MBARA Diver's Reef Survey Form Rev 11 May 2013							
Reef Number and Name 98 Charlie Parker Memorial Reef							
Latitude (00 00.000)							
GPS Manufacturer & Model: Garmin 188C							
Sonar Depth (feet) 97 Survey Date Jul 3, 2016 Time 1130							
Weather Conditions Mostly sunny Sea Condition 2 ft							
Boat Name Bob Cat Boat Captain Bob Cox							
Dive Leader Bob Cox							
Dive Team Members Carol Cox, Brian Higdon, Ron Childs, Brant Bushnell							
Depth Gauge Depth (feet) 101 Diver Bottom Time (minutes) 25							
Water Temp Surface (Fahrenheit) 85 Water Temp Bottom (Fahrenheit) 72							
Water Visibility Surface (feet) 8 Water Visibility Bottom (feet) 20							
Thermocline Depth (feet) 65 Current Direction Current Speed (knots)							
Other Water Column Characteristics (check all that apply)							
☐ Plankton ☐ Algae ☐ Jellyfish ☐ Turbid ☐ Other							
Bottom Composition (check all that apply)							
⊠ Sand □ Silt □ Mud □ Gravel □ Shell □ Other □							
Reef Materials & Quantity 5 FL Special Pyramids, 4 FLAR							
Reef Height at Highest Point (measured from base to top of the reef)(feet) 10							
Physical Condition (Durability, stability, storm damage, other damage or movement):							
<ul> <li>○ No damage</li></ul>	ement						
Explain damage/movement and suspected cause 2 on side but intact							

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

•		,,			•	
✓ Angelfish-Blue	O 1	<ul><li>2-10</li></ul>	<u> </u>	O 101+	Length (inches)	Comments
Angelfish-Queen	<u> </u>	<u> </u>	<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
<b>✓</b> Batfish-Polka-Dot	O 1	<ul><li>2-10</li></ul>	<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>	<u> </u>	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	<u> </u>	<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	<ul><li>2-10</li></ul>	<u> </u>	O 101+	Length (inches)	Comments
Cobia (Ling)	<u> </u>	<u> </u>	<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>	<u> </u>	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>	<ul><li>11-100</li></ul>	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	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Filefish?	<u> </u>	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

<b>✓</b> Grouper-Gag	<ul><li>1</li></ul>	$\circ$	2-10	O 11-10	0 ( 101+	Length (inches)	Comments
<b></b> ✓ Grouper-Goliath	<ul><li>1</li></ul>	$\circ$	2-10	<u> </u>	0 ( 101+	Length (inches) 3-5 ft	Comments
Grouper-Graysby	<u> </u>	$\circ$	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments
Grouper-Red	O 1	$\circ$	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments
Grouper-Rock-Hind	<u> </u>	$\circ$	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments
Grouper-Scamp	O 1	$\circ$	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments
Grunt-Juvenile	<u> </u>	$\circ$	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments
<b>✓</b> Grunt-Tomtate	<u> </u>	$\circ$	2-10	<u> </u>	0 • 101+	Length (inches)	Comments
Grunt-White	<u> </u>	$\circ$	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments
Grunt?	O 1	0	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments
Hogfish	<u> </u>	0	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments
Hogfish-Spanish	<u> </u>	$\circ$	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments
✓ Jack-Almaco-Lesser-AJ	<u> </u>	$\circ$	2-10	<ul><li>11-10</li></ul>	0 ( 101+	Length (inches)	Comments
Jack-Blue-Runner	O 1	$\circ$	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments
<b></b> ✓ Jack-Greater-Amberjack	O 1	$\circ$	2-10	O 11-10	0 • 101+	Length (inches)	Comments
<u> □Jack-Lookdown</u>	O 1	$\circ$	2-10	O 11-10	0 ( 101+	Length (inches)	Comments
Jack-Rainbow-Runner	O 1	$\circ$	2-10	O 11-10	0 ( 101+	Length (inches)	Comments
Jack-Round-Scad-Cigar- Minnow	<u> </u>	$\circ$	2-10	O 11-10	0 ( 101+	Length (inches)	Comments
□Jack?	O 1	$\circ$	2-10	O 11-10	0 ( 101+	Length (inches)	Comments
Lionfish	O 1	$\circ$	2-10	<ul><li>11-10</li></ul>	0 ( 101+	Length (inches)	Comments Killed many
Lizardfish?	O 1	$\circ$	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments
Mackeral-King	O 1	$\circ$	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments
Mackeral-Spanish	O 1	$\circ$	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments
<u>Mahi</u>	O 1	$\circ$	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments
Minnows-Glass-Small-Fry	O 1	$\circ$	2-10	O 11-10	0 ( 101+	Length (inches)	Comments
Pinfish?	O 1	$\circ$	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments
Porgy-Saucereye	O 1	$\circ$	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments
Porgy-Sheepshead-Porgy	<u> </u>	$\circ$	2-10	<u> </u>	0 ( 101+	Length (inches)	Comments

Porgy-Sheepshead	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Porgy?	O 1	O 2-10	<u> </u>	O 101+	Length (inches)	Comments
Puffer-Bandtail	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
<b>V</b> Puffer-Sharpnose	O 1	<ul><li>2-10</li></ul>	<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	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
Seabass-Bank	O 1	<u> </u>	<u> </u>	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>	<ul><li>11-100</li></ul>	O 101+	Length (inches)	Comments
Snapper-Lane	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
✓ Snapper-Red	O 1	<u> </u>	<u> </u>	<ul><li>101+</li></ul>	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	<ul><li>2-10</li></ul>	<u> </u>	O 101+	Length (inches)	Comments
Spadefish-Atlantic	O 1	<u> </u>	<u> </u>	O 101+	Length (inches)	Comments
<b>▼</b> Toadfish-Leopard	O 1	<ul><li>2-10</li></ul>	<u> </u>	O 101+	Length (inches)	Comments
<b></b> ✓ Triggerfish-Gray	O 1	<ul><li>2-10</li></ul>	<u> </u>	O 101+	Length (inches)	Comments
Wrasse-Slippery-Dick	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
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 ● 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 **▼**Coral-Colorful-Sea-Whip ● 1-25% ○ 26-50% ○ 51-75% ○ 76-100% Size (inches) 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 ○ 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) tunicates 7 ✓ 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 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) Crab-Yellowline-Arrow $\bigcirc$ 1 ○ 2-10 ○ 11-100 ○ 101+ Size (inches) Comments ○ 2-10 **○** 11-100 ○ 101+ Comments hermit crabs ✓ Crab? $\bigcirc$ 1 Size (inches) Lobster-Shovelnose $\bigcirc$ 1 O 2-10 O 11-100 O 101+ 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 $\bigcirc$ 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)

○ 2-10 11-100 101+

Size (inches)

 $\bigcirc$  1

**✓** Sea-Urchin

Comments

Snail-Atlantic-Hairy-Triton	$\bigcirc$ 1	<u>2-10</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	nals (Clic	k on the	hyper-links belo	w 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 Observatio	ns/Pho	tos:				
Observations						
Photos? Yes Attached?						
Video?	Yes					
No						

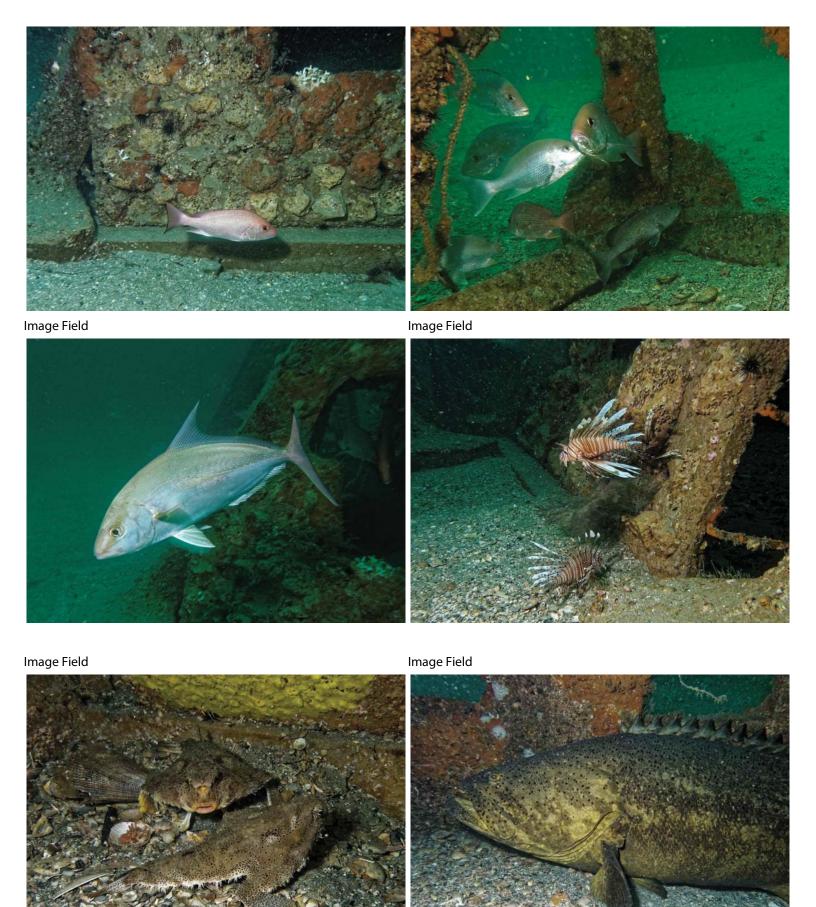


Image Field Image Field



Image Field



Image Field





Image Field Image Field

Image Field Image Field

Image Field Image Field Image Field Image Field

Image Field Image Field

Image Field

Image Field

Image Field

Image Field

Image Field Image Field