MBARA Diver's Reef Survey Form Rev 20 Jun 2016

Reef Number and Name 106 Duke Energy North Site Reef
Latitude (00 00.000) 29 46.740 Longitude (00 00.000) 85 41.608 Was published lat/lon correct? Yes Sonar Depth (ft) 92
GPS Manufacturer & Model: SIMRAD NSS9 EVO3
Survey Date Jun 30, 2018 Dive # 4 Time 1337
Cloud Cover % sunny Wind Spd & Dir 10-15 knots WSW Wave Height (ft) 1-2
Boat Name Bobcat Boat Captain Bob Cox Crew Carol Cox
Divers Carol Cox and Kimberly Higdon
Survey Type Roving Diver Depth Gauge Depth (ft) 93 Diver Bottom Time (minutes) 43
Water Temp Surface (Fahrenheit) 87 Water Temp Bottom (Fahrenheit) 73
Water Visibility Surface (feet) 30 Water Visibility Bottom (feet) 25
Thermocline Depth (feet) Current Direction Current Speed (knots)
Other Water Column Characteristics (check all that apply)
\Box Plankton \Box 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 3 FLAR, 2 Grouper Units
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 ○ No movement ● Movement
Explain damage/movement and suspected cause

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

Angelfish-Blue	○ 1	2-10	○ 11-100 (101+	Length (inches)	Comments
Angelfish-Queen	O 1	○ 2-10	○ 11-100 (0 101+	Length (inches)	Comments
Barracuda-Great	O 1	○ 2-10	○ 11-100 (0 101+	Length (inches)	Comments
Batfish-Polka-Dot	01	○ 2-10	○ 11-100 (101+	Length (inches)	Comments
Blenny-Seaweed	01	○ 2-10	○ 11-100 (101+	Length (inches)	Comments
Blenny-?	01	2-10	○ 11-100 (0 101+	Length (inches)	Comments barred blenny
Blenny-?	01	○ 2-10	○ 11-100 (101+	Length (inches)	Comments
Butterflyfish-Spotfin	01	2-10	○ 11-100 (101+	Length (inches)	Comments
Butterflyfish?	01	○ 2-10	○ 11-100 (101+	Length (inches)	Comments
Cardinalfish-Two-Spot	01	○ 2-10	○ 11-100 (0 101+	Length (inches)	Comments
Chromis-Purple-Reeffish	01	○ 2-10	11-100 (101+	Length (inches)	Comments
Chromis-Yellowtail- <u>Reeffish</u>	01	2-10	○ 11-100 (101+	Length (inches)	Comments
Damselfish-Cocoa	01	○ 2-10	○ 11-100 (101+	Length (inches)	Comments
Damselfish?	01	○ 2-10	○ 11-100 (101+	Length (inches)	Comments
Drum-Cubbyu	01	2-10	○ 11-100 (101+	Length (inches)	Comments
Drum-Jackknifefish	01	○ 2-10	○ 11-100 (0 101+	Length (inches)	Comments
<u>Eel?</u>	01	○ 2-10	○ 11-100 (0 101+	Length (inches)	Comments
Flounder-Gulf	01	○ 2-10	○ 11-100 (0 101+	Length (inches)	Comments
Eilefish?	01	○ 2-10	○ 11-100 (0 101+	Length (inches)	Comments
Frogfish-Ocellated	01	○ 2-10	○ 11-100 (0 101+	Length (inches)	Comments
Goby-Spotted	01	○ 2-10	○ 11-100 (0 101+	Length (inches)	Comments
Goby?	01	○ 2-10	○ 11-100 (101+	Length (inches)	Comments

Grouper-Gag	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	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-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	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Grunt-Juvenile	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Grunt-Tomtate	○ 1	○ 2-10 ○ 11-100 ④ 101+	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	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Jack-Almaco	○ 1	○ 2-10 ④ 11-100 ○ 101+	Length (inches)	Comments
Jack-Blue-Runner	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Jack-Greater-Amberjack	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Jack-Rainbow-Runner	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
☐ <u>Jack-Round-Scad-Cigar-</u> <u>Minnow</u>	○ 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

✓ Lionfish	0	1	0	2-10	۲	11-100	0	101+	Length (inches)	Comments	killed
Mackeral-King	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Mackeral-Spanish	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Minnows-Glass-Small-Fry	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Pinfish?	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Porgy-Sheepshead- Porgy	0	1	۲	2-10	0	11-100	0	101+	Length (inches)	Comments	
Porgy-Sheepshead	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Porgy?	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Puffer-Bandtail	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Puffer-Sharpnose	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Duffer?	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
<u>Ray?</u>	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Shark-Bull	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Shark-Sandbar	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Shark?	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Sharksucker-Sharksucker	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Sand-Perch	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Seabass-Bank	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Seabass-Belted-Sandfish	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Seabass-Black	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Seabass-Pygmy	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Seabass?	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
✓ Snapper-Gray	0	1	0	2-10	۲	11-100	0	101+	Length (inches)	Comments	
✓ Snapper-Lane	۲	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
✓ Snapper-Red	0	1	0	2-10	0	11-100	۲	101+	Length (inches)	Comments	
Snapper-Vermillion	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Snapper?	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
Soapfish-Whitespotted	0	1	۲	2-10	0	11-100	0	101+	Length (inches)	Comments	

	Spadefish-Atlantic	0	1	0	2-10	0	11-10	0 () 1	01+ Ler	ngth (inches)		Comments	
	Toadfish-Leopard	0	1	0	2-10	0	11-10	0 () 10	01+ Ler	ngth (inches)		Comments	
\checkmark	Triggerfish-Gray	0	1	0	2-10	۲	11-10	0 () 10	01+ Ler	ngth (inches)		Comments	
	Wrasse-Painted-Wrasse	0	1	0	2-10	0	11-10	0 () 1	01+ Ler	ngth (inches)		Comments	
	Wrasse-Slippery-Dick	0	1	0	2-10	0	11-10	0 () 1	01+ Ler	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-10	0 () 1	01+ Ler	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-10	0 () 1	01+ Ler	ngth (inches)		Comments	
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	Unlisted-See-Comments	О	1	0	2-10	0	11-10	0 () 10	01+ Ler	ngth (inches)		Comments	
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	Unlisted-See-Comments	0	1	0	2-10	0	11-10	0 () 10		ngth (inches)		Comments	
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□ Gr		lic	k on t	the	e hyp	ber	-linl	ks b	el	^{01+ Ler} ow for	- 1		Comments Describe	
Gr	owth on Reef (Cl	licł O	x ON 1 1-25%	the O	e hyp 26-50	oer % (-linl	ks k 75%	oel O	01+ Ler 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 % (-linl	ks k 75% 75%	o o o	01+ Ler OW fOr 76-100% 76-100%	identific Size (inches))	Describe	
Gr	owth on Reef (Cl Algae Anemone	0 0	C ON 1 1-25% 1-25% 1-25%	the 0 0	26-50 26-50 26-50	oer % () % ()	-linl	ks k 75% 75% 75%	o o o	01+ Ler OW fO 76-100% 76-100% 76-100%	identific Size (inches) Size (inches))	Describe Describe	
□ Gr □	owth on Reef (Cl Algae Anemone Barnacles	icl	C ON 1 1-25% 1-25% 1-25% 1-25%	0 0 0	26-50 26-50 26-50 26-50	Der % () % () % ()	-linl) 51-:) 51-:) 51-:) 51-:) 51-:	ks k 75% 75% 75%	0 0 0	01+ Ler ow for 76-100% 76-100% 76-100% 76-100%	identific Size (inches) Size (inches) Size (inches) Size (inches)		Describe Describe Describe	
Gr Gr 0	owth on Reef (Cl Algae Anemone Barnacles Bivalves	licl	X ON 1 1-25% 1-25% 1-25% 1-25% 1-25%	the 0 0 0	26-50 26-50 26-50 26-50 26-50	>>er % % % % % % % % % % % %	-linl) 51) 51) 51) 51) 51) 51) 51	ks b 75% 75% 75% 75%		01+ Ler OW fO 76-100% 76-100% 76-100% 76-100%	identific Size (inches) Size (inches) Size (inches) Size (inches)		Describe Describe Describe Describe	
Gr Gr 0	owth on Reef (Cl Algae Anemone Barnacles Bivalves Coral-Colorful-Sea-Whip		C ON 1 1-25% 1-25% 1-25% 1-25% 1-25% 1-25%		26-50 26-50 26-50 26-50 26-50 26-50	>>er % <	-linl) 51-:) 51-:) 51-:) 51-:) 51-:) 51-:) 51-:) 51-:	xs b 75% 75% 75% 75% 75%		01+ Ler OW fO 76-100% 76-100% 76-100% 76-100% 76-100% 76-100%	identific Size (inches) Size (inches) Size (inches) Size (inches) Size (inches)		Describe Describe Describe Describe Describe	
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	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 %	-linl) 51-:] 51-:] 5	ks k 75% 75% 75% 75% 75% 75%		01+ Ler OW fO 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)		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 %	-linl) 51-:] 51-:] 5	ks k 75% 75% 75% 75% 75% 75% 75%		01+ Ler OW fO 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)		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> C 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°	Der % % % % % % % % % % % % % % % %	-linl) 51-:] 51-:] 5	ks k 75% 75% 75% 75% 75% 75% 75% 75%		01+ Ler OW fO 76-100% 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)		Describe Describe Describe Describe Describe Describe Describe	

Unlisted-See-Comments	0 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	O 1-25	% 🔿 26-50% 🔿 51-75% 🔿 76-100% Size (inches)	Describe
Invertebrates at Re	eef (Cli	ick on the hyper-links below for identi	fication)
Cowry-?	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
<u>Cowry-</u> ?	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Cowry-?	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Crab-Hermit	O 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Crab-Yellowline-Arrow	○ 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	○ 1	○ 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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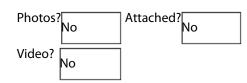
Turtles and Air Breathers/Mammals (Click on the hyper-links below for identification)

Dolphin?	<u> </u>	O 2-10	○ 11-100	○ 101+	Length (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	<u> </u>	O 2-10	○ 11-100	○ 101+	Size (inches)	Comments	

☑ Other Observations/Photos:

Observations

Primary objective was Lionfish removal.



Print Form

Image Field

Image Field