MBARA Diver's Reef Survey Form Rev 20 Jun 2016

Reef Number and Name 130 98 Real Estate Group Ling Ding Reef								
Latitude (00 00.000) 29 47.187 Longitude (00 00.000) 85 41.758 Was published lat/lon correct? Yes Sonar Depth (ft) 91								
GPS Manufacturer & Model: SIMRAD NSS9 EVO3								
Survey Date Jun 26, 2018 Dive # 1 Time 0930								
Cloud Cover % Sunny Wind Spd & Dir Wave Height (ft) 1-2								
Boat Name Bobcat Boat Captain Bob Cox Crew Carol Cox								
Divers Bob Cox, Carol Cox, Michael Scoggins								
Survey Type Roving Diver Depth Gauge Depth (ft) 91 Diver Bottom Time (minutes) 42								
Water Temp Surface (Fahrenheit) 84 Water Temp Bottom (Fahrenheit) 73								
Water Visibility Surface (feet) 30 Water Visibility Bottom (feet) 60								
Thermocline Depth (feet) Current Direction Current Speed (knots)								
Other Water Column Characteristics (check all that apply)								
\Box Plankton \Box Algae \boxtimes Jellyfish \Box 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, 1 Grouper Reef, 1 Ecosystem								
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								
Explain damage/movement and suspected cause								

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

Angelfish-Blue	<u> </u>	2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Angelfish-Queen	O 1	2-10	0 (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	O 1	2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Blenny-?	O 1	○ 2-10	11-100 \(C) 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 ○ 101+	Length (inches)	Comments
Chromis-Purple-Reeffish	01	○ 2-10	● 11-100 ○ 101+	Length (inches)	Comments
✓ Chromis-Yellowtail- <u>Reeffish</u>	O 1	○ 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	O 1	○ 2-10	11-100 \(C) 101+	Length (inches)	Comments
<u>Eel?</u>	01	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Flounder-Gulf	01	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Eilefish?	01	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Frogfish-Ocellated	01	○ 2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Goby-Spotted	01	2-10	○ 11-100 ○ 101+	Length (inches)	Comments
Goby?	01	○ 2-10	• 11-100 () 101+	Length (inches)	Comments Convict Goby

Grouper-Gag	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Grouper-Goliath	01	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	01	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	01	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	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Grouper-Red	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Grouper-Rock-Hind	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Grouper-Scamp	• 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Grunt-Juvenile	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Grunt-Tomtate	O 1	○ 2-10 ○ 11-100 ④ 101+	Length (inches)	Comments
Grunt-White	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Grunt?	01	○ 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	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Jack-Blue-Runner	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Jack-Greater-Amberjack	01	● 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	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Jack?	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Jack?	O 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	۲	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	۲	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	
<u>Seabass?</u>	0	1	0	2-10	0	11-100	0	101+	Length (inches)	Comments	
✓ <u>Snapper-Gray</u>	0	1	۲	2-10	0	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	۲	2-10	0	11-100	0	101+	Length (inches)	Comments	
Snapper-Vermillion	0	1	0	2-10	0	11-100	۲	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	11-100) C) 10	01+ Ler	ngth (inches)		Comments	
\checkmark	Toadfish-Leopard	0	1	۲	2-10	0	11-100) C) 10	01+ Ler	ngth (inches)		Comments	
\checkmark	Triggerfish-Gray	0	1	۲	2-10	0	11-100) C) 10	01+ Ler	ngth (inches)		Comments	
\checkmark	Wrasse-Painted-Wrasse	0	1	0	2-10	۲	11-100	C) 10)1+ Ler	ngth (inches)		Comments	
	Wrasse-Slippery-Dick	0	1	0	2-10	0	11-100	C) 10)1+ Ler	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-100) C) 10)1+ Ler	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-100) C) 10)1+ Ler	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-100) C) 10)1+ Ler	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-100	C) 10	01+ Ler	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-100) C) 10	01+ Ler	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-100) C) 10	01+ Ler	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-100) C) 10)1+ Ler	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-100) C) 10)1+ Ler	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	\bigcirc	2-10	\bigcirc	11-100) 10)1⊥ Lor	ngth (inches)		Comments	
	Uninsteu-See-Comments									Lei	.9()			
	Unlisted-See-Comments				2-10						ngth (inches)		Comments	
□ Gr		0	1	0	2-10	0	11-100) C) 10	01+ Ler	ngth (inches)	ation)		
Gr	Unlisted-See-Comments	0 licł	1 c on 1	0 the	²⁻¹⁰ e hyp	0 Der	11-100 -link	o C s b	elo	01+ Ler	ngth (inches)			
Gr	Unlisted-See-Comments	0 licł 0	1 x on 1 1-25%	O the O	2-10 e hyp 26-504	o per	11-100 -link) 51-7) () (s b) (5%)	o ic elc	01+ Ler OW fOr 76-100%	identific		Comments	
Gr	Unlisted-See-Comments T owth on Reef (C Algae	0 ic 0	1 (ON 1 1-25% 1-25%	0 the 0	2-10 e hyp 26-50 26-50	0 0er % (11-100 -link 51-7	5%) 10 elo () ()	01+ Ler OW fOr 76-100% 76-100%	ngth (inches) identific Size (inches)		Comments Describe	
Gr	Unlisted-See-Comments FOWTH ON Reef (C Algae Anemone	0 licł 0 0	1 C ON 1 1-25% 1-25% 1-25%	0 the 0 0	2-10 26-50 26-50 26-50	0 0er % () % ()	11-100 -link 51-7 51-7 51-7	5%) 10 elo 0 0	01+ Ler DW fOT 76-100% 76-100% 76-100%	ngth (inches) identific Size (inches) Size (inches)		Comments Describe Describe	
Gr	Unlisted-See-Comments FOWTH ON Reef (C Algae Anemone Barnacles	0 licł 0 0	1 C ON 1 1-25% 1-25% 1-25%	0 the 0 0	2-10 e hyp 26-50 26-50 26-50 26-50)))))))))))))))))))	11-100 -link 51-7 51-7 51-7 51-7 51-7) ((xs b) (5%) (5%) (5%)) 10 elo 0 0	D1+ Ler DW for 76-100% 76-100% 76-100% 76-100%	ngth (inches) identific Size (inches) Size (inches) Size (inches) Size (inches)		Comments Describe Describe Describe	
	Unlisted-See-Comments Owth on Reef (C Algae Anemone Barnacles Bivalves		1 C ON 1 1-25% 1-25% 1-25% 1-25%	0 the 0 0 0	2-10 26-50 26-50 26-50 26-50 26-50 26-50	• • • • • • • • • • • • • •	11-100 -link 51-7 51-7 51-7 51-7 51-7) ((s b) (5%) (5%) (5%) (5%)	0 0 0 0 0	01+ Ler DW fO 76-100% 76-100% 76-100% 76-100% 76-100%	ngth (inches) identific Size (inches) Size (inches) Size (inches) Size (inches)		Comments Describe Describe Describe	
	Unlisted-See-Comments rowth on Reef (C Algae Anemone Barnacles Bivalves Coral-Colorful-Sea-Whip		1 C ON 1 1-25% 1-25% 1-25% 1-25% 1-25%	0 the 0 0 0	2-10 2 hyp 26-50° 26-50° 26-50° 26-50° 26-50° 26-50°		11-100 -link 51-7 51-7 51-7 51-7 51-7 51-7 51-7) C (s b) (5%) (5%) (5%) (5%)		D1+ Ler DW fOr 76-100% 76-100% 76-100% 76-100% 76-100%	ngth (inches) identific Size (inches) Size (inches) Size (inches) Size (inches) Size (inches)		Comments Describe Describe Describe Describe	
	Unlisted-See-Comments rowth on Reef (C Algae Anemone Barnacles Bivalves Coral-Colorful-Sea-Whip Coral-Hard-Unkown		1 CON 1 1-25% 1-25% 1-25% 1-25% 1-25% 1-25%		2-10 2 hyp 26-50° 26-50° 26-50° 26-50° 26-50° 26-50° 26-50°		11-100 -link 51-7 51-7 51-7 51-7 51-7 51-7 51-7) C (s b) (5%) (5%) (5%) (5%) (5%)		D1+ Ler DW fO 76-100% 76-100% 76-100% 76-100% 76-100% 76-100%	ngth (inches) identific Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches)		Comments Describe Describe Describe Describe Describe	
	Unlisted-See-Comments Cowth on Reef (Cl Algae Anemone Barnacles Bivalves Coral-Colorful-Sea-Whip Coral-Hard-Unkown Coral-Gorgonian		1 CON 1 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25%		2-10 26-50° 26-50° 26-50° 26-50° 26-50° 26-50° 26-50°		11-100 -link 51-7 51-7 51-7 51-7 51-7 51-7 51-7 51-7 51-7) C 5% 5% 5% 5% 5% 5%		D1+ Ler DW fO 76-100% 76-100% 76-100% 76-100% 76-100% 76-100% 76-100%	ngth (inches) identific Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches)		Comments Describe Describe Describe Describe Describe Describe	
	Unlisted-See-Comments rowth on Reef (Cl Algae Anemone Barnacles Bivalves Coral-Colorful-Sea-Whip Coral-Hard-Unkown Coral-Gorgonian Coral-Occulina		1 (ON 1 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25%		2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-50		11-100 -link 51-7 51-7 51-7 51-7 51-7 51-7 51-7 51-7 51-7 51-7) C (s b) (5%) (5%) (5%) (5%) (5%) (5%)		D1+ Ler DW fO 76-100% 76-100% 76-100% 76-100% 76-100% 76-100% 76-100% 76-100%	ngth (inches) identific Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches)		Comments Describe Describe Describe Describe Describe Describe	
	Unlisted-See-Comments OWTH ON Reef (Cl Algae Anemone Barnacles Bivalves Coral-Colorful-Sea-Whip Coral-Hard-Unkown Coral-Gorgonian Coral-Occulina Coral-Occulina		1 CON 1 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25%		2-10 2 hyp 26-50° 26-50° 26-50° 26-50° 26-50° 26-50° 26-50° 26-50° 26-50° 26-50°		11-100 -link 51-7 51-7 51-7 51-7 51-7 51-7 51-7 51-7 51-7 51-7 51-7) C 5% 5% 5% 5% 5% 5% 5% 5%		D1+ Ler DW fO 76-100% 76-100% 76-100% 76-100% 76-100% 76-100% 76-100% 76-100%	ngth (inches) identific Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches)		Comments Describe Describe Describe Describe Describe Describe Describe	

Unlisted-See-Comments	1-25	% 🔿 26-50% 🔿 51-75% 🔿 76-100% Size (inche	s) Describe
Unlisted-See-Comments	○ 1-25	% 🔿 26-50% 🔿 51-75% 🔿 76-100% Size (inche	s) Describe
Unlisted-See-Comments	○ 1-25	% 🔿 26-50% 🔿 51-75% 🔿 76-100% Size (inche	s) Describe
Invertebrates at Re	eef (Cli	ck on the hyper-links below for ide	entification)
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	○ 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	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Sea-Slug	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
✓ <u>Sea-Star</u>	1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Sea-Urchin	○ 1	○ 2-10	Comments
Shrimp-?	○ 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-?	○ 1	● 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments Atl Deer Cowry
Snail-?	<u> </u>	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Unlisted-See-Comments	<u> </u>	○ 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

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

Dolphin?	○ 1	○ 2-10	○ 11-100	○ 101+	Length (inches)	Comments	
Turtle-Loggerhead	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
Turtle?	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
Whale?	<u> </u>	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
Unlisted-See-Comments	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments	

☑ Other Observations/Photos:

Observations

Primary objective was Lionfish removal.

Photos?	Yes	Attached?	Yes
Video?	Yes		

Print Form



Image Field



Image Field



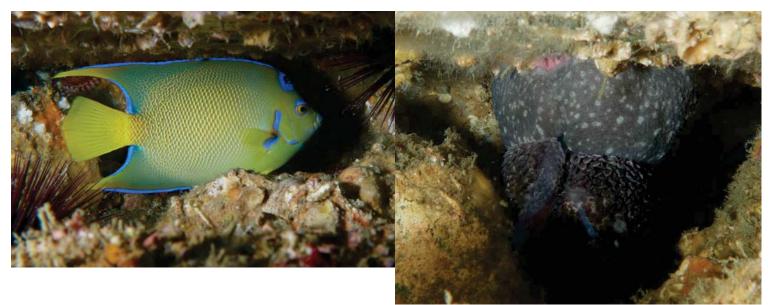


Image Field





Image Field

Image Field

Image Field

Image Field