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

Reef Number and Name 41 Bluefish Reef
Latitude 29 53.538 Longitude 85 31.986 Was published lat/lon correct? No
GPS Manufacturer & Model: Garmin 188C
Sonar Depth (feet)58Survey DateSep 7, 2014Time1400
Weather Conditions Sunny Sea Condition 1 ft
Boat Name Bob Cat Boat Captain Bob Cox
Dive Leader Bob Cox
Dive Team Members Carol Cox Brian and Kimberly Higdon
Depth Gauge Depth (feet) 60 Diver Bottom Time (minutes) 32
Water Temp Surface (Fahrenheit) 86 Water Temp Bottom (Fahrenheit) 84
Water Visibility Surface (feet) 50 Water Visibility Bottom (feet) 30
Thermocline Depth (feet) Current Direction Current Speed (knots)
Other Water Column Characteristics (check all that apply)
Plankton Algae Jellyfish Turbid Other
Bottom Composition (check all that apply)
$\boxtimes$ Sand $\square$ Silt $\square$ Mud $\square$ Gravel $\square$ Shell $\square$ Other
Reef Materials & Quantity 9 reefballs (supposed to be 8, update website)
Reef Height at Highest Point (measured from base to top of the reef)(feet)
Physical Condition (Durability, stability, storm damage, other damage or movement):
<ul> <li>No damage</li> <li>Minor damage</li> <li>Moderate damage</li> <li>Major damage</li> <li>Movement</li> <li>Moderate movement</li> <li>Major movement</li> </ul>
Explain damage/movement and suspected cause

**Clear Form** 

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

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

Grouper-Gag	○ 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Grouper-Goliath	○ 1	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Grouper-Graysby	O 1	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Grouper-Red	<u> </u>	○ 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	<u> </u>	○ 2-10	○ 11-100	Length (inches)	Comments
Grunt-White	○ 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Grunt?	<u> </u>	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Hogfish	<u> </u>	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Hogfish-Spanish	○ 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Jack-Almaco-Lesser-AJ	O 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Jack-Blue-Runner	○ 1	O 2-10	11-100 () 101+	Length (inches)	Comments
Jack-Greater-Amberjack	○ 1	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Jack-Lookdown	○ 1	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Jack-Rainbow-Runner	O 1	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Jack-Round-Scad-Cigar- <u>Minnow</u>	○ 1	O 2-10	○ 11-100	Length (inches)	Comments
Jack?	○ 1	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
✓Lionfish	○ 1	2-10	○ 11-100 ○ 101+	Length (inches) 6	Comments Five killed
Lizardfish?	○ 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Mackeral-King	○ 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Mackeral-Spanish	○ 1	2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Mahi	O 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Minnows-Glass-Small-Fry	○ 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Pinfish?	O 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Porgy-Saucereye	O 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Porgy-Sheepshead-Porgy	O 1	2-10	○ 11-100 ○ 101+	Length (inches)	Comments

Porgy-Sheepshead	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Porgy?	01	○ 2-10	0 ( 11-100 ( 101+	Length (inches)	Comments
✓ Puffer-Bandtail	1	○ 2-10	0 ( 11-100 ( 101+	Length (inches)	Comments
Puffer-Sharpnose	01	○ 2-10	0 ( 11-100 ( 101+	Length (inches)	Comments
Puffer?	O 1	○ 2-10	0 ( 11-100 ( 101+	Length (inches)	Comments
Ray?	O 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Shark?	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Sharksucker-Sharksucker	O 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Sharksucker-Whitefin	O 1	○ 2-10	0 ( 11-100 ( 101+	Length (inches)	Comments
✓ Sand-Perch	O 1	2-10	0 ( 11-100 ( 101+	Length (inches)	Comments
Seabass-Bank	O 1	○ 2-10	0 ( 11-100 ( 101+	Length (inches)	Comments
Seabass-Belted-Sandfish	O 1	2-10	0 () 11-100 () 101+	Length (inches)	Comments
Seabass-Black	<u> </u>	○ 2-10	0 ( 11-100 ( 101+	Length (inches)	Comments
Seabass-Pygmy	O 1	○ 2-10	0 ( 11-100 ( 101+	Length (inches)	Comments
Seabass?	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Snapper-Gray	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Snapper-Lane	01	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
✓ Snapper-Red	○ 1	2-10	0 () 11-100 () 101+	Length (inches)	Comments
Snapper-Vermillion	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Snapper?	O 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Soapfish-Whitespotted	O 1	2-10	0 ( 11-100 ( 101+	Length (inches)	Comments
Spadefish-Atlantic	O 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
✓ Toadfish-Leopard	○ 1	2-10	0 () 11-100 () 101+	Length (inches)	Comments
<b>√</b> Triggerfish-Gray	○ 1	2-10	0 () 11-100 () 101+	Length (inches)	Comments
Wrasse-Slippery-Dick	O 1	○ 2-10	0 (• 11-100 () 101+	Length (inches)	Comments
✓ Unlisted-See-Comments	O 1	2-10	0 ( 11-100 ( 101+	Length (inches)	Comments Emerald
Unlisted-See-Comments	O 1	○ 2-10	0 ( 11-100 ( 101+	Length (inches)	Comments
Unlisted-See-Comments	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments

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

Algae	○ 1-25% ○	26-50% 🔿 51-75%	o () 76-100%	Size (inches)	Describe	Deadman fingers
Anemone	○ 1-25% ○	26-50% 🔿 51-75%	o () 76-100%	Size (inches)	Describe	
✓ Barnacles	1-25% ()	26-50% 🔿 51-75%	o () 76-100%	Size (inches)	Describe	
Bivalves	○ 1-25% ○	26-50% 🔿 51-75%	o () 76-100%	Size (inches)	Describe	
Coral-Colorful-Sea-Whip	○ 1-25% ○	26-50% 🔿 51-75%	o () 76-100%	Size (inches)	Describe	
Coral-Hard-Unkown	○ 1-25% ○	26-50% 🔿 51-75%	o () 76-100%	Size (inches)	Describe	hidden cup, et al
Coral-Gorgonian	○ 1-25% ○	26-50% 🔿 51-75%	o () 76-100%	Size (inches)	Describe	
Coral-Occulina	○ 1-25% ○	26-50% 🔿 51-75%	o () 76-100%	Size (inches)	Describe	
Coral-White-Telesto	○ 1-25% ○	26-50% 🔿 51-75%	o () 76-100%	Size (inches)	Describe	
Feather-Duster-Worms	○ 1-25% ○	26-50% 🔿 51-75%	76-100%	Size (inches)	Describe	
<u>Sponges</u>	○ 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	Hydroids,

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

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

Snail-Atlantic-Hairy-Triton	<u> </u>	O 2-10	○ 11-100	○ 101+	Size (inches)	Comments
Snail-Murex	○ 1	O 2-10	○ 11-100	○ 101+	Size (inches)	Comments
Snail-Netted-Olive	○ 1	O 2-10	○ 11-100	○ 101+	Size (inches)	Comments
Snail-Florida-Horse-Conch	○ 1	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 Bre	athers	/Mamm	nals (Clic	k on the	hyper-links belo	w 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	O 2-10	○ 11-100	○ 101+	Size (inches)	Comments
Whale?	○ 1	O 2-10	○ 11-100	○ 101+	Size (inches)	Comments
Unlisted-See-Comments	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments
Unlisted-See-Comments	○ 1	O 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	







Image Field





Image Field



Image Field



Image Field



Image Field





Image Field



Image Field

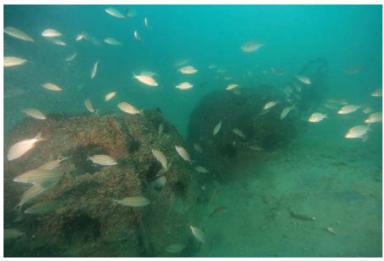


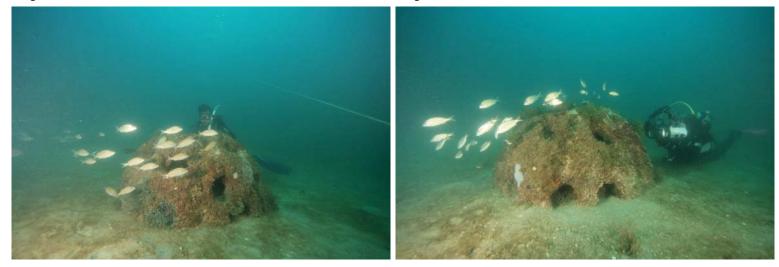
Image Field



Image Field



## Image Field



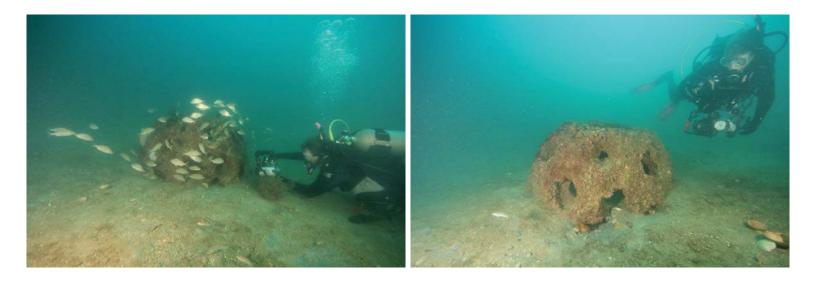


Image Field



## Image Field

