

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 4 April 2010

Reef Site Name: MB-68 Smurfit Stone #1 Reef

Position Readings:

GPS Manufacturer & model: Garmin 188C

N Lat.: 29.54.741

W Lon.: 85.32.510

Sonar Depth: 59 feet

Survey Date & Time: 19 Sep 2010 1630

Weather conditions and sea state: Calm and Sunny

Boat Name: Bobcat

Boat Captain: Bob Cox

Dive Leader: Bob Cox

Dive Team Members: Carol Cox

Diver Observations

Computer/Depth Gauge Depth: 68 feet

Diver Bottom Time on Survey: :55

Water Temp: Surface: 87F

Bottom: 80F

Water Visibility: Surface: 15 ft

Bottom: 25 ft

Thermocline Depth: NA

Current direction and speed: NA

Other noted water column characteristics (plankton, algae, jellyfish, turbidity, etc): organic material and comb jellyfish

Description of Bottom Composition: Sand and shell

Description of Reef Materials & Quantity: 4 steel cylinders 13x24 ft and what appeared to be half of a concrete mixer drum

Reef Height (highest point): 10 feet

Reef Physical Condition (Durability and Stability): Excellent. Some scouring. One cylinder with mixer was about 1/2 filled with sand. Only found 3 of 4 cylinders due to visibility and dive time.

No visible storm damage or other type of damage.

Fish Count:

Species:	Quantity	Size
Angelfish, Queen		
Angelfish, Blue	6	14"
Baitfish - Round Scad (Cigar Minnows)	500+	2-3"
Baitfish - Glass Minnow (Bay Anchovy)		
Baitfish - Menhaden		
Baitfish - Piñfish		
Baitfish, species?		
Barracuda - Guaguanche		
Barracuda-Great		
Batfish, Polka-Dot	1	12"
Blenny, Molly Miller		
Blenny, Seaweed	20	2"
Blenny, Tessallated		
Butterflyfish, Reef		
Butterflyfish, Spotfin	4	1-2"
Cardinalfish, Two-Spot	1	1"
Cobia (Ling)		
Cowfish, Scrawled		
Croaker, Atlantic		
Chromis - Purple Reeffish		
Chromis - Yellowtail Reeffish		
Damselfish - Cocoa	8	1-2"
Damselfish sp?		
Dolphin, sp?		
Drum - Cubbyu	20	1-8"
Eel, species?		
Flounder, Gulf	12	14-18"
Frogfish, Ocellated		
Goby, Blue		
Goby, Bridled		
Goby, species? Spotted	4	2"
Grouper, Gag	100	12-24"
Grouper, Goliath	1	38"
Grouper, Red		
Grouper, Rock Hind		

Grouper, Scamp	2	8"
Grunt - Tomtate	1,000+	2-8"
Grunt, White	1	16"
Grunt, sp?		
Jack - Blue Runner (Hard Tail)	60	10"
Jack - Greater Amberjack	100	13-16"
Jack sp?		
Jack, Almaco (Lesser)		
Jack, Lookdown		
Jack, Rainbow Runner		
Lizardfish, Blue-Lined		
Mackeral, King		
Mackeral, Spanish	50	14-18"
Mahi		
Porgy sp? Saucereye	20	10-12"
Porgy - Sheepshead	8	14"
Puffer - Balloonfish		
Puffer, Sharpnose		
Ray, Manta		
Ray, Southern Stingray		
Remora (Sharksucker)		
Sailfish		
Seabass, Bank		
Seabass, Belted Sandfish	30	1-4"
Shark, sp?		
Snapper, Bigeye		
Snapper, Gray (Black)	30	10-14"
Snapper, Red	250	8-32"
Snapper, Vermillion (Mingo)	1,000+	2-3"
Soapfish, Whitespotted	15	1-6"
Spadefish, Atlantic	40	10"
Toadfish, Leopard		
Triggerfish, Gray	12	12"
Wrasse - Slippery Dick	40	1-4"

Other:

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	10%	2 ft	Purp
Coral - unk gorgonian			
Coral - White Telesto			
Bulb Anemone			
Tube Anemone			
Hard Corals-Assorted			
Mussells			
Oyster, sp? Wing	10 clumps	3"	
Scallops sp?			
Sponges			

Other:

Description of Invertebrates on Reef:

Species	Quantity	Size
Cowry - Atlantic Deer		
Cowry - Spotted Cyphoma		
Crab, Calico	1	4"
Crab, Rock		
Crab, Sargassum Swimming		
Crab, Stareye Hermit		
Crab, Yellowline Arrow	60	1-4"
Crab, species?	4	1"
Lobster, Shovelnose		
Lobster, Spiny		
Sea Cucumber		
Sea Slug, Species?		
Sea Urchin	100+	3"
Snail - Atlantic Harry Triton		
Snail - Giant Eastern Murex		
Snail - Netted Olive		
Snail - Queen Helmet		
Snail - Spiny Murex		
Snail - True Tulip		
Snail- Florida Horse Conch		
Red tipped fireworm	1	5"

Other:











