MBARA Diver's Reef Survey Form Rev 11 May 2013	Clear Form
Reef Number and Name 61 Beanie & Hosehead Reef	
Latitude (00 00.000) Longitude (00 00.000) Was published lat/lon correct?	Yes
GPS Manufacturer & Model: Garmin 188C	
Sonar Depth (feet) 24 Survey Date Nov 11, 2013 Time	
Weather Conditions Sunny Sea Condition 1 ft	
Boat Name Bobcat Bob Cox	
Dive Leader Bob Cox	
Dive Team Members Carol Cox	
Depth Gauge Depth (feet) 24 Diver Bottom Time (minutes)	
Water Temp Surface (Fahrenheit) 70 Water Temp Bottom (Fahrenheit) 68	
Water Visibility Surface (feet) 20 Water Visibility Bottom (feet)	
Thermocline Depth (feet) Current Direction Current Speed (knots)	
Other Water Column Characteristics (check all that apply)	
$_{\square}$ Plankton $_{\square}$ Algae $_{\square}$ Jellyfish $_{\square}$ Turbid $_{\square}$ Other	
Bottom Composition (check all that apply)	
⊠ Sand ☐ Silt ☐ Mud ☐ Gravel ⊠ Shell ☐ Other	
Reef Materials & Quantity 10 Reef Balls	
Reef Height at Highest Point (measured from base to top of the reef)(feet) 2	
Physical Condition (Durability, stability, storm damage, other damage or movement):	
 No damage ○ Minor damage ○ Moderate damage ○ Major damage No movement ○ Minor movement ○ Moderate movement ○ Major movement 	ovement
Explain damage/movement and suspected cause Only one reef ball could be found	l and it

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	O 11-100	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)	O 1	O 2-10	<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
	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	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Flounder-Gulf	1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Filefish?	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
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?	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments

Grouper-Gag	O 1	<u> </u>	<u> </u>	<u> </u>	Length (inches)	Comments
Grouper-Goliath	O 1	<u> </u>	<u> </u>	<u> </u>	Length (inches)	Comments
Grouper-Graysby	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Grouper-Red	O 1	O 2-10	<u> </u>	O 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
✓ Grunt-Tomtate	1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Grunt-White	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓Grunt?	O 1	<u> </u>	11-100	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	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
 ✓ Jack-Blue-Runner	O 1	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
☐ Jack-Rainbow-Runner	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	2-10	<u> </u>	O 101+	Length (inches)	Comments Probably Inshore
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?	1	<u> </u>	<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

Porgy-Sheepshead	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Porgy?	O 1	<u> </u>	<u> </u>	O 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>	O 101+	Length (inches)	Comments
Puffer?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Ray?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Shark?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Sharksucker-Sharksucker	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Sharksucker-Whitefin	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Sand-Perch	O 1	2-10	<u> </u>	O 101+	Length (inches)	Comments
✓ <u>Seabass-Bank</u>	O 1	<u> </u>	11-100	O 101+	Length (inches)	Comments
Seabass-Belted-Sandfish	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Seabass-Black	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Seabass-Pygmy	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Seabass?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Snapper-Gray	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Snapper-Lane	O 1	2-10	<u> </u>	O 101+	Length (inches)	Comments
Snapper-Red	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Snapper-Vermillion	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Snapper?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Soapfish-Whitespotted	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Spadefish-Atlantic	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Toadfish-Leopard	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Triggerfish-Gray	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Wrasse-Slippery-Dick	O 1	<u> </u>	O 11-100	O 101+	Length (inches)	Comments
✓ Unlisted-See-Comments	1	<u> </u>	O 11-100	O 101+	Length (inches)	Comments Clearnosed skate
✓ Unlisted-See-Comments	O 1	<u> </u>	11-100	○ 101+	Length (inches)	Comments Pearly Razorfish
✓ Unlisted-See-Comments	O 1	2-10	<u> </u>	O 101+	Length (inches)	Comments Seminole goby

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% ○ 51-75% ○ 76-100% Size (inches) **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 Coral-Gorgonian 1-25% 26-50% 51-75% 76-100% Size (inches) 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 1 O 2-10 O 11-100 O 101+ 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 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 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 O 2-10 O 11-100 O 101+ Comments Size (inches) ✓ Sea-Star \bigcirc 1 ● 2-10 ○ 11-100 ○ 101+ Comments Beaded Sea Star Size (inches) Sea-Urchin O 2-10 O 11-100 O 101+ \bigcirc 1 Size (inches) Comments

Snail-Atlantic-Hairy-Triton	1	O 2-10	O 11-100	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	1 0 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	eathers,	/Mamn	nals (Clic	k on the	hyper-linl	ks 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
✓ Other Observation	ons/Pho	otos:				
experience sight shou constructi	ed scouring Id continue	and than b	ourying. The our excavation	other 9 reef ba and re-emerg	alls have comple gence of the ree	and bottom. It appears that all 10 reef balls tely buried out of sight. Observation of this balls over time. Additionally, future reef ble to scouring and burying effects.
Photos? Yes Attached						

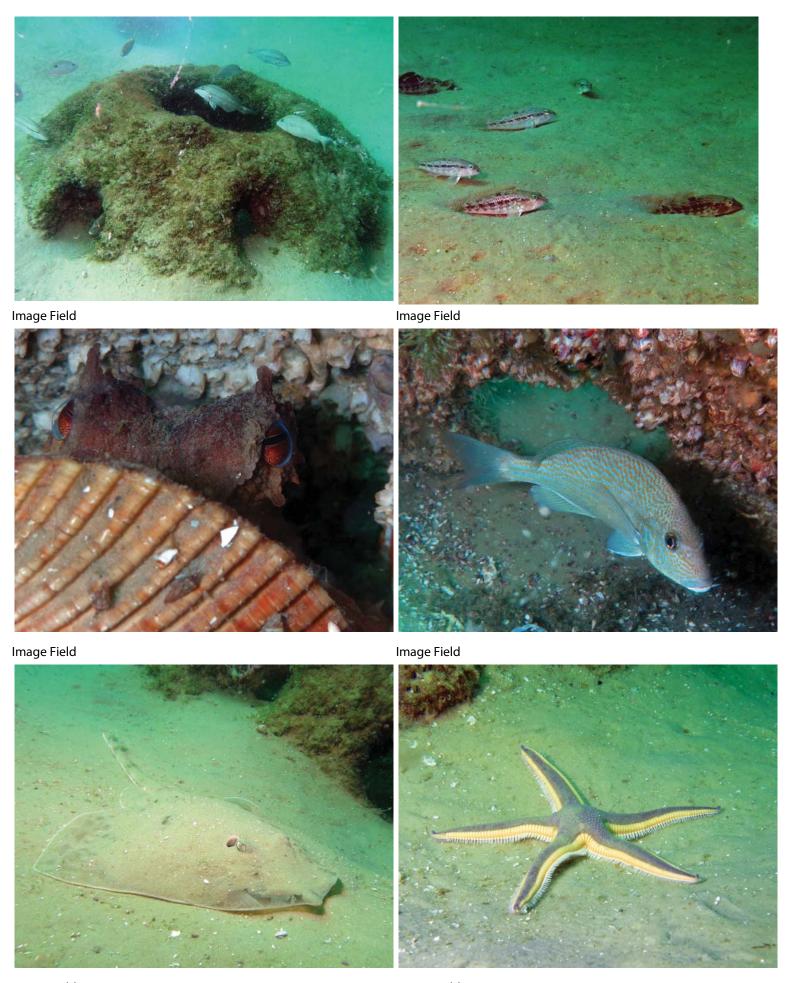
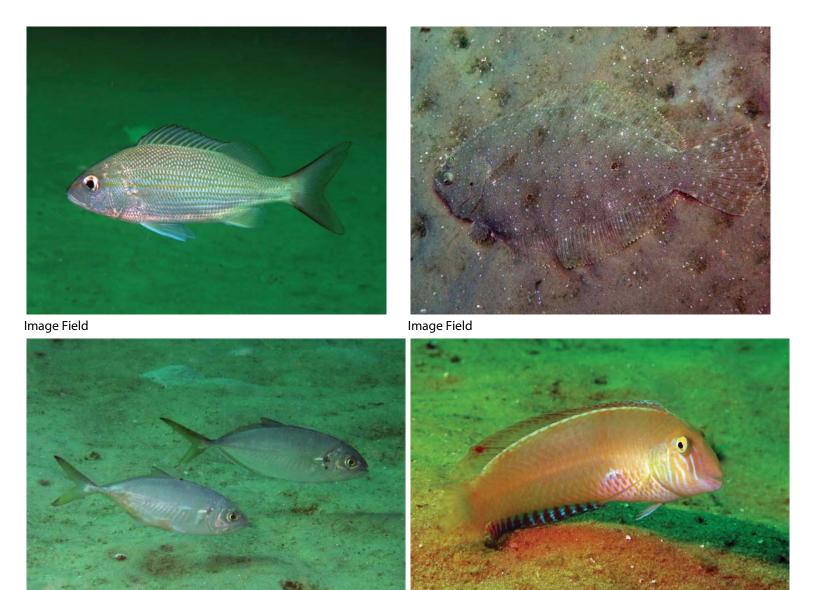


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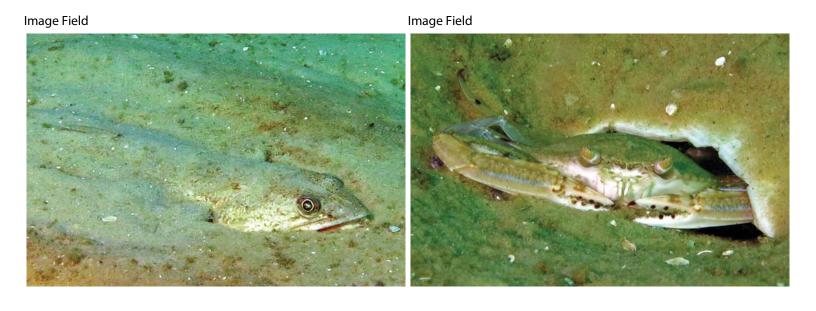


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