

MBARA Diver's Reef Survey Form

Updated 11 July 2010

Reef Site Name: MB 20 Hale's Hole

Position Readings:

GPS Manufacturer & model: Garmin 188C

N Lat.: 29 53.883 W Lon.: 85 31.530

Sonar Depth: 51'

Survey Date & Time: 23 Jul 2010/1400

Weather conditions and sea state: Partly Cloudy/1-2'

Boat Name: Bobcat

Boat Captain: Bob Cox

Dive Leader: Bob Cox

Dive Team Members: Carol Cox

Diver Observations

Computer/Depth Gauge Depth: 53'

Diver Bottom Time on Survey: :58

Water Temp: Surface: 87F Bottom: 80F

Water Visibility: Surface: 10' Bottom: 20'

Thermocline Depth: 40'

Current direction and speed:

Other noted water column characteristics (plankton, algae, jellyfish, turbidity, etc): Jellyfish and turbid.

Description of Bottom Composition (sand, silt, mud, gravel, shell, etc):

Sand

Description of Reef Materials & Quantity: Concrete culverts and boxes

Reef Height (highest point): 4'

Reef Physical Condition (Durability and Stability): Good; some pieces settling in the sand.

Storm damage or movement? If yes, describe: None

Other damage or movement? If yes, describe: None

Fish Count:

Species:	Quantity	Size
Angelfish, Queen		
Anglefish, Blue	1	10"
Baitfish - Round Scad (Cigar Minnows)		
Baitfish – Glass Minnow (Bay Anchovy)	10,000+	1"
Baitfish - Menhaden		
Baitfish - Pinfish		
Baitfish, species?		
Barracuda - Guaguanche		
Barracuda-Great		
Batfish, Polka-Dot		
Blenny, Molly Miller		
Blenny, Seaweed	10	1-2"
Blenny, Tessallated		
Bonito		
Butterflyfish, Reef		
Butterflyfish, Spotfin		
Cardinalfish, Two-Spot	20	1-2"
Cobia (Ling)		
Cowfish, Scrawled		
Croaker, Atlantic		
Chromis - Purple Reeffish		
Chromis - Yellowtail Reeffish		
Damselfish - Cocoa	20	.5-1"
Damselfish sp?		
Dolphin, sp?		
Drum - Cubbyu	40	1-10"
Eel, species?		
Flounder, Gulf	4	12-14"
Frogfish, Ocellated		
Goby, Blue		
Goby, Bridled		
Goby, species?		
Grouper, Gag	100	8-22"
Grouper, Goliath		
Grouper, Red		
Grouper, Rock Hind		

Grouper, Scamp	10	11"
Grunts - Tomtate		
Grunts, White	4	12"
Grunts, sp?		
Jack – Blue Runner (Hard Tail)		
Jack - Greater Amberjack	20	10-12"
Jack sp?		
Jack, Almaco (Lesser)		
Jack, Lookdown		
Jack, Rainbow Runner		
Lizardfish, Blue-Lined		
Mackeral, King		
Mackeral, Spanish		
Mahi		
Margate, Black		
Porgy , Saucereye	20	8"
Porgy - Sheepshead	5	10-14"
Puffer - Balloonfish		
Puffer, Sharpnose		
Ray, Manta		
Ray, Southern Stingray		
Remora (Sharksucker)	1	24"
Sailfish		
Seabass, Bank		
Seabass, Belted Sandfish	10	.5-3"
Shark, sp?		
Snapper, Bigeye		
Snapper, Gray (Black)	80	8-16"
Snapper, Red	10	10-18"
Snapper, Vermillion (Mingo)		
Soapfish, Whitespotted	10	6"
Spadefish, Atlantic	100	10"
Toadfish, Leopard	1	11"
Triggerfish, Gray	5	10-12"
Wrasse - Slippery Dick	100+	1-2"

Other: Tiger Govy 2 1"

Description of Biological Growth on Reef:

Species	Quantity/Area of Coverage (% of area or dimensions)	Size	Color
Algae			
Barnacles			
Christmas Tree Worm			
Coral - Colorful Sea Whip	5%	10-18"	Purp
Coral - unk gorgonian	1	10"	Red/Brn
Coral - White Telesto			
Bulb Anemone	2"x12"	2"	
Tube Anemone	1	5"	Gray/Pnk
Hard Corals-Assorted	20%	1"	
Mussels			
Oyster, sp?			
Scallops sp?			
Sponges	2	4"	Org/Pnk

Other: Feather Dusters 10 1" Wht/Purp
 Pale Anemones 12"x12" 1"

Description of Invertebrates on Reef:

Species	Quantity	Size
Cowry - Atlantic Deer		
Cowry - Spotted Cyphoma		
Crab, Blue		
Crab, Rock		
Crab, Sargassum Swimming		
Crab, Stareye Hermit		
Crab, Yellowline Arrow	20	2-4"
Crab, species?		
Lobster, Shovelnose		
Lobster, Spiny		
Sea Cucumber	1	14"
Sea Slug, Species?		
Sea Urchin	40	1-3"
Snail - Atlantic Harry Triton		
Snail - Giant Eastern Murex		
Snail - Netted Olive		
Snail - Queen Helmet		
Snail - Spiny Murex		
Snail - True Tulip		
Snail- Florida Horse Conch	2	6-10"
Invertebrate, species?		

Other:

Marine Amphibians:

Species	Quantity	Size	Color
Turtle, Loggerhead			
Turtle, Green			
Turtle, Leatherback			
Turtle, Species?			

Other:

Other Observations:

One culvert/pipe was standing on end creating a bowl effect with chunks of concrete inside. This small area created a habitat diversity that many fish frequented. One toadfish, 10 Cardinal Fish, 6 Gray Snapper, 2 Gag Grouper, 1 Triggerfish, 1 Arrow Crab, 4 Cocoa Damsels, 1 Seaweed Blenny, and 14 Cubbyus were observed holding on this small area.











