

An Educational Poster of Marine Life Prepared by Dr. Nigel Thomas, with the collaboration of the watersports team of SUGAR BEACH

Hi, my name is Julie Sugar. live in the sea off Sugar Beach resort. I am going to take you on a tour of some of the species you can find there. Your teacher has a set of questions to test you at the end! But first I want to tell you about my name.

WHAT'S IN A NAME. My species has a "common name", which is Sergeant Major, but because common names vary in different places and with different languages, I also have a "scientific name", which is Abudefduf saxatilis, and this stays the same everywhere. The scientific name is normally in latin and in my case means, "The one with prominent sides, living among rocks!". I think I prefer Julie Sugar! The names given here are both Common and Latin

ECHINODERMS. Unlike the corals, worms and sponges, the Echinoderms generally move around to catch their food, although most of them do so very slowly. The Echinoderms include several strange looking groups of species, such as; Starfish, which you all know about; Sea Urchins, with their prickly spines; and the rather unattractive Sea Cucumbers, which spend all their time vacuuming up sediments to eat. Most of these species stay hidden during the day but emerge to feed during the night

Long-Spined Urchins.

Diadema antillarum.



Striped Sea Star

Luidia clathrata







Slate Pencil Urchin. Eucidaris tribuloides. West Indian Sea Egg. Tripneustes ventricosus. Three-Rowed Sea Cucumber.

DANGEROUS FISH SPECIES. There are a few dangerous fish species

in the area. They are dangerous because they can sting you with their poisonous

spines. They can also be well disguised with seaweed like camouflage. If you see

Isostichopus badionotus. Astichopus multifidus.

CORALS. One of the most important groups of species at the resort, and the rest of the world in fact, are the corals. Some of these corals take hundreds or even thousands of years to grow into reefs. They are particularly at risk from changes in water temperature, because they exist in cooperation with microscopic alga (seaweed), which live in their cells and which provide them with energy during the day. If the water gets too hot the algae can die and the coral dies as well. Climate change is a major cause of temperature change in the world's seas



?porites. Yellow Pencil Coral Madracis mirabilis.

WORMS. It may surprise you but some of the most colourful species are worms. These are not the same as the slippery creatures you can find in the ground, as they have spectacular crowns of tentacles, used for feeding and respiration, often in brilliant colours. They can be difficult to see however, as they are afraid of shadows, and quickly retreat into their tube-like home if disturbed



Magnificent Feather Duster.

Sabellastarte maanifica.

Channel Clinging Crab.

Mithrax spinosissimus.







Social Feather Duster

Bispira brunnea.

Christmas Tree Worm. Spirobranchus aiaanteus,

SHRIMPS, CRABS AND LOBSTERS. Like the Echinoderms the Crustacea (apart from the barnacles) have to move to catch their food, they can't wait for it to come to them. The shrimps, crabs and lobsters are a good example of this, as they have to catch their food using their claws and mobile mouthparts. They are generally "Omnivores", which means they will eat anything they can, including plants, other crabs and shrimps and, even little fishes like Julie Sugar



Banded Coral Shrimn Caribbean Spiny Lobster. Stenopus hispidus middle Panulirus araus. leg modified as a claw





Echidna catenata.

fish that are sleek in shape and very fast swimming. They are also coloured silver which makes them almost invisible in the blue water



Blennes highs.

ANIMALS WITH TENTACLES. Corals, soft corals (including seafans) and anemones have tentacles, which they extend to catch small animals that swim in the water. Many of these species do this in the dark, so they may be rather dull during the day but are very colourful at night.





Sun Coral Tubastrae Common Sea Fan coccinea. An introduced Gorgonia ventalina species from the Indo-Pacific.

Banded Tube Dwelling Anemone Isarachnanthus nocturnus

SPONGES are some of the biggest species in the resort area They are also one of the most diverse groups with over 30 species recorded. The biggest of all the sponges at Sugar Beach is called the Giant Barrel Sponge, almost 2m high. Sponges also have some of the strangest shapes, including barrels, tubes, dish shaped, ropelike, round balls and encrusting. One species, known as the Red Boring Sponge is also very unusual, not because it is boring, but because it secretes acid to bore into the rock





Giant Barrel Sponge. Xestospongia muta

Azure Vase Sponge. Red Boring Sponge Cliona delitrix. Callyspongia plicifera.

MOLLUSCS. All of the species shown on this poster, apart from the fish, are known as invertebrates, because they have no backbone. The final group of species of this type are the Molluscs. Many of these move very little, such as limpets. bivalves and winkles, but other are very fast swimmers and often chase and catch other species in mid-water, including fish. These fast swimmers include cuttlefish, squid and octopus. Most of these species can also change colour to hide and swell up to make themselves look bigger, to scare predators away.







The Caribbean Reef Souid Caribbean Reef Souid. Sepioteuthis sepioidea. at night, is transparent.

Octopus vulgaris, in an agitated state





Spotfin Butterflyfish. Chaetodon ocellatus







Longfin Squirrelfish Holocentrus rufus

Foureye Butterflyfish. Whitespotted Filefish Chaetodon canistratus Cantherhines macrocer



ODD SHAPES. Many different shaped fish can be found at Sugar Beach ranging

from fish with large fins, flat fish, box shaped fish, trumpetfish and round Ballonfish. The Ballonfish is even able to change shape by puffing itself up to scare away predators



punctatus, with an

Peacock Flounder. Bothus Smooth Trunkfish. Jungtus, Elat fish that blends Jactophrys trigueter, Box in by changing colour shaped with a pointed shout



Acanthostracion polygonia.

A box shape with horns on

its head.

Balloonfish, Diodon Trumpetfish. holocanthus, covered in

Aulostomus maculatus. with a trumpet shaped sharp spines snout

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them just keep away, they won't chase after you!

they grow older. The Yellowtail Damselfish is a good example as it is covered in electric blue dots when it is young, which it loses when it is mature. The Longfin Damselfish is another example as this is a brilliant vellow when young but turns a dull brown/black colour when adult. Other fish change colour at different times. When the adult males of the Sergeant Major guard their eggs they are coloured blue







Spotted Moray

Chain Moray.

Gymn othorax miliaris



OPEN WATER FISH. The open waters around Sugar Beach are populated by

Sphyraena barracuda