MBARA Diver's Reef Survey Form Rev 11 May 2013 Clear Form							
Reef Number and Name 91 MB-91 unnamed							
Latitude (00 00.000) Longitude (00 00.000) Was published lat/lon correct?	Yes						
GPS Manufacturer & Model: Garmin 188C							
Sonar Depth (feet) 85 Survey Date Jun 20, 2015 Time 1227							
Weather Conditions Sunny Sea Condition 2 ft							
Boat Name Bob Cat Boat Captain Bob Cox							
Dive Leader Bob Cox							
Dive Team Members Carol Cox							
Depth Gauge Depth (feet) 87 Diver Bottom Time (minutes) 50							
Water Temp Surface (Fahrenheit) 87 Water Temp Bottom (Fahrenheit) 81							
Water Visibility Surface (feet) 10 Water Visibility Bottom (feet) 40							
Thermocline Depth (feet) Current Direction Current Speed (knots)							
Other Water Column Characteristics (check all that apply)							
oxedge Plankton $oxedge$ Algae $oxedge$ Jellyfish $oxedge$ Turbid $oxedge$ Other							
Bottom Composition (check all that apply)							
⊠ Sand ☐ Silt ☐ Mud ☐ Gravel ☐ Shell ☐ Other ☐							
Reef Materials & Quantity 10 "Florida Special" pyramid reef modules with rock panels							
Reef Height at Highest Point (measured from base to top of the reef)(feet) 10							
Physical Condition (Durability, stability, storm damage, other damage or movement):							
 No damage	novement						
Explain damage/movement and suspected cause 1 on side - home to shrimp and to	oadfish						

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

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

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

Porgy-Sheepshead	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Porgy?	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Puffer-Bandtail	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
V Puffer-Sharpnose	1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Puffer?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Ray?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Shark?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Sharksucker-Sharksucker	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Sharksucker-Whitefin	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Sand-Perch	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ <u>Seabass-Bank</u>	O 1	2-10	<u> </u>	O 101+	Length (inches)	Comments
✓ Seabass-Belted-Sandfish	O 1	<u> </u>	11-100	O 101+	Length (inches)	Comments
Seabass-Black	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Seabass-Pygmy	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Seabass?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Snapper-Gray	O 1	<u> </u>	11-100	O 101+	Length (inches)	Comments
Snapper-Lane	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Snapper-Red	O 1	<u> </u>	11-100	O 101+	Length (inches) 8-24	Comments
✓ Snapper-Vermillion	O 1	<u> </u>	11-100	O 101+	Length (inches) 1	Comments juveniles
Snapper?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Soapfish-Whitespotted	O 1	2-10	<u> </u>	O 101+	Length (inches)	Comments
Spadefish-Atlantic	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
▼ Toadfish-Leopard	O 1	2-10	<u> </u>	O 101+	Length (inches)	Comments
Triggerfish-Gray	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Wrasse-Slippery-Dick	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
✓ Unlisted-See-Comments	O 1	<u> </u>	11-100	O 101+	Length (inches)	Comments painted wrasse
Unlisted-See-Comments	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Unlisted-See-Comments	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments

Growth on Reef (Click on the hyper-links below for identification) ● 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) ✓ Algae Describe ● 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) **✓** Anemone Describe ● 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) **▼**Barnacles Describe ● 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) **▼** Bivalves 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 ○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) Coral-Gorgonian Describe ● 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) **✓** Coral-Occulina 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 tunicates ● 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) ✓ Unlisted-See-Comments Describe Invertebrates at Reef (Click on the hyper-links below for identification) Cowry-Spotted-Cyphoma 1 O 2-10 O 11-100 O 101+ Size (inches) Comments Cowry-West-Indian-Simnia 1 O 2-10 O 11-100 O 101+ Comments Size (inches) Crab-Swimming O 2-10 O 11-100 O 101+ \bigcirc 1 Size (inches) Comments Crab-Stareye-Hermit \bigcirc 1 ○ 2-10 ○ 11-100 ○ 101+ Comments Size (inches) Crab-Stone \bigcirc 1 ○ 2-10 ○ 11-100 ○ 101+ Comments Size (inches) \bigcirc 1 ○ 2-10 **○** 11-100 ○ 101+ Size (inches) Comments ○ 2-10 ○ 11-100 ○ 101+ Crab? \bigcirc 1 Size (inches) Comments Lobster-Shovelnose \bigcirc 1 O 2-10 O 11-100 O 101+ Size (inches) Comments Lobster-Spiny ○ 2-10 ○ 11-100 ○ 101+ \bigcirc 1 Size (inches) Comments **Octopus** ○ 2-10 ○ 11-100 ○ 101+ \bigcirc 1 Size (inches) Comments Sea-Cucumber O 2-10 O 11-100 O 101+ \bigcirc 1 Size (inches) Comments Sea-Slug \bigcirc 1 O 2-10 O 11-100 O 101+ Comments Size (inches) Sea-Star \bigcirc 1 O 2-10 O 11-100 O 101+ Comments Size (inches)

O 2-10 O 11-100 O 101+

Size (inches)

 \bigcirc 1

Sea-Urchin

Comments

Snail-Atlantic-Hairy-Triton	<u> </u>	O 2-10 O 11-100 O 101+	Size (inches)	Comments		
Snail-Murex	O 1	O 2-10 O 11-100 O 101+	Size (inches)	Comments		
Snail-Netted-Olive	O 1	O 2-10 O 11-100 O 101+	Size (inches)	Comments		
Snail-Florida-Horse-Conch	O 1	O 2-10 O 11-100 O 101+	Size (inches)	Comments		
Unlisted-See-Comments	O 1	O 2-10 O 11-100 O 101+	Size (inches)	Comments		
Turtles and Air Bre	athers/	/Mammals (Click on th	e hyper-links belov	v for identification)		
Turtle-Green	O 1	O 2-10 O 11-100 O 101+	Size (inches)	Comments		
Turtle-Leatherback	O 1	O 2-10 O 11-100 O 101+	Size (inches)	Comments		
Turtle-Loggerhead	O 1	O 2-10 O 11-100 O 101+	Size (inches)	Comments		
Turtle?	O 1	O 2-10 O 11-100 O 101+	Size (inches)	Comments		
Whale?	O 1	O 2-10 O 11-100 O 101+	Size (inches)	Comments		
Unlisted-See-Comments	<u> </u>	O 2-10 O 11-100 O 101+	Size (inches)	Comments		
Unlisted-See-Comments	<u> </u>	O 2-10 O 11-100 O 101+	Size (inches)	Comments		
Unlisted-See-Comments	O 1	O 2-10 O 11-100 O 101+	Size (inches)	Comments		
Other Observatio	ns/Pho	otos:				
Observations Photos of p	irate blenn	ıy, Emblemaria piratula, are very rar	e. Photos has been confirmed	by two marine biologists.		
Photos? Yes Attached? Yes						
Video? Yes						
103						



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