



Dinoflagellate 1



Dinoflagellate 2



Dinoflagellate 3



Dinoflagellate cyst 1



Dinoflagellate cyst 2



Dinoflagellate cyst 3



Dinoflagellates



Dinophysis acuminata
(Dinoflagellate)



Fibrocapsa japonica



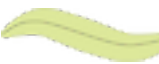
Gymnodinium
catenatum



Karlodinium micrum



Mixed Phytoplankton
Community Coloured



Pennate Diatom 2



Pennate diatom 1



Pfiesteria piscicida
(Dinoflagellate)



Pfiesteria shumwayae
(Dinoflagellate)



Phytoplankton bloom



Prorocentrum micans
(Dinoflagellate)



Prorocentrum
minimum
(Dinoflagellate)



Pseudo-nitzschia
australis (Diatom)



Pyrodinium
bahamense



Thalassiosira
nordenskiöldii
(Diatom)



Thalassiothrix
nitzschioides (Diatom)



flagellated
Dinoflagellate

Flora: Seagrass/SAV



Amphibolis antarctica



Amphibolis griffithii



Amphibolis with
epiphytes



Callitriche spp. (Water
Starwort)



Ceratophyllum
demersum (Coontail)



Cymodocea nodosa



Cymodocea rotundata



Cymodocea rotundata
seeds



Cymodocea serrulata
1



Cymodocea serrulata
2



Cymodocea serrulata
seeds



Deep water seagrass



Elodea canadensis
(Canadian
Waterweed)



Enhalus acoroides



Enhalus acoroides
seeds



Halodule uninervis



Halodule uninervis
seeds



Halodule wrightii
(Shoalweed)



Halodule wrightii
(Shoalweed) with fruit



Halophila australis



Halophila beccari



Halophila beccari
seeds



Halophila bullosa



Halophila capricorni



Halophila decipiens
(Caribbean Seagrass)
1



Halophila decipiens
(Caribbean Seagrass)
2



Halophila decipiens
(Caribbean Seagrass)
seeds



Halophila decipiens
(Caribbean seagrass)
with fruit



Halophila engelmannii
(Star Grass)



Halophila hawaiiiana



Halophila johnsonii
(Johnson's Seagrass)
1



Halophila johnsonii
(Johnson's Seagrass)
2



Halophila linearis



Halophila minor 1



Halophila minor 2



Halophila ovalis



Halophila ovalis
(Paddle weed)
with fruit



Halophila ovalis seeds



Halophila ovata



Halophila seed bank



Halophila spinulosa



Halophila spinulosa
seeds



Halophila stipulacea



Halophila stipulacea
seeds



Halophila tricostata 1



Halophila tricostata 2



Halophila tricostata
seeds



Heteranthera dubia
(Water Stargrass)



Heterozostera
tasmanica



Hydrilla verticillata
(Waterthyme) 1

Flora: Seagrass/SAV



Hydrilla verticillata
(Waterthyme) 2



Marsilea spp. (Water
Clover)



Myriophyllum
spicatum (Eurasian
Watermilfoil)



Najas guadalupensis
(Common Water
Nymph)



No propagule
colonisation



Nuphar spp. (Yellow
Waterlily)



Phyllospadix spp.
(Surfgrass)



Posidonia angustifolia



Posidonia australis



Posidonia coriacea



Posidonia oceanica
growing on matte



Posidonia oceanica
seedling 1



Posidonia oceanica
seedling 2



Posidonia sinuosa



Posidonia with
epiphytes



Potamogeton crispus
(Curly-leaf Pondweed)



Potamogeton
perfoliatus (Perfoliate
Pondweed)



Ranunculus aquatilis
(Common Water-
crowfoot)



Ruppia maritima fruits



Ruppia maritima
reproductive shoots



Ruppia maritima
vegetative shoots



Ruppia megacarpa 1



Ruppia megacarpa 2



Ruppia megacarpa
flower



Ruppia megacarpa
with flowers



Ruppia seed bank



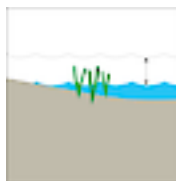
Seagrass



Seagrass habitat:
coastal



Seagrass habitat:
deep water



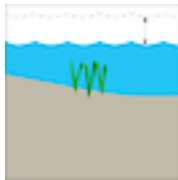
Seagrass habitat:
intertidal



Seagrass habitat: reef



Seagrass habitat:
rivers



Seagrass habitat:
subtidal



Seagrass leaf
recycling



Seagrass leaf with
Cladophora



Seagrass leaf with
encrusting epiphytes



Seagrass leaf with
epiphytes



Seagrass loss



Seagrass loss and
recovery



Seagrass meadow



Seagrass with
rhizome



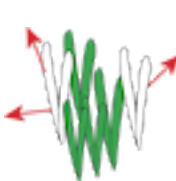
Seagrass: dead matte



Seagrass: detritus



Seagrass: grazer



Seagrass: growth



Seagrass: potential
habitat



Seagrass: propagule
colonisation



Seagrass: shallow
water



Stuckenia pectinata
(Sago Pondweed)



Syringodium filiforme

Flora: Seagrass/SAV



Syringodium
isoetifolium 1



Syringodium
isoetifolium 2



Syringodium
isoetifolium seeds



Thalassia hemprichii 1



Thalassia hemprichii 2



Thalassia hemprichii
seeds



Thalassia testudinum
(Turtlegrass)



Thalassodendron
ciliatum 1



Thalassodendron
ciliatum 2



Thalassodendron
pachyrhizon



Trapa natans (Water
Chestnut)



Vallisneria americana
(Wild Celery)



Water lily 1



Water lily 2



Zannichellia palustris
(Horned Pondweed)



Zostera asiatica



Zostera caespitosa



Zostera capensis



Zostera capensis
seeds



Zostera capricornii



Zostera capricornii
seeds



Zostera marina
(Common eelgrass)
with seeds



Zostera marina
(common eelgrass)



Zostera noltii

Flora: Trees/Shrubs/Vines



Acacia koa (Koa tree)



Acacia spp. (Acacia)



Acer Saccharinum
(Silver Maple)



Acer pensylvanicum
(Striped Maple)



Acer platanoides
(Norway Maple)



Acer pseudoplatanus
(Sycamore Maple)



Acer rubrum (Red
Maple) 1



Acer rubrum (Red
Maple) 2



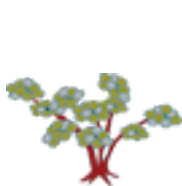
Acer rubrum (Red
Maple) leaf



Agave spp. (Agave)



Agave spp. (Agave)
with stalk



Arctostaphylos spp.
(Manzanita)



Arecaceae (Palm
Tree) 1



Arecaceae (Palm
Tree) 2



Arecaceae (Palm
tree) 3



Banksia spp.
(Banksia)



Banksia spp.
(Banksia) with proteid
roots



Banksia spp.
(Banksia) with
resprouting lignotuber



Batis maritima
(Pickleweed)



Berberis thunbergii
(Japanese Barberry)



Betula lenta (Sweet
Birch)



Betula nigra (River
Birch)



Betula spp. (Birch)



Calliandra spp. (Fairy
Duster)



Carnegiea gigantea
(Saguaro Cactus)



Carya glabra (Pignut
Hickory)



Carya ovata
(Shagbark Hickory)



Carya ovata
(Shagbark Hickory)
fruit



Carya ovata
(Shagbark Hickory)
leaves



Casuarina spp.
(Casuarina)



Cercis canadensis
(Eastern Redbud):
flowering



Cercis canadensis
(Eastern Redbud):
foliage



Chenopodium
oahuense (Aweoweo)



Chuquiraga
avellanedae
(Quilembay)



Chuquiraga hystrix



Clethra alnifolia
(Coastal
Sweetpepperbush)



Cocos nucifera
(Coconut Palm) 1



Cocos nucifera
(Coconut Palm) 2



Corymbia spp. (Ghost
Gum)



Damaged tree



Dead tree 1



Dead tree 2



Dead tree 3



Dead tree 4



Deer overbrowse:
shrub



Deer overbrowse: tree



Elaeagnus angustifolia
(Russian Olive)



Elaeagnus angustifolia
(Russian Olive)
leaves



Erythrina
sandwicensis (Wiliwili)



Erythrina spp. (Coral
Tree)

Flora: Trees/Shrubs/Vines



Eucalyptus
camaldulensis (River
Red Gum)



Eucalyptus spp.
(Eucalypt) 1



Eucalyptus spp.
(Eucalypt) 2



Eucalyptus spp.
(Eucalypt) 3



Fagus grandifolia
(American Beech)



Fagus grandifolia
(American Beech)
leaves



Fagus grandifolia
(American Beech)
with gray bark



Ferocactus wislizeni
(Fishhook Barrel
Cactus)



Fraxinus americana
(White Ash)



Fraxinus profunda
(Pumpkin ash)



Gaylussacia frondosa
(Dangleberry)



Generic orchid



Generic shrub:
temperate



Generic shrub:
tropical



Generic tree 1



Generic tree: fall



Generic tree:
rainforest 1



Generic tree:
rainforest 2



Generic tree:
rainforest 3



Generic tree: spring



Generic tree: summer



Generic tree: winter



Hedera helix (English
Ivy)



Hedera helix (English
Ivy) flower



Hedera helix (English
Ivy) fruit



Hedera helix (English
Ivy) leaf



Heteromeles
arbutifolia (Christmas
Berry)



Hydrangea
arborescens (Smooth
Hydrangea)



Ilex verticillata
(winterberry)



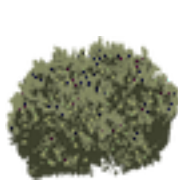
Intsia bijuga (Ifilele)



Ipomoea pes-caprae
(Beach Morning
Glory)



Jasminum sambac
(jasmine flower)



Juniperus monosperma (One-
seed Juniper)



Juniperus virginiana
(Eastern Red Cedar)



Juniperus virginiana
(Eastern Red Cedar)
leaves



Kalmia latifolia
(Mountain Laurel)



Kalmia latifolia
(Mountain Laurel)
flowers



Lantana camara
(West Indian Lantana)



Larrea tridentata
(Creosote Bush)



Leucaena
leucocephala (White
Leadtree)



Leucopogon spp.
(Beard Heath)



Lindera benzoin
(Spicebush)



Liquidambar
styraciflua
(Sweetgum)



Liriodendron tulipifera
(American Tulip Tree)



Lonicera maackii
(Amur honeysuckle)



Magnolia virginiana
(Sweetbay Magnolia)



Melaleuca cuticularis
(Saltwater Paperbark)
dying



Melaleuca
raphiophylla (Swamp
Paperbark)



Melaleuca spp. (Ti
Tree)



Melaleuca spp. (Ti
Tree) leaves

Flora: Trees/Shrubs/Vines



Merremia peltata



Miconia calvescens
(Bush Currant)



Morinda Citrifolia
(Indian Mulberry)



Myrica cerifera (wax
myrtle)



Nyssa biflora (Swamp
Black Gum)



Nyssa sylvatica
(tupelo or black gum)



Pandanus spp



Parthenocissus
quinquefolia (Virginia
creeper) 2



Picea glauca (White
Spruce)



Pinus echinata
(Shortleaf pine)



Pinus palustris
(Longleaf Pine)



Pinus ponderosa
(Ponderosa pine)



Pinus rigidus (Pitch
Pine)



Pinus spp. (Pine)



Pinus strobus
(Eastern White Pine)



Pinus taeda (Loblolly
Pine)



Pinus virginiana
(Virginia Pine)



Pisonia spp. (Pisonia)



Platanus occidentalis
(American Sycamore)
alternate



Platanus occidentalis
(American Sycamore)
with overhanging
branch



Populus balsamifera
(Balsam poplar)



Populus deltoides
(Eastern Cottonwood)



Populus tremula
(Aspen)



Pritchardia minor
(Loulou Palm)



Quercus alba (White
Oak)



Quercus alba (White
Oak) leaves



Quercus bicolor
(Swamp White Oak)



Quercus coccinea
(Scarlet Oak)



Quercus falcata
(Southern Red Oak)



Quercus macrocarpa
(Bur Oak)



Quercus montana
(Chestnut Oak)



Quercus montana
(Chestnut Oak) leaves



Quercus montana
(Chestnut Oak) with
roots



Quercus
muehlenbergii
(Chinkapin Oak)



Quercus palustris
(Swamp Spanish
Oak)



Quercus rubra
(Northern Red Oak)



Quercus spp. (Oak)
seedling



Rhus radicans
(Poison Ivy)



Rhus radicans
(Poison Ivy) leaf



Robinia pseudoacacia
(Black Locust)



Rosa multiflora
(Multiflora Rose)



Salix x sepulcralis
(Weeping Willow)



Santalum
freycinetianum
(Freycinet
Sandalwood)



Shepherdia argentea
(Silver Buffaloberry)



Spathodea
campanulata (African
Tulip)



Taxodium distichum
(Bald Cypress)



Taxodium distichum
(Bald Cypress) with
knees



Tilia americana
(Basswood)



Tsuga canadensis
(Eastern Hemlock)



Tsuga canadensis
(Eastern Hemlock)
branch

Flora: Trees/Shrubs/Vines



Tsuga canadensis
(Eastern Hemlock)
with roots



Vaccinium corymbosum
(Highbush blueberry)



Viburnum dentatum
(Arrowwood
Viburnum)



Xanthorrhoea spp.
(Grass Tree)



Yucca brevifolia
(Joshua Tree)



Yucca spp. (Yucca)

Human: Agriculture



Human: Agriculture



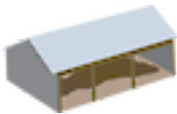
Maize/corn stalk



Manure composting bunker



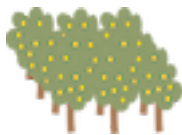
Manure export



Manure storage structure



Orange



Orchard



Papaya



Papaya tree



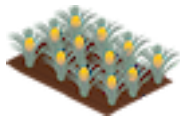
Pear



Pine plantation



Pineapple



Pineapple plantation



Rice 1



Rice 2



Seedling



Slaughterhouse/abattoir



Soybean oil



Soybeans



Sugarcane



Sugarcane plantation



Sweet potato plantation



Sweet potato plot



Taro



Taro 2



Taro plantation



Taro plot



Tractor 1



Tractor 2



Tractor 3



Tractor 4



Tractor 5



Vine crop



Wheat



Wheat kernels



Wheat sheath



Winter crop

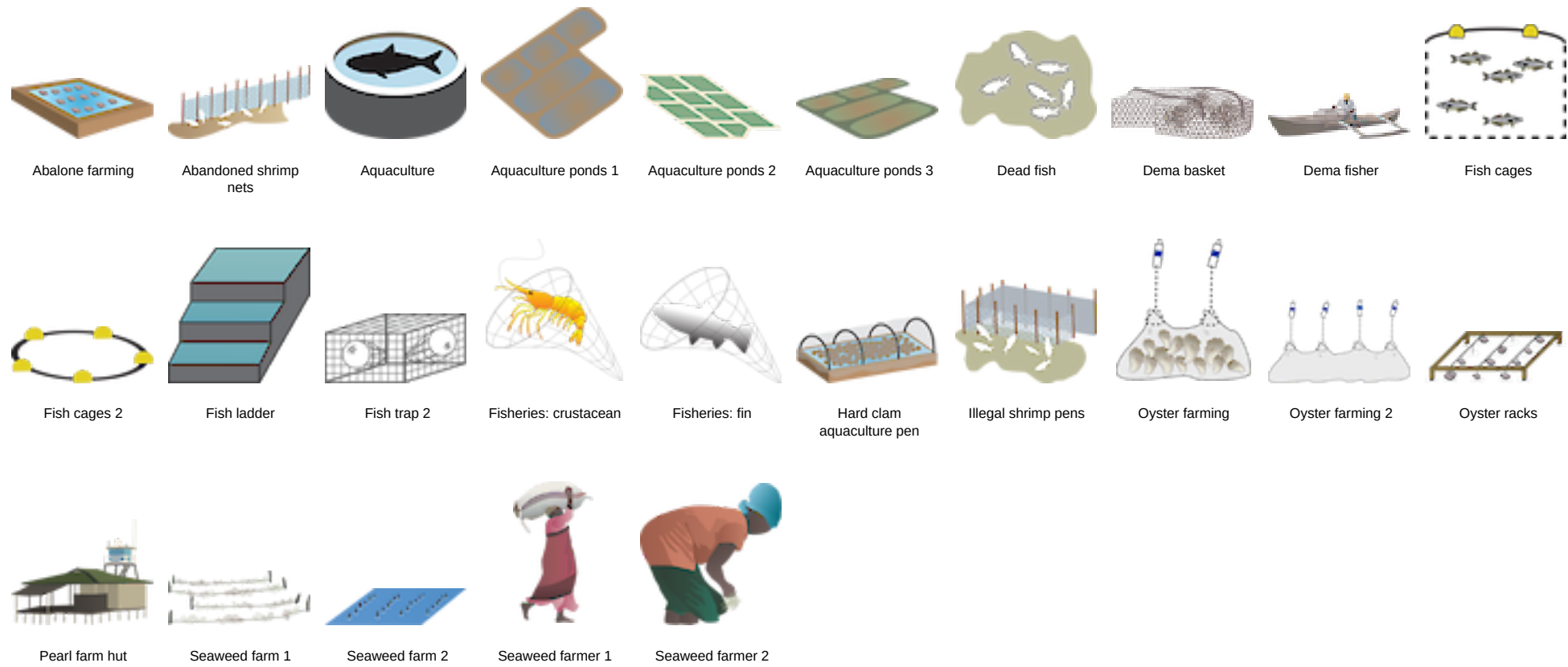


Wood-split fencing 01



Wood-split fencing 02

Human: Aquaculture



Human: Climate Change



Climate change:
above average
temperatures



Climate change:
below average
temperatures



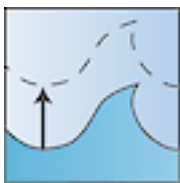
Climate change:
drought



Climate change:
ghost forest



Climate change: heat
wave



Climate change: sea-
level rise



Climate change:
wildfire

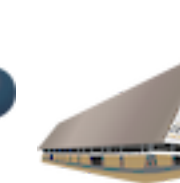
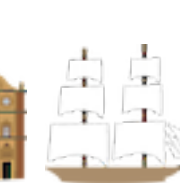
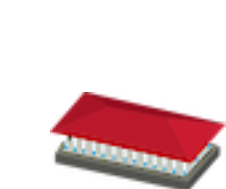
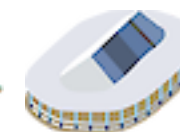
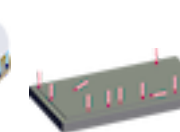


Flooding



Increased CO2
emissions map

Human: Culture/Archaeology

									
American cowboy	Archaeological site	Archaeologist: female	Archaeologist: male	Artifact: axe blade	Artifact: beads	Bai (Palauan meeting place)	Basilica of Bom Jesus	Brigantine	Cannon
									
Cave explorer	Chamorro canoe	Coastal toilet 1	Coastal toilet 2	Cultural Odisha graphics	Currency: dollar sign	DC Capitol building	DC Washington Monument	Dreamcatcher (Native American Ojibwe)	Fale 1 (Samoa)
									
Fale 2 (Samoa)	Fale 3 (Samoa)	Fale 4 (Samoa)	Fale 5 (Samoa)	Fale 6 (Samoa)	Fale: Tsunami damaged (Samoa)	Fale: enclosed 1 (Samoa)	Fale: enclosed 2 (Samoa)	Fale: enclosed 3 (Samoa)	Fale: enclosed 4 (Samoa)
									
Fale: traditional (Samoa)	Family	Feather	Fishing village (Indonesia)	Flag: Australia	Flag: Australia Queensland	Flag: USA Hawaii	Flag: USA Hawaii Kanaka Maoli	Flag: USA Maryland	Flag: United Kingdom
									
Flag: United States of America	Footprints	Fort Union	Gleaning basket	Gullah sweetgrass basket	Halau (Hawaiian long house)	Hawaiian Royalty Headdress	Hawaiian double-hulled canoe (wa'a kaula)	Heiau (Hawaiian temple)	Hibiscus Flower

Human: Culture/Archaeology



Ki'i (Hawaiian war god)



Lawn Mower



Maryland State House



Mathematics: Pi



Metrosideros Polymorpha (Hi'a Lehua)



Monument 1



Monument 2



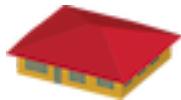
Music: eighth notes 1



Music: eighth notes 2



Outrigger canoe 4



Palagi house (Samoa)



Palau Storyboard: 1



Palau Storyboard: 2



Palau Storyboard: 3



Palau Storyboard: 4



Palau Storyboard: 5



Petroglyph: (Hawaiian Honu)



Pueblo Homes



Pyramid 1



Pyramid 2



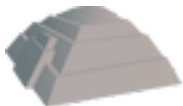
Religion: Christian cross



Samoan canoe



Shipwreck



Step pyramid 1



Step pyramid 2



Stilt house (Indonesia) 1



Stilt house (Indonesia) 2



Stilt house (West Papua)



Storyteller



Sydney Opera House



Tipi/Teepee (Plains Indians)

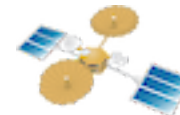
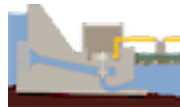
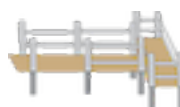


Totem pole (First Nations)



Trading keelboat

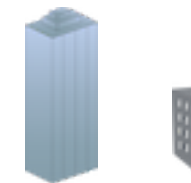
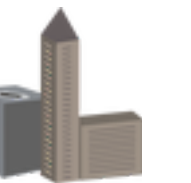
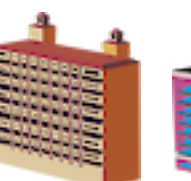
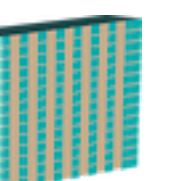
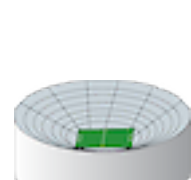
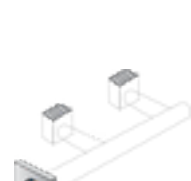
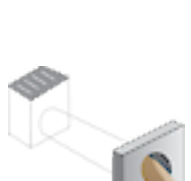
Human: Development/Infrastructure

									
Amphitheater	Amphitheater 2	Bridge: Sydney Harbour	Bridge: arched	Bridge: suspension	Caribbean house	Cemetery	Civil Engineering: Cross vane weir	Civil Engineering: Flow deflector (J-hook Vane)	Civil Engineering: bulkhead
									
Civil Engineering: mosquito ditches	Civil Engineering: riprap	Communications: cell phone tower 1	Communications: cell phone tower 2	Communications: radio tower	Communications: satellite 1	Communications: satellite 2	Communications: satellite 3	Communications: satellite 4	Communications: satellite dish
									
Communications: satellite dish 2	Concrete bollard	Construction: bulldozer	Construction: crane	Construction: earthworks	Construction: excavator	Construction: house-frame	Energy: high voltage power stanchions	Energy: hydro power station	Energy: hydroelectric dam
									
Energy: hydroelectric plant	Energy: hydroelectric turbine	Energy: nuclear power station	Energy: nuclear reactor	Energy: power line	Energy: power station	Energy: renewable energy icon	Energy: solar panel	Energy: solar panels 2	Energy: solar panels 3
									
Energy: wind turbine 1	Energy: wind turbine 2	Factory	Favela in Brazil	Freight: port crane 1	Jetty	Jetty 2	Jetty 3	Lighthouse 1	Lighthouse 2

Human: Development/Infrastructure



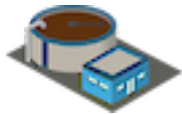
Human: Development/Infrastructure

									
Urban: church 3	Urban: church 4	Urban: city 1	Urban: city 2	Urban: city building 01	Urban: city building 02	Urban: city building 03	Urban: city building 04	Urban: city building 05	Urban: city building 06
									
Urban: city building 07	Urban: city building 08	Urban: city building 09	Urban: city building 10	Urban: city building 11	Urban: condo	Urban: condo 2	Urban: condo 3	Urban: condo 4	Urban: condo 5
									
Urban: downtown (Fiji)	Urban: green building	Urban: green roof 1	Urban: green roof 2	Urban: green roof 3	Urban: high-rise building	Urban: parking garage	Urban: parking lot	Urban: public toilet	Urban: row houses
									
Urban: stadium	Urban: townhouse (Asian)	Urban: warehouse	Waste management: compost bin	Waste management: landfill	Water: Biodigester	Water: dam 1	Water: dam 2	Water: dam 3	Water: desalination plant
									
Water: drainage 1	Water: drainage 2	Water: drinking water treatment plant 1	Water: municipal well	Water: septic system	Water: septic system 1	Water: septic system 2	Water: septic truck icon	Water: sewage pumping station	Water: sewage treatment plant 1

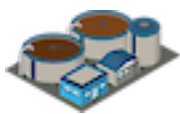
Human: Development/Infrastructure



Water: sewage
treatment plant 2



Water: sewage
treatment plant:
primary



Water: sewage
treatment plant:
tertiary



Water: water pipe 1



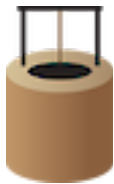
Water: water pipe 2



Water: water tower



Weir

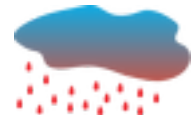
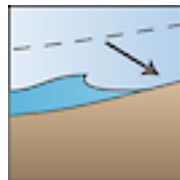


Well

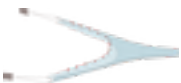
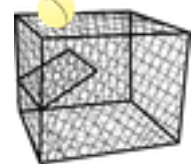
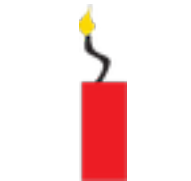
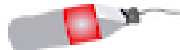
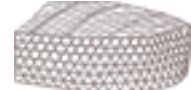
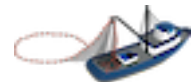
Human: Education



Human: Environmental Degradation

									
Acid rain	Air quality: high	Air quality: low	Air quality: medium	Balloon	Bottle cap	Chip bag	Cigarette	Landfill	Lawn Fertilizer Spreader
									
Man-made microdebris	Noise	Oil spill	Old bottle	Old tires	Overfishing	Plastic bag 1	Plastic bag 2	Plastic bottle 1	Plastic bottle 2
									
Plastic bottle 3	Receding shoreline	Roadside trash	Rusty drum	Skull and crossbones	Soda can	Vessel strike of marine mammal			

Human: Fishing

									
Bamboo hand spear	Bamboo speargun	Benthic Otter Trawl	Benthic Trawler	Benthic Trawling	Chicken necking	Clammer	Crab boat	Crab pot	Crab pot buoy
									
Crab scraping	Cyanide fishing boat	Cyanide fishing: squeeze bottle	Double-hulled fishing boat (Samoa)	Dynamite fishing	Dynamite fishing: Molotov cocktail	Dynamite fishing: explosion	Fish aggregating device	Fish trap 1	Fish trap 2
									
Fishery	Fly fishing lure	Ghost net	Indonesian zone marker	Liftback net	Line Fisher, Indonesia	Longline tuna boat	Man fishing	Mothership	Net fisher
									
Net fishers	Net fishers (India)	Net fishers with six crew members	Outrigger canoe (Samoa)	Outrigger canoe 1	Outrigger canoe 2	Outrigger canoe 3	Prawn trawler	Purse Seine	Reef fishing hut
									
Seasonal fishing closure sign	Seining	Shellfish Fishery	Shrimp Fishery	Skipjack	Trap fishers	Trawler boat	Trawler boat 2	Trotlining	Waterman

Human: Forestry



Forestry worker



Logging



Logging 2



Logging 3



Logging 4



Logging truck

Human: Management/Restoration



Anchor damage management



Archaeological site management



Avalanche control



Backcountry management



Biodiversity Hot Spot



Bioindicators



Blue crab management



Coastal zone management



Defense force lands



Degraded water quality



Economic indicators



El Nino Southern Oscillation management



Exotic plant management: crew member



Fertilizer ban icon



Fire management



First nations management (Canada)



Fisheries management



Fishing moratorium



Forestry management



Government 1



Government 2



Habitat management



Human access management



Immigration control



Indigenous management (Australia)



Indigenous management (Kuna, Panama)



Indigenous management (New Zealand)



Indigenous management (USA)



International obligations and treaties



Introduced species management



Kyoto protocol



Lawn fertilizer icon



Legislative initiative icon



Linking science and management



Marine Access Limited



Marine protected area



Marsh restoration



Money symbol



Next steps



No take zone



Oyster restoration



People icon



Poorly understood systems



Port authorities



Rain barrel icon



Recycling bins



Regional level initiatives



Restoration: boy with shovel



Restoration: girl planting tree



Restoration: man planting tree

Human: Management/Restoration



Restoration: planting trees



Saltwater intrusion



Seagrass restoration



State level planning initiatives



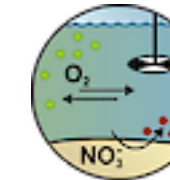
Toolbox



Volunteer



Water quality



Water quality management



Water resource management

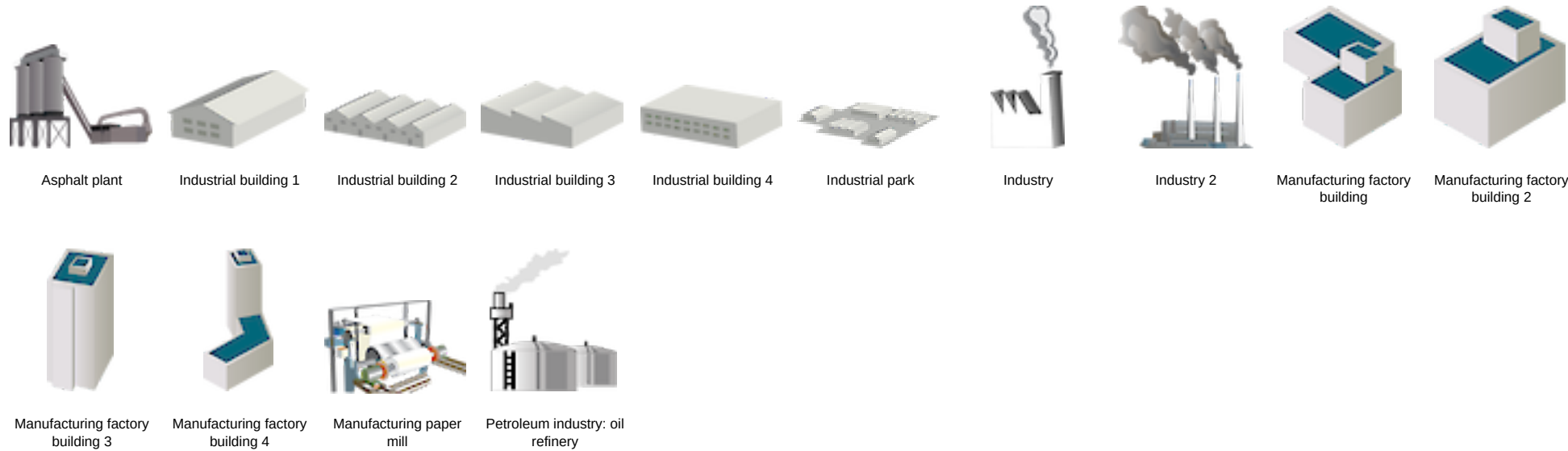


Watershed management



Yard waste icon

Human: Manufacturing/Refining



Human: Mapping/Navigation



Buoy: midchannel, safe



Buoy: port, lighted



Buoy: starboard, lighted



Can buoy: port



Can buoy: starboard



Canadian autoroute sign



Cardinal marker: east



Cardinal marker: north



Cardinal marker: south



Cardinal marker: west



Channel buoy: midchannel, light



Channel buoy: midchannel, no light



Channel buoy: port



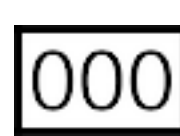
Channel buoy: starboard



County highway sign



County highway sign 2



County highway sign 3



Divers flag, USA



Divers flag, alfa flag international



Interstate 17 sign



Interstate highway sign



Interstate highway sign 2



Interstate highway sign 3



Interstate highway sign 4



Lateral marker: USA, port



Lateral marker: USA, starboard



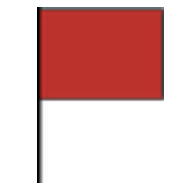
Lateral marker: international port



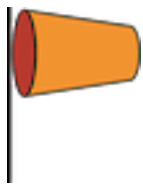
Lateral marker: international, starboard



Lifeguard flag: Australia, safe to swim between flags



Lifeguard flag: UK, danger no swimming



Lifeguard flag: UK, no inflatables



Lifeguard flag: UK, surf craft only



Lifeguard flag: UK, swim in designated areas



North Arrow 1



North Arrow 2



North arrow 3



Nun buoy: port



Nun buoy: starboard



Regulatory marker: danger



Regulatory marker: keep out



Regulatory marker: speed limit



Scale bar



Scale bar: kilometers vs miles



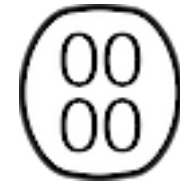
State highway sign



State highway sign 2



State highway sign 3



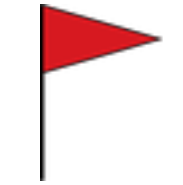
State highway sign 4



Storm warning: gale



Storm warning: hurricane



Storm warning: small craft advisory

Human: Mapping/Navigation



Storm warning: storm whole gale



Trans-Canada highway sign



U.S. highway sign



U.S. highway sign 2



U.S. highway sign 3

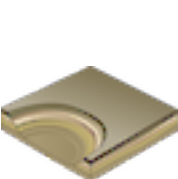


U.S. highway sign 4



U.S. highway sign 5

Human: Mining

									
Arctic Drilling	Blowout Preventer	Deep sea mining: bulk cutter	Deep sea mining: seafloor mining tool	Deep sea mining: support vessel	Dredge	Dredge 2	Dredge 3	Mine drainage	Mining: hammer and chisel
									
Mining: open cut mine	Oil Derrick	Oil Spill Containment	Petroleum industry: mining truck	Petroleum industry: oil rig	Petroleum industry: oil rig platform 1	Petroleum industry: oil rig platform 2	Petroleum industry: oil tanker	Quarry mining	Saltworks

Human: Other



Alarm clock



Anchor



Beach chair



Boots



Bricks



Bucket



Camping lantern



Chisel



Climbing/caving helmet with headlamp



Clipboard



Coffee cup



Cooler 1



Cooler 2



Dishwasher



Drinking water



Drip torch



Firewood



Flag



Garden hose



Hand pruners



Hourglass



Internet



Ladder



Light bulb



Magnifying glass



Magnifying glass



Mason jar



Medical caduceus



Mooring



Ointment



Padlock



Pet waste station



Playing cards



Portable generator



Puzzle



Reduce Reuse
Recycle



Restroom



Rifle



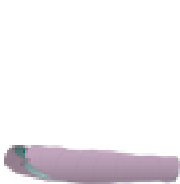
Rope coil



Scissors



Scroll



Sleeping bag



Spade



Spray bottle



Tape measure



Weighing scales 1



Weighing scales 2



Wooden sign



Work glove

Human: Recreation



ATV with rider



Beach umbrella



Bird watcher



Birder



Boston Whaler motorboat



Camper



Campfire



Canoeing



Child swimmer



Dive boat



Ecotourism



Fishing



Fishing boat



Fishing hook



Golf course



Golfer



Hiker: overnight



Hot air balloon 1



Hot air balloon 2



Houseboat



Hunter



Jet ski



Jet skiing



Kayaking



Kayaking: recreational



Lead Mule



Little blue dune buggy



Man tubing



Mountain biking



Picnic table



Powerboat



Race track or horse breeding facility



Racing speedboat



Rock climbing



Sailboat 1



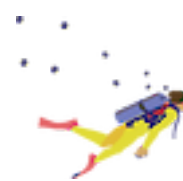
Sailboat 2



Sailboat 3



Scuba diver



Scuba diver 2



Scuba diver 3



Shore fishing



Skiing



Snorkelling: child



Snorkelling: woman



Snowman



Snowman: melted



Snowmobile with rider



Sunbathing

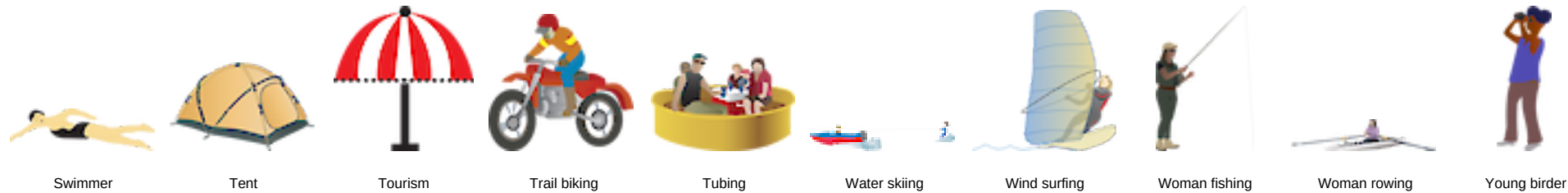


Surf Fishing



Surfing

Human: Recreation



Human: Science/Research



Anemometer



Aquarium airstone



Aquarium tank



Aquarium tank from top



Aquarium tank from top 2



Aquarium tank with mesh and airstone



Artificial light



Auto analyzer



Autosampler



Autotrophic system experiment



Beaker



Bioassay bag



Box corer



Buoy



Buoy 2



Canopy crane



Chemostat



Chesapeake Bay Observing System (CBOS) buoy



Clipboard



Clipboard icon



Compound microscope



Computer



Computer 2



Computer 3



Container



Continuous plankton recorder



Core logger



Current meter



Current meter with flag



DNA sequencing gel



DNA strand 1



DNA: strand 2



DNA; amplification of sequence



Deepwater research station



Drone



Drying oven



Electron microscope



Erlenmeyer flask



Field researcher



Field station



Filtering sample



Filtration: manifold



Filtration; pigment analyses



Filtration; total suspended solids analyses



Floating grow-out units



Floating solar-powered transmitter



Fluorometer



Flux tower

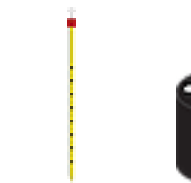
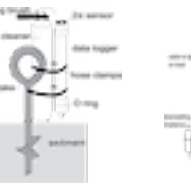
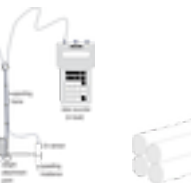
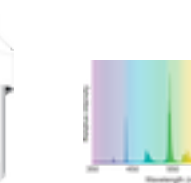
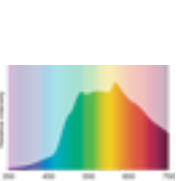
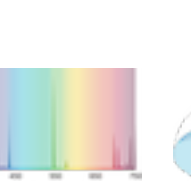
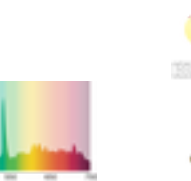
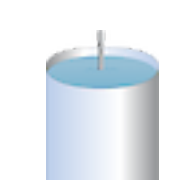
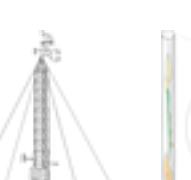


Geological hammer

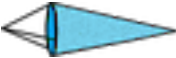
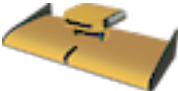
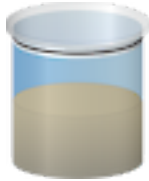
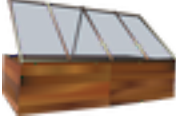


Image sensor

Human: Science/Research

									
Incubation chamber	Jar	Javelin sensor	Licor profiler unispec spectrometer	Light logger diagram	Light meter	Light: fluorescent bulb	Light: fluorescent bulb 2	Light: fluorescent bulb 3	Light: fluorescent spectra
									
Light: incandescent bulb	Light: incandescent spectra	Light: mercury bulb	Light: mercury spectra	Light: mercury vapor bulb	Light: metal halide bulb	Light: metal halide spectra	Macroalgal incubation setup	Macroalgal incubation setup 2	Mass spectrometer
									
Mass spectrometer 2	Measuring cup: full	Measuring cup: half	Measuring cup: low	Measuring secchi depth	Measuring secchi depth 2	Mesocosm 1	Mesocosm 1 cutaway	Mesocosm 2	Mesocosm 2 cutaway
									
Mesocosm 3	Mesocosm 3 cutaway	Mesocosm 4	Mesocosm 4 cutaway	Meteorological tower	Microcapillary tube	Microscope	Monitoring: beach topography	Monitoring: biologist bird-watcher	Monitoring: deer population count
									
Monitoring: salt marsh nekton survey	Monitoring: surface elevation table	Mortar and pestle	Mortar and pestle 2	Net	Ornithologist	Petri dish	Petri dish with lid	Piezometer	Piling with solar powered light

Human: Science/Research

									
Plankton net	Portable sub-bottom profiling system SB-216S	Radioactive thymidine $^3\text{H-TdR}$	Radiometer	Ramses spectrometer	Ramses spectrometer 2	Research Snorkeller	Research vessel	Research vessel 2	Rotary sonar tripod
									
Satellite-tracked drifter	ScanFish	Science report icon	Scientist studying fish	Scientist using laptop computer	Secchi disk	Sediment and water core	Sediment grab	Sediment incubator	Sediment trap
									
Spectrophotometer	Syringe	Syringe cutoff	Tap	Test tubes	Test tubes 2	Thermally powered submersible glider	Tower receiver	Tsunami sensor and transmitting buoy	Turtle egg relocation box
									
Turtle nest anti-predatory cage	Undersea habitat	VIMS Fetch autonomous underwater vehicle	Warning buoy	Water sampler					

Human: Services



Business colleagues



Business: group presentation



Business: man sitting 1



Business: man sitting 2



Business: man sitting 3



Business: planning meeting



Business: woman sitting 1



Business: woman sitting 2



Fire and rescue: fire engine



Fire and rescue: fire station



Fire management: crew member with drip torch 1



Fire management: crew member with drip torch 2



Health care industry: red cross



Hospitality: casino



Hospitality: cruise ship



Hospitality: eco-resort



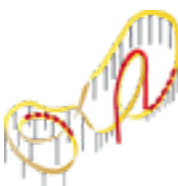
Hospitality: ferris wheel



Hospitality: flight attendant



Hospitality: liveaboard dive boat



Hospitality: roller coaster



Hospitality: seafood restaurant



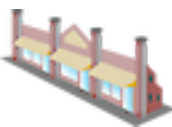
Hospitality: tourism resort



Hospitality: visitor center



Management



Retail: Strip mall



Retail: corner store



Retail: downtown shopping center



Retail: fish market



Retail: gasoline pump



Road salt truck



Wildlife rehabilitation center

Airplane (simple 2d)	Aviation: airliner and runway	Aviation: airport	Aviation: airport terminal	Aviation: helicopter	Aviation: light aircraft 1	Aviation: light aircraft 2	Boat: Ngalawa (traditional Swahili boat)	Boat: dinghy	Boat: powerboat
Freight: cargo ship 1	Freight: cargo ship 2	Freight: cargo ship 3	Freight: cargo ship 4	Freight: freight train	Freight: lake freighter	Freight: port 1	Freight: port 2	Freight: port crane 2	Freight: port with cargo ship
Freight: semi-trailer truck	Hospitality: Cruise Ship 2	Local water transport (India)	Military: armored tank	Military: naval destroyer	Public transport: Ferry (Indonesia)	Public transport: bus	Public transport: gondola	Public transport: metro train	Public transport: school bus
River barge	Tour boat (India)	Vehicle: 4WD	Vehicle: SUV	Vehicle: campervan	Vehicle: dump truck	Vehicle: minivan	Vehicle: motorcycle with one rider	Vehicle: motorcycle with two riders	Vehicle: pickup truck
Vehicle: sedan	Vehicle: subcompact car								

Vehicle: subcompact
car

Processes: Biological



Biodiversity: algae



Biodiversity: invertebrates



Bioturbation



Concentration; high chlorophyll



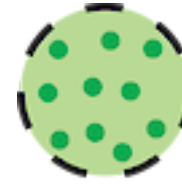
Concentration; high dissolved organic carbon



Concentration; high particulate organic carbon



Concentration; high phytoplankton



Concentration; intermittent chlorophyll



Concentration; intermittent dissolved organic carbon



Concentration; intermittent particulate organic carbon



Concentration; intermittent phytoplankton



Concentration; low chlorophyll



Concentration; low dissolved organic carbon



Concentration; low particulate organic carbon



Concentration; low phytoplankton



Evapotranspiration



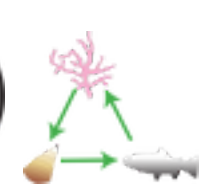
Evapotranspiration; reduced



Food webs; detrital 1



Food webs; detrital 2



Food webs; grazing 1



Food webs; grazing 2



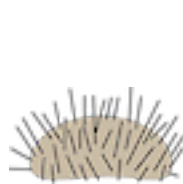
Grazing; Dugong



Grazing; Reef fish



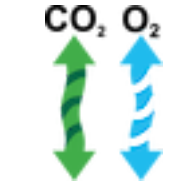
Grazing; Turtle



Grazing; Urchin



Photosynthesis



Photosynthesis/Respiration



Phytoplankton bloom/crash



Process; (x = element) in



Process; (x = element) out



Process; ammonification



Process; calcification



Process; calcium dissolution



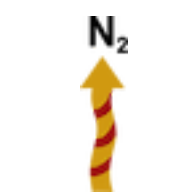
Process; calcium in



Process; calcium out



Process; denitrification 1



Process; denitrification 2



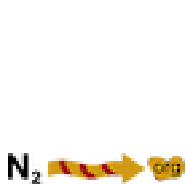
Process; iron in



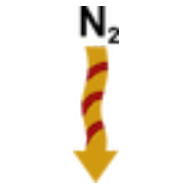
Process; iron out



Process; nitrification



Process; nitrogen fixation 1



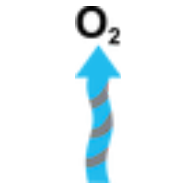
Process; nitrogen fixation 2



Process; organic carbon release



Process; oxygen in



Process; oxygen out



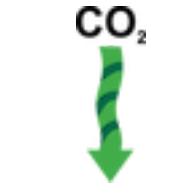
Process; phosphate remineralization



Process; phosphorus in



Process; phosphorus out

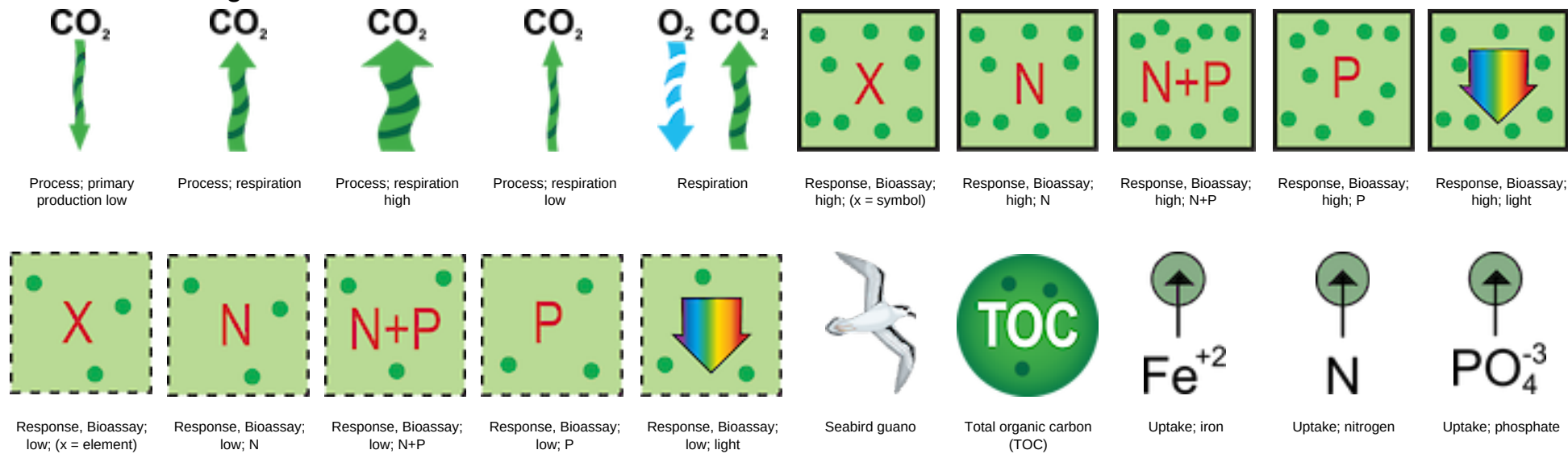


Process; primary production

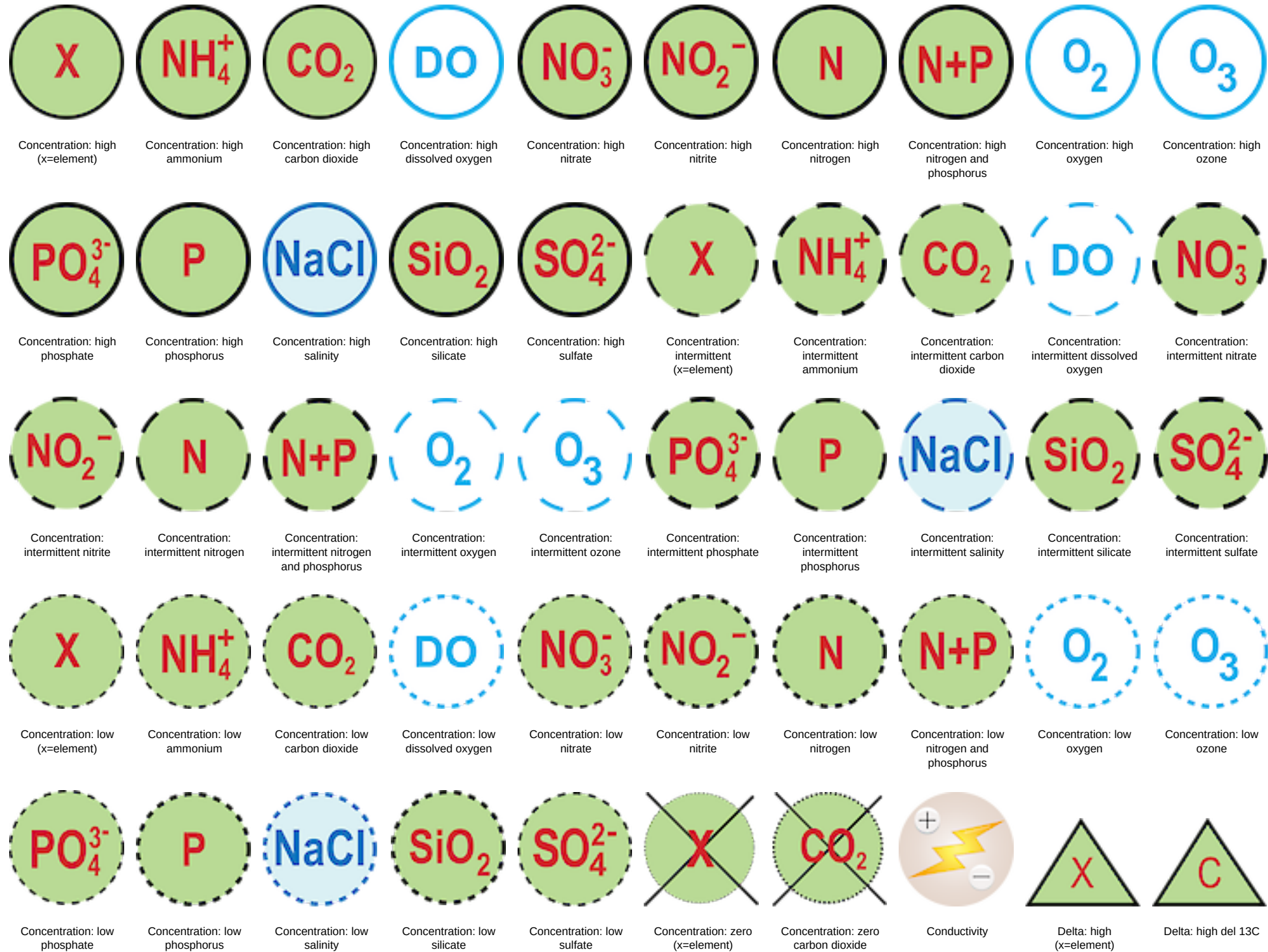


Process; primary production high

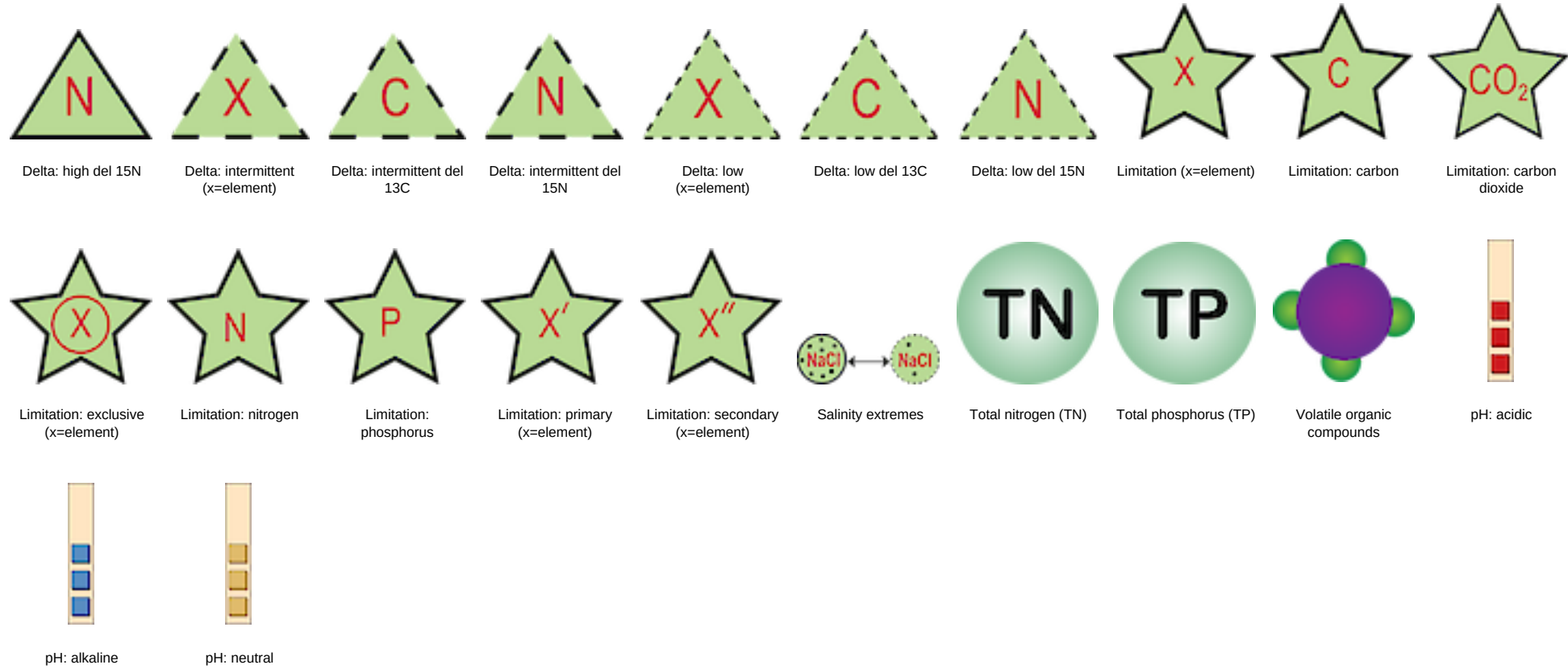
Processes: Biological



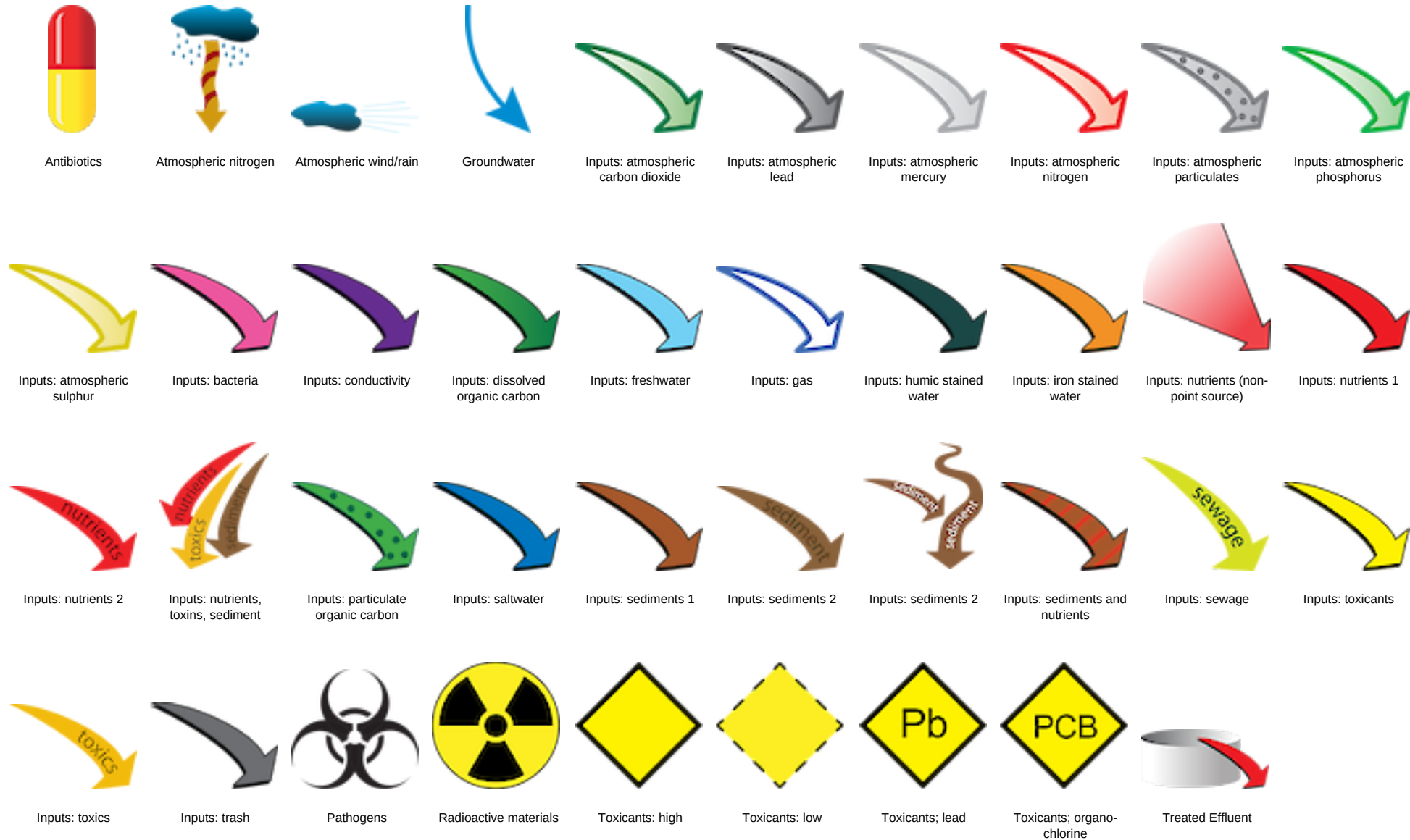
Processes: Chemical



Processes: Chemical



Processes: Inputs/flows



Processes: Modifiers

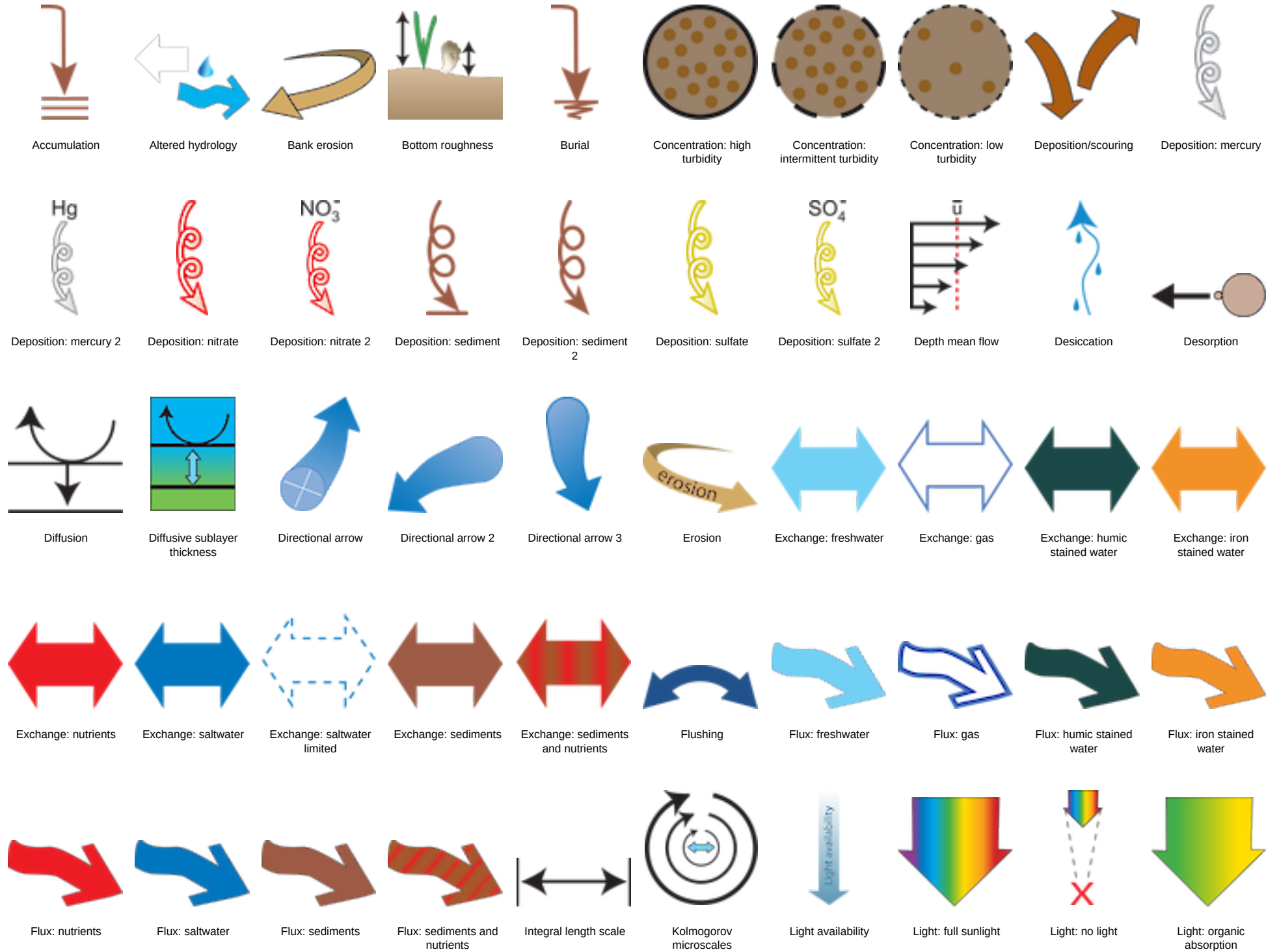


Certainty Dynamic Female symbol High certainty High uncertainty Infinity symbol Introduced species Introduced species 2 Male symbol Negative cross



Positive check mark Potentially negative Potentially positive Uncertainty Uncertainty 2

Processes: Physical



Processes: Physical



Light: water absorption deep



Light: water absorption shallow



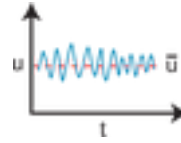
Limitation: diffusion



Limitation: hydrodynamic



Limitation: light



Mean flow speed



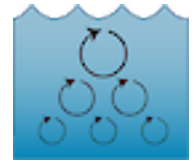
Mixing



Mixing time



Precipitation



RMS (root mean square) turbulence intensity



Reaction time



Residence time: long



Residence time: short



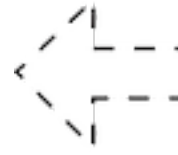
Reynolds number



Salinity gradient



Sediment



Sediment movement



Sediment resuspension



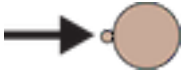
Sediment resuspension 2



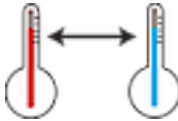
Sediment suspension



Shear velocity



Sorption



Temperature variation



Temperature: high



Temperature: low



Temperature: moderate



Temperature: very high



Tide



Tide: astronomical



Tide: meteorological



Transport: dissolved organic carbon



Transport: freshwater



Transport: gas



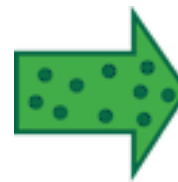
Transport: humic stained water



Transport: iron stained water



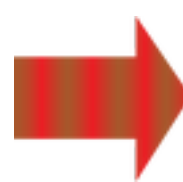
Transport: nutrients



Transport: particulate organic matter



Transport: saltwater



Transport: sediment and nutrients



Transport: sediments



Turbulent eddy



Turbulent energy dissipation rate



Upwelling



Wake turbulence

Prokaryotes and Viruses: Bacteria/cyanobacteria/archaea



Acinetobacter spp.
(Bacteria)



Anabaena



Archaea



Bacterium



Bacterium with
prophage



Bacteroidetes



Coccoid bacterium



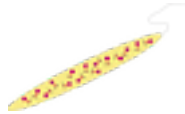
Cyanobacteria



Cyanobacterial mat



Escherichia coli



Infected bacterium



Jannaschia spp



Lyngbya majuscula



Nodularia spp



Synechococcus spp

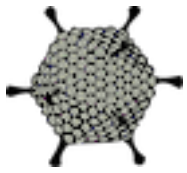


Trichodesmium spp



sigmoid bacterium

Prokaryotes and Viruses: Viruses



Adenovirus



Virus



Virus inserting DNA