Welcome to PALM ISLAN



left of the jetty, keep left. Sand and rock

initially, with seagrass

in the offshore and flat

rock ledges with over-

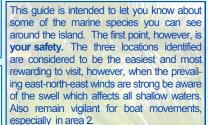
hangs in the inshore.

Area 1. Off the north west comer. Enter on the sandy beach before Swim out to the the nathway seagrass, turn right on to sand and coral debris. Then find small coral mounds within former reef patches.









Marine Life Resort

Guide

prepared by

Dr. Nigel Thomas

Four main habitat types exist; Rock and Coral (with ledges, crevices and overhangs), Sand (often with coral debris), Seagrass and Open Water.

Nearly all of these images were collected while snorkelling around Palm Island, so you can be assured that you will be able to see most of them yourself. All common names are in bold while Latin are in italic. An indication of size is given after the latin name: L = Large, M = Medium, S = Small and VS = very small. @ = Don't touch! 1, 2, 3, A (all) indicates where you are most likely to see them

Copyright to photographs held by Nigel Thomas. Marine Life Resort Guide is a Trademark. Please contact Nigel on nsthomas@sky.com for further information





Taribbean .

One of the most common of the

shoaling fish, the

Sergeant Major

area. Abudefduf

saxatilis (S-M, A)

throughout

present

the



fish easily identifiable

from the large vertical

black bars. It is often

found in pairs in rocky

The **Doctorfish** is

closely related to the Blue Tang

and is often seen in large shoals over the ledge

areas. They have

characteristi

vertical bars and may change colour from grey

to dark blue. Acantharus chirurgus (M,1, 2).

striatus (S-M, 1,2).

Butterfly-

Chaetodon

Banded

areas

Area 3. Enter at the eastern end of the beach, next to the hammock. Cross area of sand and coral debris, then keep right. Area between the offshore reef and inshore rock ledges supports a large outcrop of coral reef.

Rock and Coral Habitat

Fish

Rock and Coral, as a habitat, supports a wide variety of fish species. The following are some of the more frequently observed species, although by no means all

Foureye Butterfly Fish has a distinct false eye near its tail. Often found in pairs it can observed around the rocky ledges of the wes coast.



Chaetodon capistratus (S, 2)





Blue Tang (Acanthurus coeruleus, S-M, 1 & 2) particularly notable around the rock ledges of are



Trumpetfish, hiding in a Sea Plume. Aulostomus maculatus (M, 2).



Common around all reef areas, the Brown Chromis, Chromis multilineata (S, A)





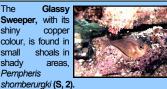
This is one of the

group of species



Whitespotted Filefish. This species found in reef areas. feeds on sponges and algae. It

one with white spots, one (unhelpfully) without! Cantherines macrocerus. (M. 1).



French Grunt found in shoals off the ledges in area 2. Brilliant yellow and silver blue stripes are characteristic.





French Angelfish was spotted off the ledges in area 2. striking vellow stripes black background and blue edged fins

juvenile

are characteristic. Pomacanthus paru, (VS as juvenile, 2).



and feet. Don't worry, as it amounts to nothing more than a fishy kiss. Stegastes sp. (S, A).



species that form the Sea Basses. In this case probably Graysby Notable within caves and on ledaes

One of several



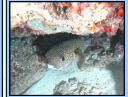
shoal of initial phase **Striped** Parrotfish, Scarus iserti accompanied by an initial phase Blue head (yellow!)

Thalassoma bifasciatumthe and a juvenile Stoplight Parrotfish at the bottom of the picture (Sparisoma viride). Found around the overhangs in area 2.





Lactophrys triqueter (S-M. A)



The quite large, Porcupinefish may be found hiding beneath overhangs and in caves. Inflates if pestered! Diodon hystrix (L, 2).

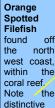
Lurking in the small holes and crevices you can find the Spotted Moray eel. They appear to threatening, frequently

opening and closing their mouth's but this is only for respiration. Gymnothorax moringa (S-L, 2)



The Longspine Squirrelfish, characteristic big eyes and red and silver stripes. Several similar species exist which drift in shaded reef

areas during the day. Holocentrus rufus (M, 1).



(M, 1).

be

bν

spike like dorsal fin. Cantherhines pullus



Rock and Coral Habitat

Coral and Coral like species

Many species of stony coral exist around the island including several massive species. There are also numerous examples of soft corals (Octocorals) and coral-like species including sponges and seaweeds.



A good example of a true stony coral the Massive Starlet Coral (Sidastrea sidereal, L, 1) surrounded by numerous Long-spined Urchins (Diadema antillarum, M, ®, 1 & 2) and hosting many small fish species, with Brown Chromis (Chromis multilineata S, A) most evident.

Found in the shallow, silty reef areas. One of the Finger Coral species Madracis sp. (M, 1,3)



Rock and Coral also supports a range of smaller invertebrates, often well hidden amongst other species.



Nimble Spray Crab is often found near the Longspined Urchins. Note yellow bands on Percnon gibbesi (S, 2).

Spiny Spotted Under ledges often in small aroups. Palunirus auttatus (M,1,2)





brightly coloured species, a wom Split Crown Feather Duster Found encased in coral. Anamobaea orstedii. (VS, A).



Social The Feather Duster worm is found in small groups in bright colours of

the crowns are characteristic. Bispira brunnea. (VS, 1, 2).

Blade Fire Coral. Millepora complanata, ., 8, 2). Found in shallow reef areas.



Branching Coral. Millepora alcicomis (S-M, 8. A). All reef areas.



Boulder Star Coral. Massive arowths off the south coast Many fish are associated with this coral

Montastrea annularis (VL, 3)



Smooth Brain Coral. Common in the shallow silty areas off the south and north west coast. Diploria strigosa (L, 1,3)

A mixture of a calcified leaf: algal species, Halimeda sp and Mustard Hill Coral. Porites (S-M, 3).



Sand and coral debris. As a habitat this is less visually interesting but it supports a variety of specialised fish and invertebrates.

The sand and debris habitat is favoured by Stingrays of various types. Top right shows a stingray agitating



the seabed to release food species. To the left is shown a well camouflaged ray, with only its eyes visible Dasyatis sp. (L, A).

One of the more often observed fish species the sand habitat the Sand Diver. Synodus intermedius (M, A)





Often noted in the vicinity of burrows in the sand are these small and nearly transparent Gobies (Gobiidae. VS, 1,3). May share thei burrow, see below.

Burrows in the occupied by these Snapping Shrimps. Probably Alpheus sp. (S, 1,3).





Typically found shallow waters with coral debris. Excretes toxins probably protect itself Spiny lobster. Stichodactvla helianthus (S-M, 3)



The shallow water areas, where wave surge is highest are populated by the Common Sea which is a Fan soft. gorgonian Octocoral.

Gorgonia ventalina, (M, 2)



Plumes (Pseudopterogorgia spp. M-L, 2) may be found off the edge of the rock ledges.



Another example of the Common Fan illustrating the range of colour from purple to yellow.



The Brown Tube Sponge has forms, which this is antler like growth. Agelas conifer (M, 3)



Stunted version the Tube Sponge found shallow waters off the south coast fistularis (M, 2, 3)

The natural habitat

for the Green Sea

Seagrass beds. The island is surrounded by extensive areas of seagrass, most noticeably off the west coast. Numerous species are particularly associated with this habitat.



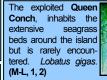
Turtle is the inshore seagrass, grazing on lush grass Possible all coasts Chelonia mydas. (L, A).

Cushion Sea Red Star. Juveniles hide in seagrass beds, while the adults migrate to deep water in the winter. Oreaster reticulatus. (M. 1.2).



the common species on seagrass beds, the Green Sea Urchin, is often found in small groups covered in leaf

Lytechinus variegatus. (S-M, A)





segrass.

90cm. Myrichthys

The Amber Pen Shell may be found partially buried in sediment. It is most easily observed in seagrasse Pinna camea. (S-M, 1, 2)

The Goldspotted Eel is well disguised amongst specimen show is small but they can grow up to ocellatus. (S-L, 1,2)



The Black Sea

Rod. (Plexaura

homomalla, M,1)

Characterised by

distinctive yellow

an

Octocoral

species are similar to both soft and stony

corals, with the Green Finger Sponge a good example (Iotrochota birotulata, M, 2). Notable often having the Golden Zoanthid (Parazoanthus swifti) interwoven (above right).

This large black and rounded sponge, tolerant sediment deposition, was seen in all areas Probably Aaptos lithophaga (M-L, A).



The Netted Barre Sponge has a thin wall and is often vase shaped. Mainly found in area 1. apparently tolerant of silts. Verongula gigantean (L, 1).



Open water. A variety of fish and invertebrate species are notably found in open waters, generally well camouflaged and fast swimmers



A small shoal of Horse-Eye Jack Large eyes and a yellow tail help identify this fish. Caranx latus (S-M, 2).

Yellowtail Snapper. The adults swim alone or may form Ocyurus chrysurus

(M, 1, 2).





Yellowfin Mojarra. Fast moving in shallow water areas Indistinct vertical stripes. Gerres cinereus. (S-M, 1,2)

silver Ballyhoo seen in small groups rapidly swimming at surface of the



Hemiramphus brasiliensis (S-M, A).



Caribbean Reef Squid are often found in small schools (4-30), in open water, with young individuals typically hiding in seagrass Sepioteuthis sepioidea, (M, A)