MBARA Diver's Reef Survey Form Rev 11 May 2013	Clear Form
Reef Number and Name 5 Amberjack Reef	
Latitude (00 00.000) Longitude (00 00.000) 85 24.322 Was published lat/lon correct?	Yes
GPS Manufacturer & Model: Garmin 188C	
Sonar Depth (feet) 26 Survey Date Nov 11, 2013 Time 1145	
Weather Conditions Sunny Sea Condition Calm	
Boat Name Bobcat Boat Captain Bob Cox	
Dive Leader Bob Cox	
Dive Team Members Carol Cox	
Depth Gauge Depth (feet) 26 Diver Bottom Time (minutes) 30	
Water Temp Surface (Fahrenheit) 70 Water Temp Bottom (Fahrenheit) 68	
Water Visibility Surface (feet) 20 Water Visibility Bottom (feet) 20	
Thermocline Depth (feet) 20 Current Direction Current Speed (knots)	
Other Water Column Characteristics (check all that apply)	
$_{\square}$ Plankton $_{\square}$ Algae $_{\square}$ Jellyfish $_{oxdotine}$ Turbid $_{oxdotine}$ Other $_{oxdotine}$ Green water	
Bottom Composition (check all that apply)	
⊠ Sand       ⊠ Silt       ☐ Mud       ☐ Gravel       ☐ Shell       ☐ Other       ☐ Other	
Reef Materials & Quantity 5 Reefballs and Range Tower Debris	
Reef Height at Highest Point (measured from base to top of the reef)(feet) 3	
Physical Condition (Durability, stability, storm damage, other damage or movement):	
<ul> <li>No damage</li></ul>	novement
Explain damage/movement and suspected cause See observations	

## 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	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Barracuda-Guaguanche	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Batfish-Polka-Dot	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Blenny-Molly-Miller	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Blenny-Seaweed	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Blenny-Tessellated	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Blenny?	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Butterflyfish-Spotfin	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Butterflyfish?	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Cardinalfish-Two-Spot	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Chromis-Purple-Reeffish	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Chromis-Yellowtail- Reeffish	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Cobia (Ling)	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Cowfish-Scrawled	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Damselfish-Cocoa	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Damselfish?	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Dolphin?	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
<b>✓</b> <u>Drum-Cubbyu</u>	O 1	O 2-10	<ul><li>11-100</li></ul>	O 101+	Length (inches)	Comments
Drum-Jackknifefish	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Eel?	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Flounder-Gulf	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Filefish?	<ul><li>1</li></ul>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments Planehead
Frogfish-Ocellated	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Goby-Spotted	O 1	O 2-10	<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>	○ 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	<ul><li>1</li></ul>	<u> </u>	<u> </u>	○ 101+	Length (inches) 8	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
Grunt-Tomtate	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Grunt-White	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Grunt?	$\bigcirc$ 1	<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	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
☐ Jack-Blue-Runner	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
☐ Jack-Greater-Amberjack	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Jack-Lookdown	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
<u>Jack-Rainbow-Runner</u>	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	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	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
<u> Mahi</u>						
IVICITI	<u> </u>	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Minnows-Glass-Small-Fry	<ul><li>○ 1</li><li>○ 1</li></ul>		<ul><li>11-100</li><li>11-100</li></ul>		Length (inches)	Comments Comments
		<u> </u>		O 101+		
Minnows-Glass-Small-Fry	<u> </u>	<ul><li>2-10</li><li>2-10</li></ul>	<u> </u>	<ul><li>○ 101+</li><li>○ 101+</li></ul>	Length (inches)	Comments

Porgy-Sheepshead	O 1	<ul><li>2-10</li></ul>	<u> </u>	○ 101+	Length (inches)	Comments
Porgy?	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Puffer-Bandtail	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Puffer-Sharpnose	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Puffer?	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Ray?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Shark?	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Sharksucker-Sharksucker	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Sharksucker-Whitefin	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Sand-Perch	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Seabass-Bank	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Seabass-Belted-Sandfish	<ul><li>1</li></ul>	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Seabass-Black	<u> </u>	<ul><li>2-10</li></ul>	<u> </u>	○ 101+	Length (inches)	Comments
Seabass-Pygmy	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Seabass?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Snapper-Gray	O 1	<ul><li>2-10</li></ul>	<u> </u>	O 101+	Length (inches)	Comments
Snapper-Lane	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Snapper-Red	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Snapper-Vermillion	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Snapper?	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Soapfish-Whitespotted	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Spadefish-Atlantic	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Toadfish-Leopard	O 1	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
<b>▼</b> Triggerfish-Gray	<ul><li>1</li></ul>	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Wrasse-Slippery-Dick	O 1	O 2-10	<u> </u>	○ 101+	Length (inches)	Comments
<b>✓</b> Unlisted-See-Comments	O 1	<u> </u>	<ul><li>11-100</li></ul>	O 101+	Length (inches)	Comments Silver Jenny
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) Algae 1-25% 26-50% 51-75% 76-100% Size (inches) Describe ○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) Anemone Describe ○ 1-25% ○ 26-50% **⑤** 51-75% ○ 76-100% Size (inches) **V** 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) Crab-Yellowline-Arrow $\bigcirc$ 1 ○ 2-10 ○ 11-100 ○ 101+ Size (inches) Comments $\bigcirc$ 1 O 2-10 O 11-100 O 101+ Crab? Size (inches) Comments Lobster-Shovelnose O 2-10 O 11-100 O 101+ $\bigcirc$ 1 Size (inches) Comments Lobster-Spiny ○ 2-10 ○ 11-100 ○ 101+ $\bigcirc$ 1 Size (inches) Comments **✓** Octopus 1 ○ 2-10 ○ 11-100 ○ 101+ 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	
<u>Snail-Murex</u>	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 Breathers/Mammals (Click on the hyper-links below 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	
// O±la a // Ola a a // - a ±i a	/51						
Other Observation      Other Obser	ns/Pho	tos:					
	4 of 5 Reefk		visibility mak	es it difficult t	o locate all Reef	balls that were deployed in a widely	



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