

# MBARA Diver's Reef Survey Form

Updated 11 July 2010

Reef Site Name: MB 22 Mixer #4

Position Readings:

GPS Manufacturer & model: Garmin 188C

N Lat.: N29 54.224                      W Lon.: 85 32.037

Sonar Depth: 60'

Survey Date & Time: 19 Jul 2010/1000

Weather conditions and sea state: Sunny/Calm

Boat Name: Bobcat

Boat Captain: Bob Cox

Dive Leader: Bob Cox

Dive Team Members: Carol Cox

Diver Observations

Computer/Depth Gauge Depth: 61'

Diver Bottom Time on Survey: :28

Water Temp: Surface: 85F                      Bottom: 82F

Water Visibility: Surface: 10'                      Bottom: 20'

Thermocline Depth:

Current direction and speed: Surface from E at .2kt

Other noted water column characteristics (plankton, algae, jellyfish, turbidity, etc): Dead organic globs

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

Sand

Description of Reef Materials & Quantity: Concrete Truck Mixer Drum cut in half (two pieces)

Reef Height (highest point): 4'

Reef Physical Condition (Durability and Stability): Found one half in excellent condition. Second piece detected by sonar only prior to dive about 100' to the East. Unable to find second piece during dive because of low visibility.

Storm damage or movement? If yes, describe: None suspected.

Other damage or movement? If yes, describe: None suspected.

## Fish Count:

Species:	Quantity	Size
Angelfish, Queen		
Angelfish, Blue		
Baitfish - Round Scad (Cigar Minnows)	500+	1"
Baitfish - Glass Minnow (Bay Anchovy)		
Baitfish - Menhaden		
Baitfish - Pinfish		
Baitfish, species?		
Barracuda - Guaguanche		
Barracuda-Great		
Batfish, Polka-Dot		
Blenny, Molly Miller		
Blenny, Seaweed	6	1"
Blenny, Tessallated		
Bonito		
Butterflyfish, Reef		
Butterflyfish, Spotfin		
Cardinalfish, Two-Spot		
Cobia (Ling)		
Cowfish, Scrawled		
Croaker, Atlantic		
Chromis - Purple Reeffish		
Chromis - Yellowtail Reeffish		
Damselfish - Cocoa	4	1"
Damselfish sp?		
Dolphin, sp?		
Drum - Cubbyu	3	1-3"
Eel, species?		
Flounder, Gulf		
Frogfish, Ocellated		
Goby, Blue		
Goby, Bridled		
Goby, species?		
Grouper, Gag	10	6-18"
Grouper, Goliath		
Grouper, Red		
Grouper, Rock Hind		

Grouper, Scamp		
Grunt - Tomtate	500+	1-8"
Grunt, White		
Grunt, sp?		
Jack - Blue Runner (Hard Tail)		
Jack - Greater Amberjack		
Jack sp?		
Jack, Almaco (Lesser)		
Jack, Lookdown		
Jack, Rainbow Runner		
Lizardfish, Blue-Lined		
Mackeral, King		
Mackeral, Spanish		
Mahi		
Margate, Black		
Porgy sp?		
Porgy - Sheepshead		
Puffer - Balloonfish		
Puffer, Sharpnose		
Ray, Manta		
Ray, Southern Stingray		
Remora (Sharksucker)		
Sailfish		
Seabass, Bank		
Seabass, Belted Sandfish	4	2"
Shark, sp?		
Snapper, Bigeye		
Snapper, Gray (Black)	2	10-16"
Snapper, Red	40	8-16"
Snapper, Vermillion (Mingo)		
Soapfish, Whitespotted	4	6"
Spadefish, Atlantic	20	8-10"
Toadfish, Leopard		
Triggerfish, Gray		
Wrasse - Slippery Dick	20	1-3"

Other:

## Description of Biological Growth on Reef:

Species	Quantity/Area of Coverage (% of area or dimensions)	Size	Color
Algae			
Barnacles	2%	.5"	
Christmas Tree Worm			
Coral - Colorful Sea Whip	3	12-18"	Purp
Coral - unk gorgonian			
Coral - White Telesto			
Bulb Anemone			
Tube Anemone			
Hard Corals-Assorted			
Mussels			
Oyster, sp?			
Scallops sp?			
Sponges			

### Other:

## 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	2	3"
Crab, species?		
Lobster, Shovelnose		
Lobster, Spiny		
Sea Cucumber		
Sea Slug, Species?		
Sea Urchin	50	.5-2"
Snail - Atlantic Harry Triton		
Snail - Giant Eastern Murex		
Snail - Netted Olive		
Snail - Queen Helmet		
Snail - Spiny Murex		
Snail - True Tulip		
Snail- Florida Horse Conch		
Invertebrate, species?		

**Other:** Gorgonian Shrimp 1 .25"

## Marine Amphibians:

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

## Other:

### Other Observations:

Highly possible some incorrect Lat/Lon numbers were earlier distributed giving false positions. It's suspected that the mixers were deployed using Loran-C TDs and later converted in error. Bob Cox formed this prediction based on computer based plots and tracks searching for the mixers. Bob Cox will attempt another search using the current and possibly correct Lat/Lons posted on the MBARA website and use converted Loran TDs as well.





