MBARA Diver's Reef Survey Form Rev 20 Jun 2016

Reef Number and Name MB 213 Unnammed
Latitude (00 00.000) 29 55.690 Longitude (00 00.000) 85 29.423 Was published lat/lon correct? Yes Sonar Depth (ft) 24
GPS Manufacturer & Model: Garmin 188C
Survey Date Nov 14, 2016 Dive # 3 Time 1147
Cloud Cover % 0 Wind Spd & Dir Calm Wave Height (ft) 0
Boat Name Bobcat Boat Captain Bob Cox Crew Bob Stapleton
Divers Bob Cox and Bob Stapleton
Survey Type Roving Diver Depth Gauge Depth (ft) 24 Diver Bottom Time (minutes) 11
Water Temp Surface (Fahrenheit) 67 Water Temp Bottom (Fahrenheit) 67
Water Visibility Surface (feet) 15 Water Visibility Bottom (feet) 15
Thermocline Depth (feet) Current Direction Current Speed (knots)
Other Water Column Characteristics (check all that apply)
\Box Plankton \boxtimes Algae \Box Jellyfish \boxtimes Turbid \Box Other
Bottom Composition (check all that apply)
\boxtimes Sand \square Silt \square Mud \square Gravel \boxtimes Shell \square Other
Reef Materials & Quantity 8 Florida Limestone Artificial Reef modules
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 Damage No movement Movement
Explain damage/movement and suspected cause

Clear Form

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

Angelfish-Blue	○ 1	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Angelfish-Queen	○ 1	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Barracuda-Great	O 1	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Batfish-Polka-Dot	01	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Blenny-Seaweed	○ 1	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Blenny-?	○ 1	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Blenny-?	<u> </u>	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Butterflyfish-Spotfin	○ 1	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Butterflyfish?	○ 1	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Cardinalfish-Two-Spot	○ 1	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Chromis-Purple-Reeffish	○ 1	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Chromis-Yellowtail- <u>Reeffish</u>	○ 1	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Damselfish-Cocoa	<u> </u>	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Damselfish?	<u> </u>	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Drum-Cubbyu	<u> </u>	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Drum-Jackknifefish	<u> </u>	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
<u>Eel?</u>	<u> </u>	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Elounder-Gulf	○ 1	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Eilefish?	○ 1	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Frogfish-Ocellated	○ 1	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Goby-Spotted	○ 1	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments
Goby?	○ 1	○ 2-10 ○ 11-100	○ 101+	Length (inches)	Comments

Grouper-Gag	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	○ 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	○ 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C 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	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Grunt-Juvenile	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Grunt-Tomtate	O 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
<u>Hogfish</u>	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Hogfish-Spanish	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Jack-Almaco	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Jack-Blue-Runner	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Jack-Greater-Amberjack	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Jack-Rainbow-Runner	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Jack-Round-Scad-Cigar- Minnow	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Jack?	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Jack?	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments

<u>Lionfish</u>	<u> </u>	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Mackeral-King	01	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Mackeral-Spanish	01	0 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Minnows-Glass-Small-Fr	т <u>у</u> (С 1	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Pinfish?	○ 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Porgy-Sheepshead- Porgy	O 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Porgy-Sheepshead	01	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Porgy?	<u> </u>	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
<u>Puffer-Bandtail</u>	<u> </u>	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Puffer-Sharpnose	○ 1	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Duffer?	○ 1	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Ray?	○ 1	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Shark-Bull	○ 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Shark-Sandbar	○ 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Shark?	<u> </u>	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Sharksucker-Sharksucke	<u>er</u> () 1	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Sand-Perch	<u> </u>	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Seabass-Bank	<u> </u>	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Seabass-Belted-Sandfish	<u>n</u> () 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Seabass-Black	<u> </u>	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Seabass-Pygmy	○ 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Seabass?	<u> </u>	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Snapper-Gray	○ 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Snapper-Lane	○ 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Snapper-Red	<u> </u>	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Snapper-Vermillion	○ 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Snapper?	○ 1	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Soapfish-Whitespotted	○ 1	O 2-10	○ 11-100 ○ 101+	Length (inches)	Comments

	Spadefish-Atlantic	0	1	0	2-10	0	11-10	00 () 1	01+ Le	ngth (inches)		Comments	
	Toadfish-Leopard	0	1	0	2-10	0	11-10	00 () 1	01+ Le	ngth (inches)		Comments	
	Triggerfish-Gray	0	1	0	2-10	0	11-10	00 () 1	01+ Le	ngth (inches)		Comments	
	Wrasse-Painted-Wrasse	0	1	0	2-10	0	11-10	00 () 1	01+ Le	ngth (inches)		Comments	
	Wrasse-Slippery-Dick	0	1	0	2-10	0	11-10	00 () 1	01+ Le	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-10	00 () 1	01+ Le	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-10	00 () 1	01+ Le	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-10	00 () 1	01+ Le	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-10	00 () 1	01+ Le	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-10	00 () 1	01+ Le	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-10	00 () 1	01+ Le	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-10	00 () 1	01+ Le	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-10	00 () 1	01+ Le	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-10	0 () 1	01+ Lei	ngth (inches)		Comments	
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	Unlisted-See-Comments	0	1	0	2-10	0	11-10	00 () 1	01+ Le	ngth (inches)		Comments	
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□ Gr		lic	k on t	the	e hyp	ber	-lin	ks k	bel	ow for	- 1	ation)	Comments Describe	
Gr	owth on Reef (Cl	licł O	k ON 1 1-25%	the O	e hyp 26-50	oer % (-lin	ks k 75%	oel O	ow for 76-100%	identific			
Gr	owth on Reef (Cl Algae	0	x on 1 1-25% 1-25%	c C	26-509 26-509	oer % (-lin 51-	ks k 75% 75%	o o	ow for 76-100% 76-100%	identific Size (inches		Describe	
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Gr Gr O	owth on Reef (Cl Algae Anemone Barnacles Bivalves Coral-Colorful-Sea-Whip		<pre>< ON 1 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25%</pre>		26-50 26-50 26-50 26-50 26-50 26-50	>>er % <	-lin 51- 51- 51- 51- 51- 51- 51-	ks k 75% 75% 75% 75% 75%	0 0 0 0 0	ow for 76-100% 76-100% 76-100% 76-100% 76-100%	identific Size (inches Size (inches Size (inches Size (inches Size (inches	ation))	Describe Describe Describe Describe Describe	
Gr Gr 0 0	owth on Reef (Cl Algae Anemone Barnacles Bivalves Coral-Colorful-Sea-Whip Coral-Hard-Unkown		<pre>< ON 1 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25%</pre>		e hyp 26-50 26-50 26-50 26-50 26-50 26-50 26-50	>>er %	-lin 51- 51- 51- 51- 51- 51- 51- 51-	ks k 75% 75% 75% 75% 75%		ow for 76-100% 76-100% 76-100% 76-100% 76-100% 76-100%	identific Size (inches Size (inches Size (inches Size (inches Size (inches Size (inches	ation))	Describe Describe Describe Describe Describe	
Gr Gr 0 0	owth on Reef (Cl Algae Anemone Barnacles Bivalves Coral-Colorful-Sea-Whip Coral-Hard-Unkown Coral-Gorgonian		<pre>< ON 1 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25%</pre>		e hyp 26-50 26-50 26-50 26-50 26-50 26-50 26-50	Der %	-lin 51- 51- 51- 51- 51- 51- 51- 51- 51-	ks k 75% 75% 75% 75% 75% 75%		ow for 76-100% 76-100% 76-100% 76-100% 76-100% 76-100% 76-100%	identific Size (inches Size (inches Size (inches Size (inches Size (inches Size (inches Size (inches	ation))	Describe Describe Describe Describe Describe Describe	
	owth on Reef (Cl Algae Anemone Barnacles Bivalves Coral-Colorful-Sea-Whip Coral-Hard-Unkown Coral-Gorgonian Coral-Occulina		<pre>< ON 1 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25%</pre>		e hyp 26-50 26-50 26-50 26-50 26-50 26-50 26-50 26-50	Der %	-lin 51- 51- 51- 51- 51- 51- 51- 51- 51- 51-	ks k 75% 75% 75% 75% 75% 75% 75%		ow for 76-100% 76-100% 76-100% 76-100% 76-100% 76-100% 76-100%	identific Size (inches Size (inches Size (inches Size (inches Size (inches Size (inches Size (inches Size (inches Size (inches	ation))	Describe Describe Describe Describe Describe Describe Describe	
	owth on Reef (Cl Algae Anemone Barnacles Bivalves Coral-Colorful-Sea-Whip Coral-Hard-Unkown Coral-Gorgonian Coral-Occulina Coral-White-Telesto		<pre>< ON 1 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25%</pre>		e hyp 26-50 26-50 26-50 26-50 26-50 26-50 26-50 26-50 26-50	Der % % % % % % % % % % % % % % % %	-lin 51- 51- 51- 51- 51- 51- 51- 51- 51- 51-	ks k 75% 75% 75% 75% 75% 75% 75% 75%		ow for 76-100% 76-100% 76-100% 76-100% 76-100% 76-100% 76-100% 76-100%	identific Size (inches Size (inches Size (inches Size (inches Size (inches Size (inches Size (inches Size (inches Size (inches Size (inches	ation))	Describe Describe Describe Describe Describe Describe Describe	

Unlisted-See-Comments	O 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
Unlisted-See-Comments	○ 1-25	% 🔿 26-50% 🔿 51-75% 🔿 76-100% Size (inches) 🗌	Describe
Invertebrates at Re	eef (Cli	ick on the hyper-links below for iden	tification)
Cowry-?	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
<u>Cowry-</u> ?	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Cowry-?	O 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Crab-Hermit	O 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Crab-Yellowline-Arrow	O 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Crab?	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Crab?	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Lobster-Shovelnose	O 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Octopus	<u> </u>	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Sea-Cucumber	O 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Sea-Slug	○ 1	○ 2-10 ○ 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
Shrimp-?	O 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Shrimp-?	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
□ <u>Snail-Florida-Horse-</u> <u>Conch</u>	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Snail-?	O 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Snail-?	O 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Unlisted-See-Comments	O 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Unlisted-See-Comments	<u> </u>	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Unlisted-See-Comments	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Unlisted-See-Comments	O 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Unlisted-See-Comments	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments

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Turtles and Air Breathers/Mammals (Click on the hyper-links below for identification)

Dolphin?	○ 1	O 2-10	○ 11-100	○ 101+	Length (inches)	Comments	
Turtle-Loggerhead	O 1	O 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
<u>Turtle?</u>	O 1	O 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
Whale?	<u> </u>	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 8 FLAR were deployed 11/11/2016. Initial survey was accomplished to verify location, orientation, and assess any damages. Location and proper orientation verified. No damage observed.

YouTube Video URL: https://youtu.be/T_xI7YK1iGs

Photos?	Yes	Attached?	Yes
Video?	Yes		

Print Form



Image Field



Image Field





Image Field



Image Field



Image Field

Image Field

Image Field

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