MBARA Diver's Reef Survey Form Rev 11 May 2013  Clear Form					
Reef Number and Name 148 Unnamed Reef					
Latitude (00 00.000) Longitude (00 00.000) Was published lat/lon correct?	Yes				
GPS Manufacturer & Model: Garmin 188C					
Sonar Depth (feet) 19 Survey Date Jul 15, 2014 Time 1430					
Weather Conditions Overcast Sea Condition 1 ft					
Boat Name Bob Cat Boat Captain Bob Cox					
Dive Leader Bob Cox					
Dive Team Members Carol Cox					
Depth Gauge Depth (feet) 20 Diver Bottom Time (minutes) 30					
Water Temp Surface (Fahrenheit) 83 Water Temp Bottom (Fahrenheit) 80					
Water Visibility Surface (feet) 20 Water Visibility Bottom (feet) 20					
Thermocline Depth (feet) Current Direction Current Speed (knots					
Other Water Column Characteristics (check all that apply)					
$_{\square}$ Plankton $_{\square}$ Algae $_{\square}$ Jellyfish $_{oxedown}$ Turbid $_{\square}$ Other					
Bottom Composition (check all that apply)					
⊠ Sand ☐ Silt ☐ Mud ☐ Gravel ☑ Shell ☐ Other ☐					
Reef Materials & Quantity 4 FLAR, 2 grouper/eco hybrids					
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></ul>	novement				
Explain damage/movement and suspected cause					

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

Angelfish-Blue	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Angelfish-Queen	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Barracuda-Great	O 1	<u> </u>	<u> </u>	○ 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>	<u> </u>	O 101+	Length (inches)	Comments
<b>▼</b> Blenny-Seaweed	O 1	<ul><li>2-10</li></ul>	<u> </u>	O 101+	Length (inches)	Comments
Blenny-Tessellated	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
	O 1	<ul><li>2-10</li></ul>	<u> </u>	O 101+	Length (inches) 1	Comments zebratail
Butterflyfish-Spotfin	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Butterflyfish?	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Cardinalfish-Two-Spot	O 1	<u> </u>	<u> </u>	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)	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Cowfish-Scrawled	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Damselfish-Cocoa	O 1	<ul><li>2-10</li></ul>	<u> </u>	O 101+	Length (inches)	Comments
Damselfish?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Dolphin?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Drum-Cubbyu	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Drum-Jackknifefish	O 1	<u> </u>	<u> </u>	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>	<u> </u>	O 101+	Length (inches)	Comments
Goby?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments

<b>√</b> Grouper-Gag	O 1	2-10	<u> </u>	O 101+	Length (inches)	Comments
Grouper-Goliath	O 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>	○ 101+	Length (inches)	Comments
Grouper-Rock-Hind	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Grouper-Scamp	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Grunt-Juvenile	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
<b>✓</b> Grunt-Tomtate	O 1	<u> </u>	<u> </u>	101+	Length (inches)	Comments
Grunt-White	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓Grunt?	O 1	<u> </u>	<ul><li>11-100</li></ul>	O 101+	Length (inches)	Comments pigfish
Hogfish	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Hogfish-Spanish	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Jack-Almaco-Lesser-AJ	<ul><li>1</li></ul>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
<b></b> ✓ Jack-Blue-Runner	O 1	<u> </u>	<ul><li>11-100</li></ul>	O 101+	Length (inches)	Comments
✓ Jack-Greater-Amberjack	O 1	<u> </u>	<ul><li>11-100</li></ul>	O 101+	Length (inches)	Comments
☐ Jack-Lookdown	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	<ul><li>2-10</li></ul>	<u> </u>	O 101+	Length (inches)	Comments
<b></b> ✓ Jack?	O 1	<u> </u>	O 11-100	<ul><li>101+</li></ul>	Length (inches)	Comments atlantic bumper
Lionfish	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
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	<ul><li>2-10</li></ul>	<u> </u>	O 101+	Length (inches)	Comments pinfish
Porgy-Saucereye	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Porgy-Sheepshead-Porgy	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments

<b>▼</b> Porgy-Sheepshead	<u> </u>	<ul><li>2-10</li></ul>	<u> </u>	O 101+	Length (inches)	Comments
Porgy?	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Puffer-Bandtail	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Puffer-Sharpnose	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Puffer?	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Ray?	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Shark?	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Sharksucker-Sharksucker	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Sharksucker-Whitefin	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Sand-Perch	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Seabass-Bank	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Seabass-Belted-Sandfish	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Seabass-Black	<u> </u>	<ul><li>2-10</li></ul>	<u> </u>	O 101+	Length (inches)	Comments
Seabass-Pygmy	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Seabass?	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Snapper-Gray	<u> </u>	<u> </u>	<ul><li>11-100</li></ul>	O 101+	Length (inches)	Comments
Snapper-Lane	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Snapper-Red	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Snapper-Vermillion	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Snapper?	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Soapfish-Whitespotted	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Spadefish-Atlantic	<u> </u>	<u> </u>	<ul><li>11-100</li></ul>	O 101+	Length (inches)	Comments
Toadfish-Leopard	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
<b>▼</b> Triggerfish-Gray	<u> </u>	<u> </u>	<u> </u>	<ul><li>101+</li></ul>	Length (inches)	Comments
<b>✓</b> Wrasse-Slippery-Dick	<u> </u>	<u> </u>	<ul><li>11-100</li></ul>	O 101+	Length (inches)	Comments
✓ Unlisted-See-Comments	<u> </u>	<ul><li>2-10</li></ul>	<u> </u>	O 101+	Length (inches)	Comments yellow jack
✓ Unlisted-See-Comments	1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments featherduster
Unlisted-See-Comments	<u> </u>	<u> </u>	<u> </u>	O 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 Describe **▼**Barnacles Describe ○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) **☐** Bivalves Describe ○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) Coral-Colorful-Sea-Whip 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 ○ 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 O 2-10 O 11-100 O 101+ $\bigcirc$ 1 Comments Size (inches) $\bigcirc$ 1 ● 2-10 ○ 11-100 ○ 101+ Size (inches) Comments O 2-10 O 11-100 O 101+ Crab? $\bigcirc$ 1 Size (inches) Comments Lobster-Shovelnose $\bigcirc$ 1 O 2-10 O 11-100 O 101+ Size (inches) Comments Lobster-Spiny O 2-10 O 11-100 O 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 ○ 2-10 ○ 11-100 ○ 101+ Comments Size (inches) Sea-Star $\bigcirc$ 1 O 2-10 O 11-100 O 101+ Comments Size (inches) Sea-Urchin O 2-10 O 11-100 O 101+ $\bigcirc$ 1 Comments Size (inches)

Snail-Atlantic-Hairy-Triton	O 1	<u>2-10</u>	<u> </u>	O 101+	Size (inches)	Comments		
Snail-Murex	O 1	<u> </u>	<u> </u>	O 101+	Size (inches)	Comments		
Snail-Netted-Olive	O 1	<u> </u>	<u> </u>	O 101+	Size (inches)	Comments		
Snail-Florida-Horse-Conch	O 1	<u> </u>	<u> </u>	O 101+	Size (inches)	Comments		
Unlisted-See-Comments	O 1	<u> </u>	<u> </u>	O 101+	Size (inches)	Comments		
Turtles and Air Bre	athers/	Mamn	nals (Clic	k on the	hyper-links below	v for identification)		
Turtle-Green	O 1	<u> </u>	<u> </u>	O 101+	Size (inches)	Comments		
Turtle-Leatherback	O 1	<u> </u>	<u> </u>	O 101+	Size (inches)	Comments		
Turtle-Loggerhead	O 1	<u> </u>	<u> </u>	O 101+	Size (inches)	Comments		
Turtle?	O 1	<u> </u>	<u> </u>	O 101+	Size (inches)	Comments		
Whale?	O 1	<u> </u>	<u> </u>	O 101+	Size (inches)	Comments		
Unlisted-See-Comments	O 1	<u> </u>	<u> </u>	O 101+	Size (inches)	Comments		
Unlisted-See-Comments	O 1	<u> </u>	<u> </u>	O 101+	Size (inches)	Comments		
Unlisted-See-Comments	O 1	<u> </u>	<u> </u>	O 101+	Size (inches)	Comments		
Other Observatio	ns/Pho	tos:						
Observations								
Photos? Attached?	?							
Video?								

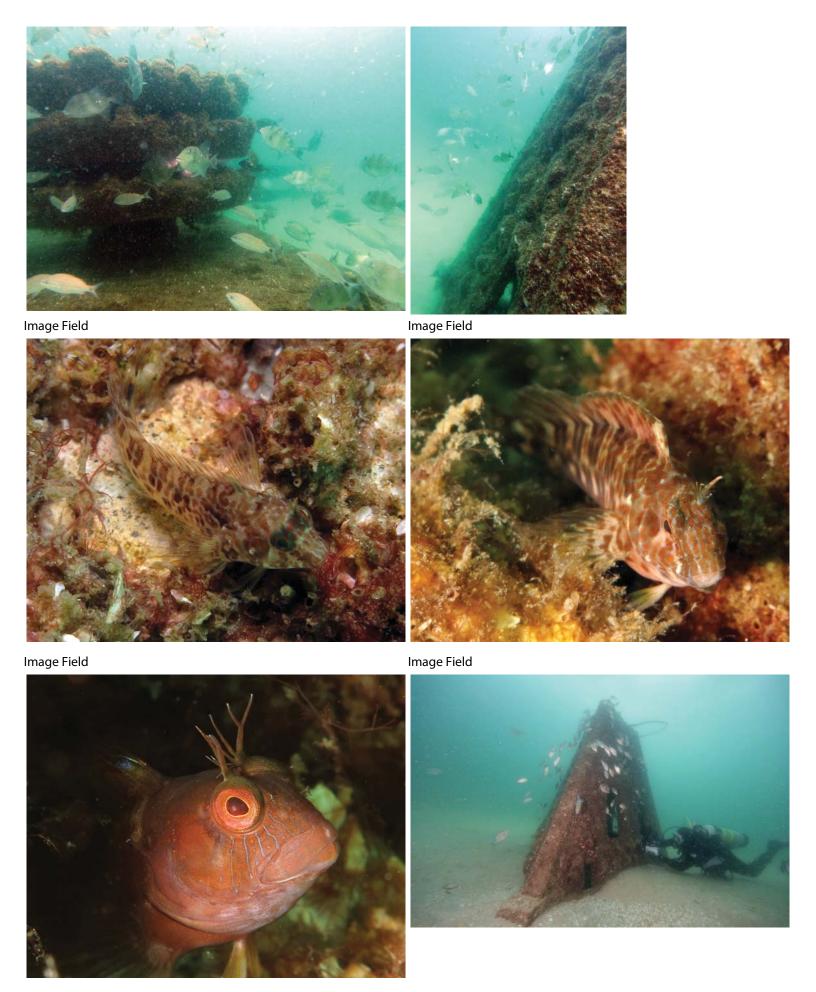


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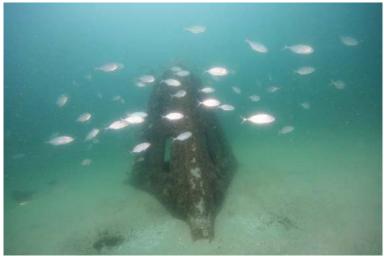


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