

Great Goliath Grouper Count: Survey Data

Date: _____

Site name: _____

Dive# _____ of day

Lat: _____

Long: _____

Captain: _____

Crew: _____

Diver names: _____

Topside conditions:

Cloud cover (%): _____ Wind Spd & Dir: _____ Wave height (ft): _____

Site type (check one):

Shipwreck

Concrete pilings

Boulder field

Other (explain):

Survey Type (check one):

Transect

Roving Diver

Total Bottom Time: _____

Maximum number of Goliath grouper observed (during a single replicate): _____

Additional comments/ Other fish present/ etc.: _____

Dive Data

Site Name: _____

Time in: _____ **Time out:** _____ **# of replicates:** _____

Survey type (check one): **Transect** **Roving Diver**

Transect length (if applicable): _____ **ft/m**

Shipwreck (check one): **intact** **broken up**

or Rubble (check one): **scattered** **solid** **% of survey over hard bottom:** _____

Max depth (ft): _____ **Min depth (i.e, max relief):** _____ **ft**

Visibility (ft): _____

Replicate 1 start: _____ **Rep 1 end:** _____ **# GG:** _____

Replicate 2 start: _____ **Rep 2 end:** _____ **# GG:** _____

Replicate 3 start: _____ **Rep 3 end:** _____ **# GG:** _____

Ascent time: _____

GG number Total length (check one) Comments/behavior (check all that apply)

<u>GG number</u>	<u>Total length (check one)</u>			<u>Comments/behavior (check all that apply)</u>					
_____	<3ft	3-5ft	>5ft	R	B	S	C	O	other:
_____	<3ft	3-5ft	>5ft	R	B	S	C	O	other:
_____	<3ft	3-5ft	>5ft	R	B	S	C	O	other:
_____	<3ft	3-5ft	>5ft	R	B	S	C	O	other:
_____	<3ft	3-5ft	>5ft	R	B	S	C	O	other:
_____	<3ft	3-5ft	>5ft	R	B	S	C	O	other:
_____	<3ft	3-5ft	>5ft	R	B	S	C	O	other:
_____	<3ft	3-5ft	>5ft	R	B	S	C	O	other:
_____	<3ft	3-5ft	>5ft	R	B	S	C	O	other:
_____	<3ft	3-5ft	>5ft	R	B	S	C	O	other:
_____	<3ft	3-5ft	>5ft	R	B	S	C	O	other:
_____	<3ft	3-5ft	>5ft	R	B	S	C	O	other:
_____	<3ft	3-5ft	>5ft	R	B	S	C	O	other:
_____	<3ft	3-5ft	>5ft	R	B	S	C	O	other:
_____	<3ft	3-5ft	>5ft	R	B	S	C	O	other:

R = retreat B = booming S = stationary C = under cover O = out in open

MBARA Diver's Reef Survey Form

Updated 11 July 2010

Reef Site Name: MB 71 95 Reef Balls

Position Readings:

GPS Manufacturer & model: Garmin 188C

N Lat.: 29 53.803 W Lon.: 85 31.993

Sonar Depth: 49'

Survey Date & Time: 14 Jul 2010/1430

Weather conditions and sea state: Partly Cloudy/ 2-3'

Boat Name: Bobcat

Boat Captain: Bob Cox

Dive Leader: Bob Cox

Dive Team Members: Carol Cox

Diver Observations

Computer/Depth Gauge Depth: 51''

Diver Bottom Time on Survey: 1:01

Water Temp: Surface: 85F Bottom: 72F

Water Visibility: Surface: 50' Bottom: 50'

Thermocline Depth: 40'

Current direction and speed: Surface W @ 1kt

Other noted water column characteristics (plankton, algae, jellyfish, turbidity, etc): Small suspended particles and globs of organic dead matter.

Description of Bottom Composition (sand, silt, mud, gravel, shell, etc):

Sand/Shell

Description of Reef Materials & Quantity: 95 Reef Balls

Reef Height (highest point): 8'

Reef Physical Condition (Durability and Stability): Excellent

Storm damage or movement? If yes, describe: None

Other damage or movement? If yes, describe: 1 reef ball broken during deployment.

Fish Count:

Species:	Quantity	Size
Angelfish, Queen	1	10"
Angelfish, Blue	25	10-15"
Baitfish - Round Scad (Cigar Minnows)	10,000+	2-3"
Baitfish - Glass Minnow (Bay Anchovy)		
Baitfish - Menhaden		
Baitfish - Pinfish		
Baitfish, species?		
Barracuda - Guaguanche		
Barracuda-Great		
Batfish, Polka-Dot		
Blenny, Molly Miller		
Blenny, Seaweed	50	1-2"
Blenny, Tessallated		
Bonito		
Butterflyfish, Reef		
Butterflyfish, Spotfin	1	1"
Cardinalfish, Two-Spot	15	1"
Cobia (Ling)		
Cowfish, Scrawled		
Croaker, Atlantic		
Chromis - Purple Reeffish		
Chromis - Yellowtail Reeffish	50	1-2"
Damselfish - Cocoa	20	1-4"
Damselfish sp?		
Dolphin, sp?		
Drum - Cubbyu	100	2-10"
Eel, species?		
Flounder, Gulf	8	12-22"
Frogfish, Ocellated		
Goby, Blue		
Goby, Bridled		
Goby, species?		
Grouper, Gag	200+	8-24"
Grouper, Goliath	1	26"
Grouper, Red	1	28"
Grouper, Rock Hind		

Grouper, Scamp	10	10-12"
Grunt - Tomtate	10,000+	2-8"
Grunt, White	4	2-12"
Grunt, sp?		
Jack - Blue Runner (Hard Tail)	200+	6-8"
Jack - Greater Amberjack	10	14-20"
Jack sp?		
Jack, Almaco (Lesser)		
Jack, Lookdown		
Jack, Rainbow Runner		
Lizardfish, Blue-Lined		
Mackeral, King		
Mackeral, Spanish	40	18-24"
Mahi		
Margate, Black	20	14-18"
Porgy Saucereye	20	8-12"
Porgy - Sheepshead	10	12-16"
Puffer - Balloonfish		
Puffer, Sharpnose		
Ray, Manta		
Ray, Southern Stingray		
Remora (Sharksucker)	1	24"
Sailfish		
Seabass, Bank		
Seabass, Belted Sandfish	10	1-3"
Shark, Nurse	1	7-8'
Snapper, Bigeye		
Snapper, Gray (Black)	200	8-22"
Snapper, Red	40	10-16"
Snapper, Vermillion (Mingo)		
Soapfish, Whitespotted	60	6-8"
Spadefish, Atlantic	100	10-14"
Toadfish, Leopard		
Triggerfish, Gray	20	10-16"
Wrasse - Slippery Dick	30	1-2"

Other:

4 Juvenile Cottonwick Grunts 2"

Description of Biological Growth on Reef:

Species	Quantity/Area of Coverage (% of area or dimensions)	Size	Color
Algae			
Barnacles			
Christmas Tree Worm			
Coral - Colorful Sea Whip	20	12-18"	Purp
Coral - unk gorgonian	5	12-18"	Brn
Coral - White Telesto			
Bulb Anemone	20	3-6"	Brn/Gld
Tube Anemone	1	3"	Brw/Wht
Hard Corals-Assorted	5%	2-3"	Wht
Mussels			
Oyster, Purse	<1%	2-3"	
Scallops sp?			
Sponges	8% Pink and Encrusting Orange		

Other: Feather Dusters 5 1" Wht

Description of Invertebrates on Reef:

Species	Quantity	Size
Cowry - Atlantic Deer		
Cowry - Spotted Cyphoma		
Crab, Blue		
Crab, Rock		
Crab, Sargassum Swimming		
Crab, Stareye Hermit	5	.5-2"
Crab, Yellowline Arrow	10	2-3"
Crab, species?		
Lobster, Shovelnose		
Lobster, Spiny		
Sea Cucumber	10	10-12"
Sea Urchin, Variegated	10	2-3"
Sea Urchin, Rock Boring	500	2-3"
Snail - Atlantic Harry Triton	5	1.5"
Snail - Giant Eastern Murex		
Snail - Netted Olive		
Snail - Queen Helmet		
Snail - Spiny Murex		
Snail - True Tulip		
Snail- Florida Horse Conch		
Invertebrate, species?		

Other: Cowry, West Indian Simnia 5 .5"

Marine Amphibians:

Species	Quantity	Size	Color
Turtle, Loggerhead			
Turtle, Green			
Turtle, Leatherback			
Turtle, Species?			

Other:

Other Observations: The close proximity of these reef balls forms a massive reef holding large amounts of marine life and fish. Excellent site for divers to spend 30+ minutes. More reefs of this size should be considered to attract more recreational diver activity.











