### MBARA Diver's Reef Survey Form Rev 11 May 2013

Reef Number and Name MB 179 Hotop Memorial Reef Latitude | 29 54.554 Longitude Was published lat/lon correct? Yes 85 32.372  $(00\ 00.000)$  $(00\ 00.000)$ GPS Manufacturer & Model: Garmin 188C Sonar Depth (feet) Survey Date May 24, 2016 60 Time |1435 Weather Conditions Sunny and lite wind Sea Condition 1-2 feet Boat Captain Bob Cox **Boat Name** Bobcat Dive Leader Bob Cox **Dive Team Members** Depth Gauge Depth (feet) |60 Diver Bottom Time (minutes) 25 Water Temp Surface (Fahrenheit) Water Temp Bottom (Fahrenheit) 76 69 Water Visibility Surface (feet) 15 Water Visibility Bottom (feet) 15 Thermocline Depth (feet) 20 Current Direction NW **Current Speed (knots)** 1 Other Water Column Characteristics (check all that apply) R Plankton □ Algae Jellyfish **⊠** Turbid □ Other Bottom Composition (check all that apply) □ Silt 🗆 Gravel 🗖 Shell **⊠** Sand ⊢ Mud □ Other Reef Materials & Quantity 1 FLAR with plaque Reef Height at Highest Point (measured from base to top of the reef)(feet) 8 Physical Condition (Durability, stability, storm damage, other damage or movement): • No damage  $\bigcirc$  Minor damage  $\bigcirc$  Moderate damage ○ Major damage ○ Minor movement ○ Moderate movement No movement Major movement

Explain damage/movement and suspected cause

Clear Form

# Fish Counts (Click on the hyper-links below for identification)

Angelfish-Blue	○ 1	O 2-10	11-100 (	0 101+	Length (inches)	Comments
Angelfish-Queen	○ 1	○ 2-10	○ 11-100 (	0 101+	Length (inches)	Comments
Barracuda-Great	01	○ 2-10	○ 11-100 (	0 101+	Length (inches)	Comments
Barracuda-Guaguanche	○ 1	O 2-10	○ 11-100 (	0 101+	Length (inches)	Comments
Batfish-Polka-Dot	○ 1	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Blenny-Molly-Miller	○ 1	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Blenny-Seaweed	○ 1	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Blenny-Tessellated	○ 1	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Blenny?	○ 1	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Butterflyfish-Spotfin	○ 1	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Butterflyfish?	○ 1	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Cardinalfish-Two-Spot	○ 1	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Chromis-Purple-Reeffish	○ 1	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Chromis-Yellowtail- Reeffish	01	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Cobia (Ling)	<u> </u>	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Cowfish-Scrawled	01	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Damselfish-Cocoa	01	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Damselfish?	01	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Dolphin?	01	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Drum-Cubbyu	○ 1	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Drum-Jackknifefish	○ 1	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Eel?	○ 1	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Flounder-Gulf	○ 1	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Filefish?	○ 1	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Frogfish-Ocellated	○ 1	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Goby-Spotted	○ 1	○ 2-10	O 11-100 (	0 101+	Length (inches)	Comments
Goby?	01	O 2-10	11-100 (	0 101+	Length (inches)	Comments

Grouper-Gag	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Grouper-Goliath	• 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Grouper-Graysby	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Grouper-Red	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Grouper-Rock-Hind	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Grouper-Scamp	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Grunt-Juvenile	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Grunt-Tomtate	○ 1	○ 2-10 ● 11-100 (	101+ Length (inches)	Comments
Grunt-White	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Grunt?	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Hogfish	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Hogfish-Spanish	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Jack-Almaco-Lesser-AJ	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Jack-Blue-Runner	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Jack-Greater-Amberjack	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Jack-Lookdown	O 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Jack-Rainbow-Runner	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Jack-Round-Scad-Cigar- <u>Minnow</u>	O 1	○ 2-10 ● 11-100 (	101+ Length (inches)	Comments
<u>Jack?</u>	O 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Lionfish	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Lizardfish?	O 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Mackeral-King	O 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Mackeral-Spanish	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Mahi	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Minnows-Glass-Small-Fry	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Pinfish?	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Porgy-Saucereye	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments
Porgy-Sheepshead-Porgy	○ 1	○ 2-10 ○ 11-100 (	101+ Length (inches)	Comments

Porgy-Sheepshead	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Porgy?	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Puffer-Bandtail	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Puffer-Sharpnose	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Puffer?	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Ray?	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Shark?	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Sharksucker-Sharksucker	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Sharksucker-Whitefin	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Sand-Perch	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Seabass-Bank	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Seabass-Belted-Sandfish	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Seabass-Black	<u> </u>	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Seabass-Pygmy	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Seabass?	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
✓ Snapper-Gray	○ 1		Length (inches)	Comments
Snapper-Lane	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Snapper-Red	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Snapper-Vermillion	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Snapper?	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Soapfish-Whitespotted	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Spadefish-Atlantic	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Toadfish-Leopard	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Triggerfish-Gray	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Wrasse-Slippery-Dick	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Unlisted-See-Comments	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Unlisted-See-Comments	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Unlisted-See-Comments	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments

# Growth on Reef (Click on the hyper-links below for identification)

Algae	○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) Describe	
Anemone	○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) Describe	
Barnacles	○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) Describe	
Bivalves	○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) Describe	
Coral-Colorful-Sea-Whip	○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) Describe	
Coral-Hard-Unkown	○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) Describe	
Coral-Gorgonian	○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) Describe	
Coral-Occulina	○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) Describe	
Coral-White-Telesto	○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) Describe	
Feather-Duster-Worms	○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) Describe	
Sponges	○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) Describe	
Unlisted-See-Comments	○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) Describe	

## Invertebrates at Reef (Click on the hyper-links below for identification)

Cowry-Spotted-Cyphoma	○ 1	O 2-10	O 11-100	○ 101+	Size (inches)	Comments
Cowry-West-Indian-Simnia	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments
Crab-Swimming	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments
Crab-Stareye-Hermit	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments
Crab-Stone	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments
Crab-Yellowline-Arrow	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments
Crab?	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments
Lobster-Shovelnose	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments
Lobster-Spiny	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments
<u>Octopus</u>	<u> </u>	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments
Sea-Cucumber	<u> </u>	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments
Sea-Slug	<u> </u>	○ 2-10	O 11-100	○ 101+	Size (inches)	Comments
Sea-Star	<u> </u>	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments
Sea-Urchin	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments

Snail-Atlantic-Hairy-Triton	01	O 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
Snail-Murex	01	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
Snail-Netted-Olive	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
Snail-Florida-Horse-Conch	<u> </u>	O 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
Unlisted-See-Comments	○ 1	O 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
Turtles and Air Breathers/Mammals (Click on the hyper-links below for identification)							
Turtle-Green	○ 1	O 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
Turtle-Leatherback	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
Turtle-Loggerhead	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
Turtle?	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
Whale?	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
Unlisted-See-Comments	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
Unlisted-See-Comments	01	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
Unlisted-See-Comments	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments	

# Other Observations/Photos:

Observations	
Photos? Yes	Attached? Yes
Video? Yes	



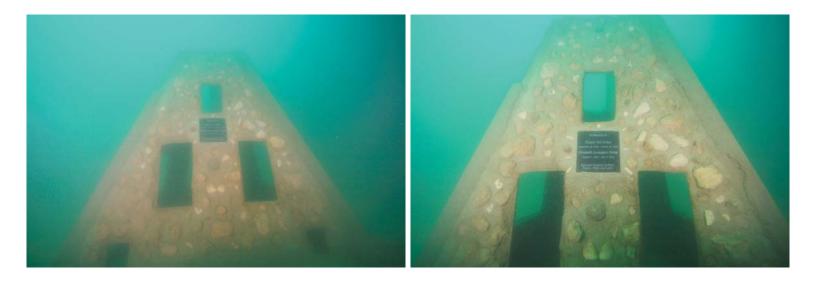


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