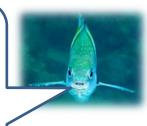


An Educational Poster of Marine Life Prepared by Dr. Nigel Thomas, with the cooperation of the Grand Roatan Resort

Hi, my name is Julie Sugar. live in the sea off the Grand Roatan Resort. I am going to take you on a tour of some of the species you can find there. Attached is 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 probably know about, although few were found in West Bay; 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



West Indian Sea Egg.

Slate Pencil Urchin. Fucidaris tribuloides



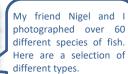


Reef Urchin



Tiger Tail Sea Cucumber.

Donkey Dung Sea Cucumbe Holothuria mexicana



ODD SHAPES. Many different shaped fish can be found off Grand Roatan Resort ranging from flat fish, box shaped fish, fish with spines, trumpetfish and tiny blennies living in tubes inside a sponge. Although tiny the blennies often have the longest names





Typical pose of the Porcupinefish. Diodon hystrix. Hiding under an



Scrawled Filefish Aluterus Peacock Flounder, Bothus scriptus. Often swim in lunatus. Flat fish that blends Lactophrys triqueter. Box in by changing colour



Trumpetfish. Aulostomus maculatus, with a trumpet shaped snout.



Smooth Trunkfish.



spinosa. Very small with a seaweed wig!

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



Pternis miles Considered a pest in the Caribbean



Scorpgeng plumieri, Watch out as really well camouflaged.

EGGS AND JUVENILES. Many of the fish change colour through their life.

often starting out brilliantly coloured and then becoming much less attractive as 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 Blue Tang is a brilliant yellow when young but turns a grey/blue when adult. Other fish change colour at different times. When the adult males of the Sergeant Major guard their eggs they are



Microspathodon chrysurus.



Blue Tang (yellow!) Acanthurus coeruleus Juvenile above, adult below. Juvenile above, adults below eggs above, normal below



Sergeant Major, Abudefdut saxatilis. Blue male, with







HARD 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 form reefs. They are particularly at risk from changes in water temperature, because they exist in cooperation with microscopic algae (seaweed), which live in their cells and provide them with energy during the day. If the water gets too hot



Smooth Flower Coral. Eusmilia fastiaiata.



Massive Starlet Coral. Siderastrea siderea. Large, red/brown coral. Often found in a circular form



Grooved Brain Coral Diploria labyrinthiformis





ANIMALS WITH TENTACLES. The hard corals and other similar, soft

corals, zoanthids and anemones are all based on the same building block, the polyp,

Hard corals and soft corals may include many hundreds of polyps, while anemones are

solitary polyps. The polyps all have a similar form, each having a ring of feeding tentacles

around their mouth, which they extend to catch small animals that swim in the water

This is a very diverse group of animals in both form and colour.

Pterogorgia guadalupensis.



WORMS. It may surprise you but some of the most colourful marine species are worms. These are not the same as the slippery creatures you find in the earth, as they have spectacular crowns of tentacles, which they use 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



Split-Crown Feather Duster.



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 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

Christmas Tree Worm. Spirobranchus giganteus.



 $\ensuremath{\mathsf{SPONGES}}$ are some of the biggest species in the resort area. They are also one of the most diverse groups with almost 20 species recorded. The biggest of all the sponges off Grand Roatan Resort is called the Giant Barrel Sponge, which can be almost 2m high. Sponges also have some of the strangest shapes, including barrels, tubes, dish, rope-like, 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





Yellow Tube Sponge Anlysina fistularis.

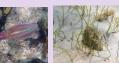


Cliona delitrix.

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 hardly move, such as the bivalves, or move very slowly including the Conch shells. Other species in this group, however, are very fast swimmers and often chase and catch other species in mid-water, including fish. These fast swimmers include squid and octopus, which can also change colour to hide, or swell up to make themselves look bigger, scaring predators away.



Caribbean Reef Squid. Sepioteuthis sepioidea.



Stiff Penshell Atrina rigida



Queen Conch. Lobatus aigas.

BIG FISH. Although much of the area is very shallow several large species of fish can

Flame Box Crab.

Calappa flammea. Usually

buried in sand.



Channel Clinging Crab.

over reef top

Maquimithrax spinosissimus





Caribbean Spiny Lobster

Panulirus argus. Hides

under rock ledges.

Southern Stingray.





Holocentrus rufus



COLOURFUL FISH. Many of the species in the area are brightly coloured wi

"disruptive" natterns, hars and false eyes, which help to confuse the animals that want to

eat them. Some of the most brightly coloured are the Parrotfish. They are known as

Queen Angelfish Holacanthus ciliaris





Bodianus rufus.

Hypoplectrus indiad

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he seen. One of the most impressive is the Great Barracuda which is over 1.2m long.



which makes them almost invisible in the blue water

Great Barracuda. Sphyraena barracuda. Often found in shallows

Cero.

Scomberomorus regalis.



Scarus auacamaia, One of the largest parrotfish.



Flat Needlefish. Blennes highs.



Kynhosus higibbus