MBARA Diver's Reef Survey Form Rev 11 May 2013 Clear Form								
Reef Number and Name 42 Spanish Reef								
Latitude (00 00.000) Longitude (00 00.000) 85 31.930 Was published lat/lon correct? No								
GPS Manufacturer & Model: Garmin 188C								
Sonar Depth (feet) 57 Survey Date Sep 7, 2014 Time 1250								
Weather Conditions Sunny Sea Condition 1 ft								
Boat Name Bob Cat Boat Captain Bob Cox								
Dive Leader Bob Cox								
Dive Team Members Carol Cox Brian and Kimberly Higdon								
Depth Gauge Depth (feet) 60 Diver Bottom Time (minutes) 48								
Water Temp Surface (Fahrenheit) 86 Water Temp Bottom (Fahrenheit) 84								
Water Visibility Surface (feet) 40 Water Visibility Bottom (feet) 30								
Thermocline Depth (feet) Current Direction Current Speed (knots)								
Other Water Column Characteristics (check all that apply)								
\Box Plankton \Box Algae \Box Jellyfish $oxdot$ Turbid \Box Other								
Bottom Composition (check all that apply)								
Sand □ Silt □ Mud □ Gravel □ Shell □ Other □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □								
Reef Materials & Quantity 7 reefballs (didn't find 2), flat metal								
Reef Height at Highest Point (measured from base to top of the reef)(feet)								
Physical Condition (Durability, stability, storm damage, other damage or movement):								
 No damage	ovement							
Explain damage/movement and suspected cause								

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

Angelfish-Blue	O 1	O 2-10	<u> </u>	<u> </u>	Length (inches)	Comments
Angelfish-Queen	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Barracuda-Great	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Barracuda-Guaguanche	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
▼ Batfish-Polka-Dot	1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Blenny-Molly-Miller	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Blenny-Seaweed	O 1	<u> </u>	11-100	O 101+	Length (inches)	Comments
Blenny-Tessellated	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Blenny?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Butterflyfish-Spotfin	O 1	2-10	<u> </u>	O 101+	Length (inches)	Comments
Butterflyfish?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Cardinalfish-Two-Spot	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Chromis-Purple-Reeffish	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Chromis-Yellowtail- Reeffish	O 1	<u> </u>	<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	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Damselfish-Cocoa	O 1	<u> </u>	11-100	O 101+	Length (inches)	Comments
Damselfish?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Dolphin?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Drum-Cubbyu	O 1	<u> </u>	11-100	O 101+	Length (inches)	Comments
Drum-Jackknifefish	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Eel?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Flounder-Gulf	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Filefish?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Frogfish-Ocellated	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
 Goby-Spotted	<u> </u>	<u> </u>	11-100	O 101+	Length (inches)	Comments
✓ Goby?	1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments Goldspot Goby

√ Grouper-Gag	O 1	2-10	<u> </u>	O 101+	Length (inches) 16	Comments
Grouper-Goliath	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Grouper-Graysby	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Grouper-Red	<u> </u>	<u> </u>	<u> </u>	○ 101+	Length (inches)	Comments
Grouper-Rock-Hind	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Grouper-Scamp	<u> </u>	2-10	<u> </u>	O 101+	Length (inches) 14	Comments
Grunt-Juvenile	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Grunt-Tomtate	<u> </u>	<u> </u>	<u> </u>	101+	Length (inches)	Comments
Grunt-White	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Grunt?	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
☐ 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	<u> </u>	11-100	O 101+	Length (inches)	Comments
☐ Jack-Greater-Amberjack	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
<u> □Jack-Lookdown</u>	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
☐ Jack-Rainbow-Runner	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Jack-Round-Scad-Cigar- Minnow	O 1	<u> </u>	<u> </u>	101+	Length (inches)	Comments
Jack?	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
✓ Lionfish	O 1	2-10	<u> </u>	O 101+	Length (inches) 7	Comments 5 killed
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	1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
<u>Mahi</u>	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Minnows-Glass-Small-Fry	<u> </u>	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Pinfish?	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Porgy-Saucereye	<u> </u>	<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	2-10	<u> </u>	O 101+	Length (inches)	Comments
✓ Seabass-Belted-Sandfish	O 1	2-10	<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	2-10	<u> </u>	O 101+	Length (inches)	Comments
Snapper-Lane	\bigcirc 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Snapper-Red	\bigcirc 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	2-10	<u> </u>	O 101+	Length (inches)	Comments
Spadefish-Atlantic	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
▼ Toadfish-Leopard	O 1	2-10	<u> </u>	O 101+	Length (inches)	Comments
 ✓ Triggerfish-Gray	O 1	2-10	<u> </u>	O 101+	Length (inches)	Comments
✓ Wrasse-Slippery-Dick	O 1	<u> </u>	11-100	O 101+	Length (inches)	Comments
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
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 **✓** Anemone Describe ○ 1-25% **③** 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 ○ 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) Coral-Gorgonian Describe **✓** 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 ✓ Unlisted-See-Comments Describe tunicates 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 \bigcirc 1 ○ 2-10 ○ 11-100 ○ 101+ Comments Size (inches) \bigcirc 1 ○ 2-10 **○** 11-100 ○ 101+ Size (inches) Comments ○ 2-10 ○ 11-100 ○ 101+ Crab? \bigcirc 1 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** ○ 2-10 ○ 11-100 ○ 101+ \bigcirc 1 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 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> </u>	<u> </u>	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	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 Bre	athers,	/Mamm	als (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>	O 11-100	O 101+	Size (inches)	Comments
Unlisted-See-Comments	O 1	<u> </u>	O 11-100	O 101+	Size (inches)	Comments
Unlisted-See-Comments	O 1	<u> </u>	O 11-100	O 101+	Size (inches)	Comments
Other Observatio	ns/Pho	otos:				
Observations						
Photos? Yes Attached	Yes					
Video? Yes						

Print Form



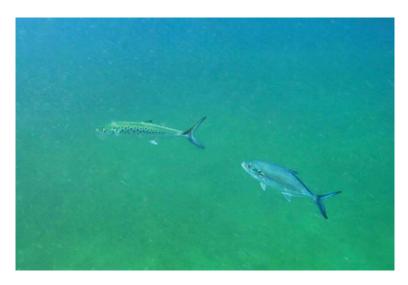


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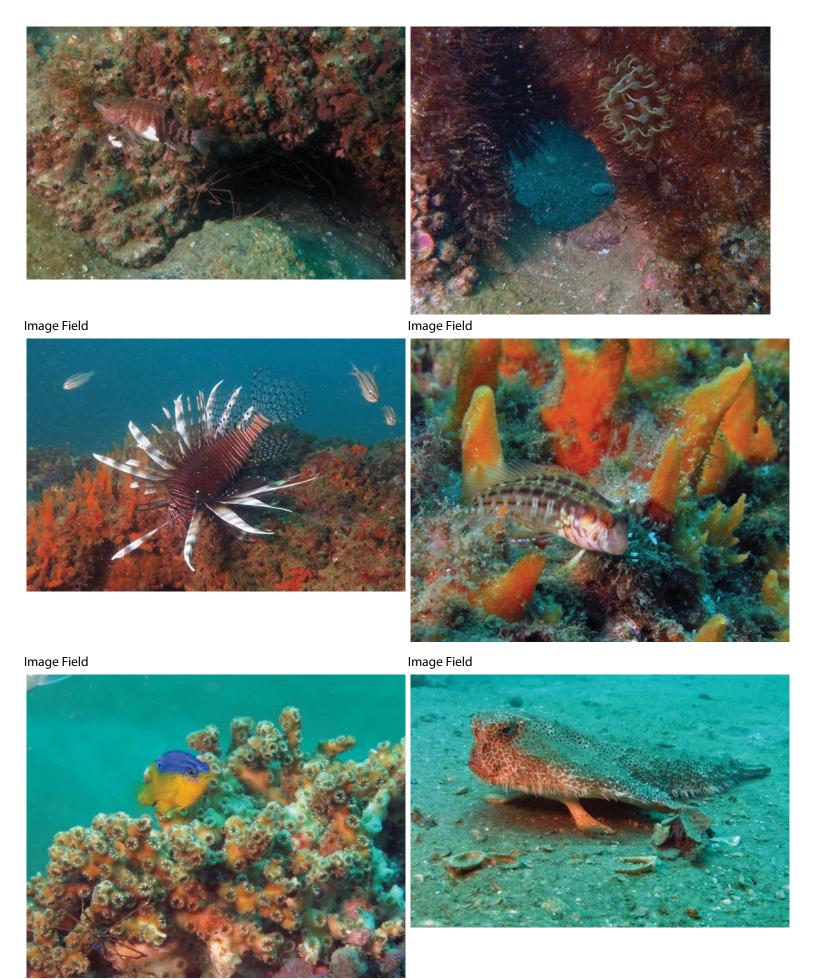


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