



# Long-Term Monitoring at the East and West Flower Garden Banks National Marine Sanctuary, 2009–2010

## Volume 2: Appendices



U.S. Department of the Interior  
Bureau of Ocean Energy Management  
Gulf of Mexico OCS Region

National Oceanic and Atmospheric Administration  
Flower Garden Banks National Marine Sanctuary



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## Volume 2: Appendices

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## ABOUT THE COVER

The cover photograph features Marissa Nuttall, a NOAA scientific diver from the Flower Garden Banks National Marine Sanctuary, following a compass heading while laying out a random transect line at the East Flower Garden Bank long-term monitoring study site. Photograph by John Embesi (NOAA FGBNMS).

# CONTENTS

<b>APPENDIX 1: Random Transect Percent Cover Data .....</b>	<b>1</b>
1A. Random transect percent cover data from 2009 at the EFGB.....	2
1B. Random Transect Percent Cover Data from 2010 at the EFGB.....	20
1C. Random Transect Percent Cover Data from 2009 at the WFGB .....	38
1D. Random Transect Percent Cover Data from 2010 at the WFGB .....	55
<b>APPENDIX 2: Schlerochronology Data from 2009 and 2010 at the FGB .....</b>	<b>73</b>
<b>APPENDIX 3: Diploria strigosa lateral growth comparable photo measurements from     2009 and 2010 at the FGB.....</b>	<b>77</b>
Diploria strigosa lateral growth comparable photo measurements from 2009 and 2010 at the FGB .....	79
<b>APPENDIX 4: Repetitive Quadrat Percent Cover Data .....</b>	<b>80</b>
4A.1. Repetitive Quadrat Percent Cover Data from 2009 at the EFGB .....	87
4A.2. Shannon-Weaver Index for the Repetitive Quadrat Percent Cover Data from 2009 at the EFGB .....	120
4B.1. Repetitive Quadrat Percent Cover Data from 2010 at the EFGB .....	876
4B.2. Shannon-Weaver Index for the Repetitive Quadrat Percent Cover Data from 2010 at the EFGB .....	138
4C.1. Repetitive Quadrat Percent Cover Data from 2009 at the WFGB .....	139
4C.2. Shannon-Weaver Index for the Repetitive Quadrat Percent Cover Data from 2009 at the WFGB.....	155
4D.1. Repetitive Quadrat Percent Cover Data from 2010 at the WFGB .....	156
4D.2. Shannon-Weaver Index for the Repetitive Quadrat Percent Cover Data from 2010 at the WFGB.....	189
<b>APPENDIX 5: Repetitive Quadrat Deep Station Percent Cover Data.....</b>	<b>191</b>
5A. Repetitive Quadrat Percent Cover Data from 2009 at the EFGB Deep Stations .....	193
5B. Repetitive Quadrat Percent Cover Data from 2010 at the EFGB Deep Stations .....	211



<b>APPENDIX 6: Water Quality Data.....</b>	<b>229</b>
6A. Sea-Bird and Hobo Daily Mean Water Temperature Data from 2009 and 2010 at the FGB (°C) .....	231
6B. Sea-Bird Daily Mean Salinity Data from 2009 and 2010 at the FGB (PPT) .....	245
<b>APPENDIX 7: Fish Survey Data from 2009 and 2010 at the FGB.....</b>	<b>259</b>
7. Fish Survey Data from 2009 and 2010 at the FGB .....	261

## **APPENDIX 1**

### **Random Transect Percent Cover Data**

# APPENDIX 1. RANDOM TRANSECT PERCENT COVER DATA

## 1A. RANDOM TRANSECT PERCENT COVER DATA FROM 2009 AT THE EFGB.

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Number of frames	39	25	41	39	25	32	32	39	43	37	41	19	30	27	21			
Total points	507	500	533	507	500	512	512	507	516	518	492	513	527	513	504			
Total points (minus tape+wand+shadow)	470	472	477	469	478	465	488	449	502	473	454	487	508	472	470			
<b>MAJOR CATEGORY (% of transect)</b>																<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
CORAL (C)	56.38	45.76	62.89	56.50	71.76	53.76	4.10	46.55	70.12	59.83	53.52	68.99	52.56	43.43	54.04	53.35	16.14	4.17
SPONGE (SP)	0.00	0.00	0.21	0.00	0.42	0.22	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.42	0.43	0.13	0.17	0.05
ENCrustING SPONGE (SPE)	0.21	0.00	0.00	0.00	0.00	1.29	0.20	0.00	0.00	1.27	0.00	0.00	0.20	0.42	0.00	0.24	0.44	0.11
MACROALGAE (M)	29.57	41.10	26.00	27.29	20.71	35.48	73.16	34.74	15.34	25.79	29.96	19.10	29.53	40.25	29.79	31.85	13.51	3.49
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.01
OTHER (O)	0.21	0.00	0.42	0.43	0.42	0.65	0.00	0.45	0.20	0.42	0.00	0.41	0.59	0.42	0.21	0.32	0.21	0.05
SUBSTRATE (SUB)	13.62	12.92	10.06	11.09	6.69	8.60	21.93	18.04	14.34	12.47	16.52	11.09	17.13	15.04	13.40	13.53	3.89	1.01
SAND (SAND)	0.00	0.21	0.42	4.69	0.00	0.00	0.61	0.22	0.00	0.00	0.00	0.21	0.00	0.00	2.13	0.57	1.27	0.33
TAPE, WAND, SHADOW (TWS)	7.30	5.60	10.51	7.50	4.40	9.18	4.69	11.44	2.71	8.69	7.72	5.07	3.61	7.99	6.75	6.88	2.52	0.65
Sum (excluding tape+shadow+wand)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			
<b>SUBCATEGORIES (% of transect)</b>																<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
<b>CORAL (C)</b>																		
Acropora palmata (ACPA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agaricia agaricites (AGAG)	0.00	0.00	0.00	0.00	2.51	0.22	0.20	0.89	0.00	0.21	0.22	0.21	0.00	0.21	0.21	0.33	0.64	0.17
Agaricia fragilis (AGFR)	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.01
Agaricia lamarcki (AGLA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agaricia sp (AGSP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agaricia undata (AGUN)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Colpophyllia amaranthus (COAM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.06	0.22	0.06
Colpophyllia natans (CONA)	4.68	0.00	10.06	12.15	0.00	4.52	0.00	4.90	4.98	0.00	0.44	0.00	0.00	2.12	4.26	3.21	3.86	1.00
Colpophyllia sp (COSP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichocoenia stokesi (DISTO)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diploria strigosa (DIST)	13.62	2.12	0.00	12.58	28.87	22.37	0.00	6.01	0.00	5.07	0.44	18.48	21.46	2.12	18.09	10.08	9.83	2.54
Eusmilia sp (EUSP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Leptoseris cucullata (LECU)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Madracis asperula (MAAS)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Madracis brueggemanni (MABR)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Madracis cf formosa (MAFO)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Madracis decactis (MADE)	0.21	0.00	0.21	0.00	0.00	0.22	0.41	1.11	0.00	0.21	0.22	0.00	0.00	0.21	0.43	0.22	0.29	0.07

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Madracis mirabilis (MAMI)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Madracis myriaster (MAMY)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Madracis pharensis (MAPH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Madracis sp (MASP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Madrepora carolina (MADCA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Madrepora sp (MADSP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Millepora alcicornis (MIAL)	0.00	2.12	0.00	0.43	1.05	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.25	0.59	0.15
Montastraea annularis (MOAN)	0.00	5.93	0.00	0.00	0.42	0.65	0.00	1.11	17.33	0.00	13.44	0.00	3.74	0.00	0.00	2.84	5.42	1.40
Montastraea annularis species complex (MASC)	2.98	0.21	11.74	2.99	17.99	8.17	0.41	0.89	1.00	6.13	2.64	0.21	5.12	5.08	0.21	4.38	5.05	1.30
Montastraea cavernosa (MOCA)	0.64	0.00	1.47	1.71	3.56	2.15	0.00	0.00	11.95	4.44	2.20	17.04	1.97	4.03	2.55	3.58	4.74	1.22
Montastraea faveolata (MOFA)	14.89	0.00	15.30	0.00	8.37	2.37	1.43	0.00	8.76	0.00	3.74	0.00	0.59	1.48	0.00	3.80	5.42	1.40
Montastraea franksi (MOFR)	16.81	34.11	22.85	19.83	5.02	8.17	0.41	16.04	21.51	21.35	27.31	26.90	13.19	20.97	22.98	18.50	8.90	2.30
Mussa angulosa (MUAN)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.21	0.00	0.21	0.00	0.10	0.29	0.07
Oculina sp (OCSP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oxysmilia rotundifolia (OXRO)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oxysmilia sp (OXSP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paracyanthus pulchellus (PAPU)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Porites astereoides (POAS)	1.49	0.64	1.26	5.97	2.09	2.15	1.23	13.36	4.58	18.82	2.42	4.93	6.30	3.39	5.32	4.93	4.99	1.29









TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Turf Algae Matrix (TURF)	20.43	20.55	9.22	14.71	1.67	8.60	14.14	16.04	8.57	8.46	15.86	1.23	13.39	13.56	11.28	11.85	5.72	1.48
Unknown MacroAlgae I (MA1)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown MacroAlgae II (MA2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown MacroAlgae III (MA3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>UNKNOWN (U)</b>																		
Unknown Species I (UNK1)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.01
Unknown Species II (UNK2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Species III (UNK3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>OTHER (O)</b>																		
Fireworm (FW)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fish (FISH)	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.21	0.04	0.09	0.02
Invertebrate (INVERT)	0.21	0.00	0.42	0.21	0.42	0.65	0.00	0.45	0.20	0.42	0.00	0.41	0.39	0.42	0.00	0.28	0.21	0.05
Urchin (URCHIN)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>SUBSTRATE (SUB)</b>																		
Bare Substrate (BARE)	3.19	1.48	2.52	1.28	3.35	1.72	10.66	9.80	8.17	3.38	11.01	5.54	12.80	7.84	9.15	6.13	3.97	1.02
Coral Rubble (CRUB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crustose Coralline Algae (CCA)	4.68	4.03	2.73	3.41	0.42	0.22	3.89	4.01	3.19	4.65	2.20	1.03	0.98	0.64	2.13	2.55	1.58	0.41
Fine Turf (FINE)	5.74	7.42	4.82	6.40	2.93	4.09	7.17	4.23	2.99	4.23	3.30	4.52	3.35	6.36	2.13	4.64	1.64	0.42
Substrate Rubble (RUB)	0.00	0.00	0.00	0.00	0.00	2.58	0.20	0.00	0.00	0.21	0.00	0.00	0.00	0.21	0.00	0.21	0.66	0.17

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR	
<b>SAND (SAND)</b>																			
Sand (SAND)	0.00	0.21	0.42	4.69	0.00	0.00	0.61	0.22	0.00	0.00	0.00	0.21	0.00	0.00	2.13	0.57	1.27	0.33	
<b>TAPE, WAND, SHADOW (TWS)</b>																			
Diver (DIVER)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Monofilament (MONO)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
No Data (N/D)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Shadow (SHADOW)	6.11	5.60	10.13	7.50	2.60	6.45	3.91	9.47	2.13	7.92	7.72	3.12	3.23	7.60	5.95	5.96	2.50	0.65	
Tag (TAG)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Tape (TAPE)	1.18	0.00	0.38	0.00	1.80	2.73	0.78	1.97	0.58	0.77	0.00	1.56	0.00	0.00	0.00	0.78	0.88	0.23	
Wand (WAND)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.38	0.39	0.79	0.13	0.24	0.06	
<b>NOTES (% of transect)</b>																			
																	<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
Bleached Coral (BL)	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.20	0.21	0.00	0.00	0.00	0.00	0.00	0.10	0.27	0.07	
Concentrated Fish Biting (CONCFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Damaged (DAM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Hyperplasias (HYPERP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Isolated Fish Biting (ISOFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.01	
Other Disease (OD)	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.01	
Over Grown with Algae (OV)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.01	0.05	0.01	
Paling Coral (PA)	0.21	0.00	0.21	0.00	0.42	0.00	0.00	0.00	0.00	3.38	2.42	0.00	0.00	0.00	0.00	0.44	1.02	0.26	
Recent Dead (RC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>NOTES (% of coral)</b>																			
Bleached Coral (BL)	0.00	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.28	0.35	0.00	0.00	0.00	0.00	0.00	0.14	0.38	0.10	



TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
SUBCATEGORIE S (occurring in transect)																MEAN	STD. DEV.	STD. ERROR
CORAL (C)																		
Acropora palmata (ACPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia agaricites (AGAG)	0	0	0	0	12	1	1	4	0	1	1	1	0	1	1	1.53	3.07	0.79
Agaricia fragilis (AGFR)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07	0.26	0.07
Agaricia lamarcki (AGLA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia sp (AGSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia undata (AGUN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Colpophyllia amaranthus (COAM)	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0.27	1.03	0.27
Colpophyllia natans (CONA)	22	0	48	57	0	21	0	22	25	0	2	0	0	10	20	15.13	18.24	4.71
Colpophyllia sp (COSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Dichocoenia stokesi (DISTO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Diploria strigosa (DIST)	64	10	0	59	138	104	0	27	0	24	2	90	109	10	85	48.13	47.36	12.23
Eusmilia sp (EUSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Leptoseris cucullata (LECU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis asperula (MAAS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis brueggemanni (MABR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Madracis cf formosa (MAFO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis decactis (MADE)	1	0	1	0	0	1	2	5	0	1	1	0	0	1	2	1.00	1.31	0.34
Madracis mirabilis (MAMI)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis myriaster (MAMY)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis pharensis (MAPH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis sp (MASP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madrepora carolina (MADCA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madrepora sp (MADSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Millepora alcicornis (MIAL)	0	10	0	2	5	0	0	0	0	1	0	0	0	0	0	1.20	2.78	0.72
Montastraea annularis (MOAN)	0	28	0	0	2	3	0	5	87	0	61	0	19	0	0	13.67	26.28	6.79
Montastraea annularis species complex (MASC)	14	1	56	14	86	38	2	4	5	29	12	1	26	24	1	20.87	24.09	6.22
Montastraea cavernosa (MOCA)	3	0	7	8	17	10	0	0	60	21	10	83	10	19	12	17.33	23.36	6.03
Montastraea faveolata (MOFA)	70	0	73	0	40	11	7	0	44	0	17	0	3	7	0	18.13	25.84	6.67
Montastraea franksi (MOFR)	79	161	109	93	24	38	2	72	108	101	124	131	67	99	108	87.73	42.09	10.87
Mussa angulosa (MUAN)	0	0	0	0	0	0	0	5	0	0	0	1	0	1	0	0.47	1.30	0.34
Oculina sp (OCSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Oxysmilia rotundifolia (OXRO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Oxysmilia sp (OXSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Paracyanthus pulchellus (PAPU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Porites astereoides (POAS)	7		6	28	10	10	6	60	23	89	11	24	32	16	25	23.33	23.30	6.02
Porites furcata (POFU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Scolymia cubensis (SCCU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Scolymia sp (SCSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Siderastrea radians (SIRA)	4	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.40	1.12	0.29
Siderastrea siderea (SISI)	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0.13	0.35	0.09
Siderastrea sp (SISP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Stephanocoenia intersepta (STIN)	0	3	0	3	2	0	0	2	0	0	0	2	0	9	0	1.40	2.41	0.62
Stephaocoenia sp (STSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Tubastrea coccinea (TUCO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral I (C1)	0	0	0	0	7	13	0	1	0	12	2	3	1	7	0	3.07	4.51	1.16
Unknown Coral II (C2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral III (C3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral IV (C4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral V (C5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral VI (C6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>SPONGE (SP)</b>																		
Agelas clathrodes (AGCL)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.13	0.35	0.09

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Aplysina species I (AP1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Arolochoiria (Pseudoceratina) crassa (ARCR)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.07	0.26	0.07
Callyspongia vaginalis (CAVA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla LIGHT brown (CHLB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla brown (CHB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla nucula (CHNU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ectyoplasia ferox (ECFE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Geodia gibberosa (GEGI)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ircinia felix (IRFE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ircinia strobilina (IRST)	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0.13	0.52	0.13
Mycale laxissima (MYLA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Neofibularia nolitangere (NENO)	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0.13	0.52	0.13
Niphates erecta (NIER)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Placospongia melobesioides (PLME)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge I (SP1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.07	0.26	0.07
Unknown Sponge II (SP2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge III (SP3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Unknown Sponge IV (SP4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge V (SP5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VI (SP6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VII (SP7)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VIII (SP8)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Xestospongia muta (XEMU)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.07	0.26	0.07
<b>ENCrustING SPONGE (SPE)</b>																		
Encrusting sponge (ENCRUST)	1	0	0	0	0	6	1	0	0	6	0	0	1	2	0	1.13	2.07	0.53
Spirastrella cunctatrix (SPCU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Encrusting Sponge I (SPE1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Encrusting Sponge II (SPE2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Encrusting Sponge III (SPE3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>MACROALGAE (M)</b>																		
Algae (ALGAE)	14	67	70	45	69	79	205	51	33	54	36	62	62	81	41	64.60	42.99	11.10
Dictyota sp. (DICT)	26	24	9	13	18	46	82	29	1	27	25	25	14	43	44	28.40	19.58	5.06
Filamentous Algae (F ALG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Lobophora variegata (LOVA)	3	6	1	1	4	0	1	4	0	1	3	0	6	2	2	2.27	2.02	0.52



TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Peysonnelia sp. (PEY)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Turf Algae Matrix (TURF)	96	97	44	69	8	40	69	72	43	40	72	6	68	64	53	56.07	26.70	6.89
Unknown MacroAlgae I (MA1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown MacroAlgae II (MA2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown MacroAlgae III (MA3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>UNKNOWN (U)</b>																		
Unknown Species I (UNK1)	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.07	0.26	0.07
Unknown Species II (UNK2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Species III (UNK3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>OTHER (O)</b>																		
Fireworm (FW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Fish (FISH)	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0.20	0.41	0.11
Invertebrate (INVERT)	1	0	2	1	2	3	0	2	1	2	0	2	2	2	0	1.33	0.98	0.25
Urchin (URCHIN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>SUBSTRATE (SUB)</b>																		
Bare Substrate (BARE)	15	7	12	6	16	8	52	44	41	16	50	27	65	37	43	29.27	19.23	4.96
Coral Rubble (CRUB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Crustose Coralline Algae (CCA)	22	19	13	16	2	1	19	18	16	22	10	5	5	3	10	12.07	7.44	1.92
Fine Turf (FINE)	27	35	23	30	14	19	35	19	15	20	15	22	17	30	10	22.07	7.77	2.01

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Substrate Rubble (RUB)	0	0	0	0	0	12	1	0	0	1	0	0	0	1	0	1.00	3.07	0.79
<b>SAND (SAND)</b>																		
Sand (SAND)	0	1	2	22	0	0	3	1	0	0	0	1	0	0	10	2.67	5.94	1.53
<b>TAPE, WAND, SHADOW (TWS)</b>																		
Diver (DIVER)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Monofilament (MONO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
No Data (N/D)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Shadow (SHADOW)	31	28	54	38	13	33	20	48	11	41	38	16	17	39	30	30.47	12.97	3.35
Tag (TAG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Tape (TAPE)	6	0	2	0	9	14	4	10	3	4	0	8	0	0	0	4.00	4.49	1.16
Wand (WAND)	0	0	0	0	0	0	0	0	0	0	0	2	2	2	4	0.67	1.23	0.32
<b>NOTES (occurring in transect)</b>																		
																<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
Bleached Coral (BL)	0	0	0	0	5	0	0	0	1	1	0	0	0	0	0	0.47	1.30	0.34
Concentrated Fish Biting (CONCFB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Isolated Fish Biting (ISOFB)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.07	0.26	0.07
Other Disease (OD)	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.07	0.26	0.07
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.07	0.26	0.07
Paling Coral (PA)	1	0	1	0	2	0	0	0	0	16	11	0	0	0	0	2.07	4.77	1.23
Recent Dead (RC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00



## 1B. RANDOM TRANSECT PERCENT COVER DATA FROM 2010 AT THE EFGB

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW2	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Number of frames	19	19	20	19	19	19	19	19	19	19	19	19	19	19	19	19			
Total points	513	513	540	513	513	513	513	513	513	513	513	513	513	513	513	513			
Total points (minus tape+wand+shadow)	460	447	481	464	482	466	465	473	467	462	431	442	472	469	480	481			
<b>MAJOR CATEGORY (% of transect)</b>																	<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
CORAL (C)	66.09	61.74	57.59	68.75	47.30	48.28	37.20	32.98	74.95	53.90	61.48	75.11	45.76	68.02	26.46	46.15	54.49	14.74	3.69
SPONGE (SP)	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00	0.23	0.68	0.00	0.00	0.21	1.46	0.25	0.51	0.13
ENCRUSTING SPONGE (SPE)	0.00	0.45	1.87	0.00	0.00	0.21	0.22	0.00	0.21	0.00	0.00	0.00	0.00	0.00	1.67	1.25	0.37	0.63	0.16
MACROALGAE (M)	23.91	27.07	28.69	21.55	45.85	40.34	44.09	52.43	18.84	33.77	24.59	16.97	36.23	18.98	54.79	38.88	32.94	12.20	3.05
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.43	0.45	0.42	0.00	0.00	0.64	0.00	0.00	0.21	0.65	0.23	0.23	0.00	0.21	0.00	0.21	0.23	0.23	0.06
SUBSTRATE (SUB)	8.48	10.29	11.43	9.70	6.85	9.01	18.28	14.59	5.57	11.69	13.46	7.01	16.31	12.79	16.88	11.85	11.51	3.74	0.94
SAND (SAND)	1.09	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.21	0.00	0.00	0.00	1.69	0.00	0.00	0.21	0.21	0.48	0.12
TAPE, WAND, SHADOW (TWS)	10.33	12.87	10.93	9.55	6.04	9.16	9.36	7.80	8.97	9.94	15.98	13.84	7.99	8.58	6.43	6.24	9.63	2.75	0.69
Sum (excluding tape+shadow+wand)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			
<b>SUBCATEGORIES (% of transect)</b>																	<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
CORAL (C)																			













TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW2	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Turf Algae Matrix (TURF)	2.17	0.89	3.33	2.37	1.24	0.86	0.43	5.29	0.43	0.43	1.16	0.45	2.75	0.43	0.42	0.42	1.44	1.40	0.35
Unknown MacroAlgae I (MA1)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown MacroAlgae II (MA2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown MacroAlgae III (MA3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>UNKNOWN (U)</b>																			
Unknown Species I (UNK1)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Species II (UNK2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Species III (UNK3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>OTHER (O)</b>																			
Fireworm (FW)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fish (FISH)	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.03	0.07	0.02
Invertebrate (INVERT)	0.43	0.22	0.42	0.00	0.00	0.64	0.00	0.00	0.21	0.65	0.23	0.23	0.00	0.21	0.00	0.00	0.20	0.23	0.06
Urchin (URCHIN)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>SUBSTRATE (SUB)</b>																			
Bare Substrate (BARE)	3.91	5.59	4.16	5.60	2.49	4.29	9.03	8.88	2.78	7.14	6.96	4.07	10.59	11.94	11.46	8.73	6.73	3.08	0.77
Coral Rubble (CRUB)	0.00	0.00	0.00	0.65	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.17	0.04
Crustose Coralline Algae (CCA)	3.48	3.58	6.24	2.37	1.66	1.72	3.44	4.23	1.93	3.03	5.57	2.26	4.66	0.64	1.67	2.49	3.06	1.53	0.38
Fine Turf (FINE)	1.09	0.89	1.04	1.08	2.70	1.93	2.58	1.48	0.86	1.52	0.93	0.68	0.42	0.21	3.75	0.62	1.36	0.95	0.24
Substrate Rubble (RUB)	0.00	0.22	0.00	0.00	0.00	0.86	3.23	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.31	0.82	0.20



TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW2	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Bleached Coral (BL)	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.02
Concentrated Fish Biting (CONCFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.05	0.20	0.05
Damaged (DAM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hyperplasias (HYPERP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Isolated Fish Biting (ISOFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Disease (OD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.06	0.23	0.06
Over Grown with Algae (OV)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.05	0.20	0.05
Paling Coral (PA)	0.33	0.00	1.08	1.25	0.44	0.00	0.00	1.28	0.00	0.40	0.38	0.00	0.00	0.63	0.00	0.00	0.36	0.47	0.12
Recent Dead (RC)	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.14	0.04
<b>MAJOR CATEGORY (occurring in transect)</b>																	<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
CORAL (C)	304	276	277	319	228	225	173	156	350	249	265	332	216	319	127	222	252.38	65.14	16.28
SPONGE (SP)	0	0	0	0	0	7	0	0	0	0	1	3	0	0	1	7	1.19	2.40	0.60
ENCRUSTING SPONGE (SPE)	0	2	9	0	0	1	1	0	1	0	0	0	0	0	8	6	1.75	3.04	0.76
MACROALGAE (M)	110	121	138	100	221	188	205	248	88	156	106	75	171	89	263	187	154.13	59.82	14.95
UNKNOWN (U)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
OTHER (O)	2	2	2	0	0	3	0	0	1	3	1	1	0	1	0	1	1.06	1.06	0.27
SUBSTRATE (SUB)	39	46	55	45	33	42	85	69	26	54	58	31	77	60	81	57	53.63	17.84	4.46
SAND (SAND)	5	0	0	0	0	0	1	0	1	0	0	0	8	0	0	1	1.00	2.25	0.56
TAPE, WAND, SHADOW (TWS)	53	66	59	49	31	47	48	40	46	51	82	71	41	44	33	32	49.56	14.21	3.55
<b>TOTAL TRANSECT</b>	<b>513</b>	<b>513</b>	<b>540</b>	<b>513</b>	<b>513</b>	<b>513</b>	<b>513</b>	<b>513</b>	<b>513</b>	<b>513</b>	<b>513</b>	<b>513</b>	<b>513</b>	<b>513</b>	<b>513</b>	<b>513</b>			

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW2	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR	
<b>POINTS</b>																				
<b>SUBCATEGORIES (occurring in transect)</b>																		<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
<b>CORAL (C)</b>																				
Acropora palmata (ACPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Agaricia agaricites (AGAG)	0	1	0	1	0	1	0	0	0	0	0	0	0	0	3	3	0.56	1.03	0.26	
Agaricia fragilis (AGFR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Agaricia lamarcki (AGLA)	0	0	1	4	0	0	0	0	0	0	1	0	0	0	0	0	0.38	1.02	0.26	
Agaricia sp (AGSP)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.06	0.25	0.06	
Agaricia undata (AGUN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Colpophyllia amaranthus (COAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Colpophyllia natans (CONA)	0	15	6	11	30	3	0	29	33	2	6	27	6	0	2	12	11.38	11.84	2.96	
Colpophyllia sp (COSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Dichocoenia stokesi (DISTO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Diploria strigosa (DIST)	62	27	31	7	71	84	32	2	72	12	15	40	94	99	9	44	43.81	32.46	8.11	
Eusmilia sp (EUSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Leptoseris cucullata (LECU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Madracis asperula (MAAS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW2	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Madracis brueggemanni (MABR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis cf formosa (MAFO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis decactis (MADE)	1	1	0	12	0	0	6	0	0	0	0	2	0	0	1	0	1.44	3.20	0.80
Madracis mirabilis (MAMI)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis myriaster (MAMY)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis pharensis (MAPH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis sp (MASP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madrepora carolina (MADCA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madrepora sp (MADSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Millepora alcornis (MIAL)	0	0	4	6	0	3	2	1	0	0	0	0	1	0	0	1	1.13	1.78	0.45
Montastraea annularis (MOAN)	0	0	0	11	0	6	0	0	0	0	73	0	7	0	0	0	6.06	18.16	4.54
Montastraea annularis species complex (MASC)	23	82	20	27	10	21	10	45	75	89	65	17	24	2	11	5	32.88	28.92	7.23
Montastraea cavernosa (MOCA)	1	9	6	18	12	11	2	8	13	14	13	30	14	116	1	7	17.19	27.31	6.83
Montastraea faveolata (MOFA)	1	23	13	3	29	7	3	0	3	41	0	59	0	4	21	4	13.19	17.26	4.31
Montastraea franki (MOFR)	194	86	162	157	48	67	86	53	147	48	61	135	48	62	48	98	93.75	49.13	12.28
Mussa angulosa (MUAN)	0	0	0	1	0	0	0	0	0	0	4	1	0	1	0	2	0.56	1.09	0.27

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW2	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Oculina sp (OCSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Oxysmilia rotundifolia (OXRO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Oxysmilia sp (OXSP)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.06	0.25	0.06
Paracyanthus pulchellus (PAPU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Porites asterooides (POAS)	11	21	25	56	25	13	19	16	4	42	18	16	22	33	21	39	23.81	13.05	3.26
Porites furcata (POFU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Scolymia cubensis (SCCU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Scolymia sp (SCSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Siderastrea radians (SIRA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Siderastrea siderea (SISI)	0	0	0	1	0	0	4	0	0	0	2	0	0	0	0	0	0.44	1.09	0.27
Siderastrea sp (SISP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Stephanocoenia intersepta (STIN)	0	0	0	0	0	0	2	2	0	0	5	1	0	1	8	1	1.25	2.24	0.56
Stephaocoenia sp (STSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Tubastrea coccinea (TUCO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral I (C1)	11	11	9	4	3	9	6	0	3	1	2	3	0	1	2	6	4.44	3.78	0.94
Unknown Coral II (C2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral III (C3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral IV (C4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW2	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Unknown Coral V (C5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral VI (C6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>SPONGE (SP)</b>																			
Agelas clathroides (AGCL)	0	0	0	0	0	0	0	0	0	0	0	3	0	0	1	3	0.44	1.03	0.26
Aplysina species I (API)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Arolochromia (Pseudoceratina) crassa (ARCR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.25	1.00	0.25
Callyspongia vaginalis (CAVA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla LIGHT brown (CHLB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla brown (CHB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla nucula (CHNU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ectyoplasia ferox (ECFE)	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0.13	0.50	0.13
Geodia gibberosa (GEGI)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ircinia felix (IRFE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ircinia strobilina (IRST)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Mycale laxissima (MYLA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Neofibularia nolitangere (NENO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Niphates erecta (NIER)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00



TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW2	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Placospongia melobesioides (PLME)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge I (SP1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge II (SP2)	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0.31	1.25	0.31
Unknown Sponge III (SP3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge IV (SP4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge V (SP5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VI (SP6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VII (SP7)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VIII (SP8)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Xestospongia muta (XEMU)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.06	0.25	0.06
<b>ENCRUSTING SPONGE (SPE)</b>																			
Encrusting sponge (ENCRUST)	0	2	4	0	0	1	0	0	0	0	0	0	0	0	8	6	1.31	2.50	0.62
Spirastrelle cunctatrix (SPCU)	0	0	3	0	0	0	1	0	1	0	0	0	0	0	0	0	0.31	0.79	0.20
Unknown Encrusting Sponge I (SPE1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Encrusting Sponge II (SPE2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Encrusting Sponge III (SPE3)	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.13	0.50	0.13

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW2	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR	
<b>MACROALGAE (M)</b>																				
Algae (ALGAE)	44	74	45	47	169	64	121	122	55	123	55	28	101	57	148	68	82.56	42.19	10.55	
Dictyota sp. (DICT)	13	15	51	34	37	99	67	88	17	13	17	24	45	29	97	103	46.81	33.37	8.34	
Filamentous Algae (F ALG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.06	0.25	0.06	
Lobophora variegata (LOVA)	43	28	26	8	9	21	15	13	14	18	29	21	12	1	15	14	17.94	10.03	2.51	
Peysonnellia sp. (PEY)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Turf Algae Matrix (TURF)	10	4	16	11	6	4	2	25	2	2	5	2	13	2	2	2	6.75	6.65	1.66	
Unknown MacroAlgae I (MA1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Unknown MacroAlgae II (MA2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Unknown MacroAlgae III (MA3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
<b>UNKNOWN (U)</b>																				
Unknown Species I (UNK1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Unknown Species II (UNK2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Unknown Species III (UNK3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
<b>OTHER (O)</b>																				
Fireworm (FW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Fish (FISH)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.13	0.34	0.09	
Invertebrate (INVERT)	2	1	2	0	0	3	0	0	1	3	1	1	0	1	0	0	0.94	1.06	0.27	
Urchin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW2	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR	
(URCHIN)																				
<b>SUBSTRATE (SUB)</b>																				
Bare Substrate (BARE)	18	25	20	26	12	20	42	42	13	33	30	18	50	56	55	42	31.38	14.73	3.68	
Coral Rubble (CRUB)	0	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0.25	0.77	0.19	
Crustose Coralline Algae (CCA)	16	16	30	11	8	8	16	20	9	14	24	10	22	3	8	12	14.19	7.07	1.77	
Fine Turf (FINE)	5	4	5	5	13	9	12	7	4	7	4	3	2	1	18	3	6.38	4.56	1.14	
Substrate Rubble (RUB)	0	1	0	0	0	4	15	0	0	0	0	0	3	0	0	0	1.44	3.81	0.95	
<b>SAND (SAND)</b>																				
Sand (SAND)	5	0	0	0	0	0	1	0	1	0	0	0	8	0	0	1	1.00	2.25	0.56	
<b>TAPE, WAND, SHADOW (TWS)</b>																				
Diver (DIVER)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Monofilament (MONO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
No Data (N/D)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.06	0.25	0.06	
Shadow (SHADOW)	39	46	51	37	13	32	32	23	30	37	63	56	30	23	23	14	34.31	14.24	3.56	
Tag (TAG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Tape (TAPE)	4	10	1	4	10	8	9	9	7	9	10	5	8	10	6	10	7.50	2.76	0.69	
Wand (WAND)	10	10	7	8	8	7	7	7	9	5	9	10	3	11	4	8	7.69	2.24	0.56	
<b>NOTES (occurring in transect)</b>																	<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>	
Bleached Coral (BL)	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06	0.25	0.06	
Concentrated Fish Biting (CONCFB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.06	0.25	0.06	
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW2	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Isolated Fish Biting (ISOFB)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.06	0.25	0.06
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0.13	0.50	0.13
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0.13	0.34	0.09
Paling Coral (PA)	1	0	3	4	1	0	0	2	0	1	1	0	0	2	0	0	0.94	1.24	0.31
Recent Dead (RC)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.06	0.25	0.06
<b>NOTES (occurring in coral)</b>																			
Bleached Coral (BL)	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06	0.25	0.06
Concentrated Fish Biting (CONCFB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.06	0.25	0.06
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Isolated Fish Biting (ISOFB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0.13	0.50	0.13
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.06	0.25	0.06
Paling Coral (PA)	1	0	3	4	1	0	0	2	0	1	1	0	0	2	0	0	0.94	1.24	0.31
Recent Dead (RC)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.06	0.25	0.06
<b>Shannon-Weaver Index</b>	<b>0.90</b>	<b>0.93</b>	<b>1.02</b>	<b>0.81</b>	<b>0.90</b>	<b>1.04</b>	<b>1.07</b>	<b>0.99</b>	<b>0.73</b>	<b>0.98</b>	<b>0.94</b>	<b>0.75</b>	<b>1.09</b>	<b>0.85</b>	<b>1.06</b>	<b>1.12</b>			
CORAL (C)	0.27	0.30	0.32	0.26	0.35	0.35	0.37	0.37	0.22	0.33	0.30	0.21	0.36	0.26	0.35	0.36			
SPONGE (SP)	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.01	0.06			
ENCRUSTING SPONGE (SPE)	0.00	0.02	0.07	0.00	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.07	0.05			

TRANSECT NAME	EB NE1	EB NE2	EB NE3	EB NE4	EB NW1	EB NW2	EB NW3	EB NW4	EB SE1	EB SE2	EB SE3	EB SE4	EB SW1	EB SW2	EB SW3	EB SW4	MEAN	STD. DEV.	STD. ERROR
MACROALGAE (M)	0.34	0.35	0.36	0.33	0.36	0.37	0.36	0.34	0.31	0.37	0.34	0.30	0.37	0.32	0.33	0.37			
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
OTHER (O)	0.02	0.02	0.02	0.00	0.00	0.03	0.00	0.00	0.01	0.03	0.01	0.01	0.00	0.01	0.00	0.01			
SUBSTRATE (SUB)	0.21	0.23	0.25	0.23	0.18	0.22	0.31	0.28	0.16	0.25	0.27	0.19	0.30	0.26	0.30	0.25			
SAND (SAND)	0.05	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.07	0.00	0.00	0.01			
TAPE, WAND, SHADOW (TWS)																			

# 1C. RANDOM TRANSECT PERCENT COVER DATA FROM 2009 AT THE WFGB

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Number of frames	24	24	24	24	22	24	21	20	45	50	56	59	22	24	24	24			
Total points	504	504	504	504	506	504	504	500	540	600	560	590	506	504	372	504			
Total points (minus tape+wand+shadow)	491	486	472	463	481	487	484	477	481	493	478	561	493	480	346	465			
MAJOR CATEGORY (% of transect)																	MEAN	STD. DEV.	STD. ERROR
CORAL (C)	74.5 4	63.37	51.06	45.36	51.56	46.00	30.58	65.41	78.59	45.44	59.62	72.91	45.03	43.54	60.98	27.53	53.84	14.94	3.73
SPONGE (SP)	0.00	0.00	0.42	0.00	0.42	0.21	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.20	0.05
ENCrustING SPONGE (SPE)	0.00	0.41	0.42	0.43	0.21	0.41	0.21	0.21	0.00	0.41	0.42	0.18	0.20	0.00	0.00	0.86	0.27	0.23	0.06
MACROALGAE (M)	16.5 0	23.66	26.06	34.99	26.82	32.85	47.73	21.38	15.18	39.35	24.48	18.00	32.05	40.83	30.92	49.68	30.03	10.52	2.63
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.41	0.00	0.00	0.00	0.42	0.00	0.21	0.21	0.00	0.00	0.00	0.36	0.20	0.21	0.00	0.00	0.13	0.16	0.04
SUBSTRATE (SUB)	8.55	12.35	21.19	19.01	20.58	20.53	19.83	12.79	4.16	14.81	15.27	4.81	21.70	15.42	8.09	21.72	15.05	6.07	1.52
SAND (SAND)	0.00	0.21	0.85	0.22	0.00	0.00	0.83	0.00	2.08	0.00	0.21	3.74	0.81	0.00	0.00	0.22	0.57	1.01	0.25
TAPE, WAND, SHADOW (TWS)	2.58	3.57	6.35	8.13	4.94	3.37	3.97	4.60	10.93	17.83	14.64	4.92	2.57	4.76	6.99	7.74	6.74	4.36	1.09
Sum (excluding tape+shadow+ wand)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			
SUBCATEGORIES (% of transect)																	MEAN	STD. DEV.	STD. ERROR
CORAL (C)																			
Acropora palmata (ACPA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR	
Madracis pharensis (MAPH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Madracis sp (MASP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Madrepora carolina (MADCA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Madrepora sp (MADSP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Millepora alcicornis (MIAL)	0.20	0.82	0.00	0.65	0.21	0.00	1.65	0.00	0.00	0.00	0.00	1.43	1.62	0.00	0.00	0.00	0.41	0.63	0.16	
Montastraea annularis (MOAN)	1.43	0.00	0.00	0.00	0.00	0.00	0.00	15.09	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00	1.11	3.76	0.94	
Montastraea annularis species complex (MASC)	2.85	4.32	0.00	1.73	1.04	1.64	3.72	0.63	5.41	0.81	20.29	18.18	1.62	0.00	3.76	2.58	4.29	6.05	1.51	
Montastraea cavernosa (MOCA)	9.16	4.94	0.00	0.43	4.16	3.90	0.00	11.74	10.60	0.81	5.65	0.00	0.00	6.25	3.76	3.01	4.03	3.89	0.97	
Montastraea faveolata (MOFA)	0.00	0.62	0.00	0.00	0.00	9.03	0.00	0.00	1.04	1.22	0.63	1.60	1.22	3.33	6.07	0.43	1.57	2.55	0.64	
Montastraea franki (MOFR)	36.0 5	42.39	4.24	15.33	26.61	20.12	9.71	16.14	11.85	20.89	19.87	26.92	27.99	21.25	22.25	2.80	20.28	10.56	2.64	
Mussa angulosa (MUAN)	0.00	0.00	0.00	0.00	1.04	0.00	0.62	0.00	0.42	0.00	0.00	1.60	1.42	0.00	0.00	0.00	0.32	0.55	0.14	
Oculina sp (OCSP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oxysmilia rotundifolia (OXRO)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oxysmilia sp (OXSP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paracyanthus pulchellus (PAPU)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Porites astereoides (POAS)	2.85	0.41	5.72	9.50	1.87	0.82	3.10	5.03	1.46	3.85	2.09	4.10	2.64	8.54	5.78	3.87	3.85	2.57	0.64	
Porites furcata (POFU)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scolymia cubensis (SCCU)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scolymia sp (SCSP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.02	0.07	0.02	







TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Xestospongia muta (XEMU)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>ENCrusting SPONGE (SPE)</b>																			
Encrusting sponge (ENCRUST)	0.00	0.41	0.21	0.43	0.21	0.41	0.21	0.21	0.00	0.41	0.42	0.18	0.20	0.00	0.00	0.86	0.26	0.23	0.06
Spirastrelle cunctatrix (SPCU)	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.01
Unknown Encrusting Sponge I (SPE1)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Encrusting Sponge II (SPE2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Encrusting Sponge III (SPE3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MACROALGAE (M)</b>																			
Algae (ALGAE)	9.78	15.02	13.35	20.30	12.27	20.74	20.66	11.11	12.27	30.83	18.83	15.86	19.68	28.96	27.75	38.49	19.74	8.13	2.03
Dictyota sp. (DICT)	0.00	0.62	1.06	0.65	1.46	0.82	1.86	0.63	0.21	3.85	1.26	0.00	1.01	2.50	0.00	0.65	1.04	1.02	0.25
Filamentous Algae (F ALG)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lobophora variegata (LOVA)	0.41	4.32	1.48	4.75	3.95	2.87	4.13	2.31	2.70	4.06	1.88	0.36	3.65	1.25	1.16	2.37	2.60	1.43	0.36
Peysonnelia sp. (PEY)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Turf Algae Matrix (TURF)	6.31	3.70	10.17	9.29	9.15	8.42	21.07	7.34	0.00	0.61	2.51	1.78	7.71	8.13	2.02	8.17	6.65	5.13	1.28
Unknown MacroAlgae I (MA1)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown MacroAlgae II (MA2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown MacroAlgae III (MA3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>UNKNOWN (U)</b>																			

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Unknown Species I (UNK1)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Species II (UNK2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Species III (UNK3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>OTHER (O)</b>																			
Fireworm (FW)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fish (FISH)	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05
Invertebrate (INVERT)	0.41	0.00	0.00	0.00	0.42	0.00	0.00	0.21	0.00	0.00	0.00	0.36	0.20	0.21	0.00	0.00	0.11	0.16	0.04
Urchin (URCHIN)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>SUBSTRATE (SUB)</b>																			
Bare Substrate (BARE)	3.87	5.35	12.29	4.75	10.40	11.50	8.68	5.87	0.83	6.09	7.11	2.14	14.81	10.42	4.05	9.25	7.34	3.90	0.98
Coral Rubble (CRUB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crustose Coralline Algae (CCA)	1.02	1.44	1.69	6.91	2.08	2.26	0.62	0.84	0.21	0.20	1.67	0.18	1.42	0.00	0.87	1.94	1.46	1.63	0.41
Fine Turf (FINE)	3.67	5.56	7.20	6.91	8.11	6.78	10.54	6.08	2.49	8.32	6.28	2.50	5.48	5.00	3.18	10.11	6.14	2.44	0.61
Substrate Rubble (RUB)	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.62	0.20	0.21	0.00	0.00	0.00	0.00	0.43	0.12	0.20	0.05
<b>SAND (SAND)</b>																			
Sand (SAND)	0.00	0.21	0.85	0.22	0.00	0.00	0.83	0.00	2.08	0.00	0.21	3.74	0.81	0.00	0.00	0.22	0.57	1.01	0.25
<b>TAPE, WAND, SHADOW (TWS)</b>																			
Diver (DIVER)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Monofilament (MONO)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.01	0.05	0.01
No Data (N/D)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shadow (SHADOW)	2.18	2.78	6.15	7.94	4.55	2.38	3.77	4.20	10.74	17.83	14.29	4.92	2.17	3.97	5.91	6.55	6.27	4.49	1.12
Tag (TAG)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tape (TAPE)	0.20	0.60	0.00	0.20	0.20	0.79	0.20	0.00	0.19	0.00	0.36	0.00	0.00	0.40	0.27	0.60	0.25	0.24	0.06



TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
<b>MAJOR CATEGORY (occurring in transect)</b>																	<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
CORAL (C)	366	308	241	210	248	224	148	312	378	224	285	409	222	209	211	128	257.69	79.55	19.89
SPONGE (SP)	0	0	2	0	2	1	3	0	0	0	0	0	0	0	0	0	0.50	0.97	0.24
ENCRUSTING SPONGE (SPE)	0	2	2	2	1	2	1	1	0	2	2	1	1	0	0	4	1.31	1.08	0.27
MACROALGAE (M)	81	115	123	162	129	160	231	102	73	194	117	101	158	196	107	231	142.50	49.87	12.47
UNKNOWN (U)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
OTHER (O)	2	0	0	0	2	0	1	1	0	0	0	2	1	1	0	0	0.63	0.81	0.20
SUBSTRATE (SUB)	42	60	100	88	99	100	96	61	20	73	73	27	107	74	28	101	71.81	29.47	7.37
SAND (SAND)	0	1	4	1	0	0	4	0	10	0	1	21	4	0	0	1	2.94	5.51	1.38
TAPE, WAND, SHADOW (TWS)	13	18	32	41	25	17	20	23	59	107	82	29	13	24	26	39	35.50	26.22	6.56
<b>TOTAL TRANSECT POINTS</b>	<b>504</b>	<b>504</b>	<b>504</b>	<b>504</b>	<b>506</b>	<b>504</b>	<b>504</b>	<b>500</b>	<b>540</b>	<b>600</b>	<b>560</b>	<b>590</b>	<b>506</b>	<b>504</b>	<b>372</b>	<b>504</b>			
<b>SUBCATEGORIES (occurring in transect)</b>																	<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
<b>CORAL (C)</b>																			
Acropora palmata (ACPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia agaricites (AGAG)	0	0	0	1	0	0	4	1	0	0	2	2	0	4	0	1	0.94	1.39	0.35
Agaricia fragilis (AGFR)	0	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0.25	0.45	0.11
Agaricia lamarcki (AGLA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia sp (AGSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia undata (AGUN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Colpophyllia amaranthus (COAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Colpophyllia natans (CONA)	54	7	47	1	73	28	2	45	4	0	0	1	0	4	45	0	19.44	24.94	6.23
Colpophyllia sp (COSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Dichocoenia stokesi (DISTO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Diploria strigosa (DIST)	54	40	35	66	0	14	34	28	225	82	47	95	32	11	15	63	52.56	52.88	13.22
Eusmilina sp (EUSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Leptoseris cucullata (LECU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis asperula (MAAS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis brueggemanni (MABR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis cf formosa (MAFO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis decactis (MADE)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0.19	0.54	0.14
Madracis mirabilis (MAMI)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis myriaster (MAMY)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis pharensis (MAPH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis sp (MASP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madrepora carolina (MADCA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madrepora sp (MADSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Millepora alcicornis (MIAL)	1	4	0	3	1	0	8	0	0	0	0	8	8	0	0	0	2.06	3.17	0.79

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Montastraea annularis (MOAN)	7	0	0	0	0	0	0	72	0	0	0	7	0	0	0	0	5.38	17.93	4.48
Montastraea annularis species complex (MASC)	14	21	0	8	5	8	18	3	26	4	97	102	8	0	13	12	21.19	31.44	7.86
Montastraea cavernosa (MOCA)	45	24	0	2	20	19	0	56	51	4	27	0	0	30	13	14	19.06	18.80	4.70
Montastraea faveolata (MOFA)	0	3	0	0	0	44	0	0	5	6	3	9	6	16	21	2	7.19	11.57	2.89
Montastraea franksi (MOFR)	177	206	20	71	128	98	47	77	57	103	95	151	138	102	77	13	97.50	53.21	13.30
Mussa angulosa (MUAN)	0	0	0	0	5	0	3	0	2	0	0	9	7	0	0	0	1.63	2.90	0.72
Oculina sp (OCSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Oxysmilia rotundifolia (OXRO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Oxysmilia sp (OXSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Paracyanthus pulchellus (PAPU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Porites astereoides (POAS)	14	2	27	44	9	4	15	24	7	19	10	23	13	41	20	18	18.13	11.89	2.97
Porites furcata (POFU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Scolymia cubensis (SCCU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Scolymia sp (SCSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.06	0.25	0.06
Siderastrea radians (SIRA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Siderastrea siderea (SISI)	0	0	101	0	0	4	0	0	0	4	0	0	0	0	0	0	6.81	25.15	6.29
Siderastrea sp (SISP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Stephanocoenia intersepta (STIN)	0	0	9	14	7	5	16	2	1	0	1	0	9	0	4	2	4.38	5.21	1.30
Stephaocoenia sp (STSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00



TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Tubastrea coccinea (TUCO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral I (C1)	0	0	0	0	0	0	1	4	0	2	2	2	0	1	0	3	0.94	1.29	0.32
Unknown Coral II (C2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral III (C3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral IV (C4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral V (C5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral VI (C6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>SPONGE (SP)</b>																			
Agelas clathrodes (AGCL)	0	0	0	0	2	0	3	0	0	0	0	0	0	0	0	0	0.31	0.87	0.22
Aplysina species I (AP1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Arolochoiria (Pseudoceratina) crassa (ARCR)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.06	0.25	0.06
Callyspongia vaginalis (CAVA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla LIGHT brown (CHLB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla brown (CHB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla nucula (CHNU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ectyoplasia ferox (ECFE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Geodia gibberosa (GEGI)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ircinia felix (IRFE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Ircinia strobilina (IRST)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Mycale laxissima (MYLA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Neofibularia nolitangere (NENO)	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.13	0.50	0.13
Niphates erecta (NIER)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Placospongia melobesioides (PLME)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge I (SP1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge II (SP2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge III (SP3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge IV (SP4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge V (SP5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VI (SP6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VII (SP7)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VIII (SP8)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Xestospongia muta (XEMU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>ENCrusting SPONGE (SPE)</b>																			
Encrusting sponge (ENCRUST)	0	2	1	2	1	2	1	1	0	2	2	1	1	0	0	4	1.25	1.06	0.27
Spirastrelle cunctatrix (SPCU)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	0.25	0.06
Unknown Encrusting Sponge I (SPE1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Unknown Encrusting Sponge II (SPE2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Encrusting Sponge III (SPE3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>MACROALGAE (M)</b>																			
Algae (ALGAE)	48	73	63	94	59	101	100	53	59	152	90	89	97	139	96	179	93.25	36.87	9.22
Dictyota sp. (DICT)	0	3	5	3	7	4	9	3	1	19	6	0	5	12	0	3	5.00	4.99	1.25
Filamentous Algae (F ALG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Lobophora variegata (LOVA)	2	21	7	22	19	14	20	11	13	20	9	2	18	6	4	11	12.44	6.99	1.75
Peyssonelia sp. (PEY)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Turf Algae Matrix (TURF)	31	18	48	43	44	41	102	35	0	3	12	10	38	39	7	38	31.81	24.77	6.19
Unknown MacroAlgae I (MA1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown MacroAlgae II (MA2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown MacroAlgae III (MA3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>UNKNOWN (U)</b>																			
Unknown Species I (UNK1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Species II (UNK2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Species III (UNK3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>OTHER (O)</b>																			
Fireworm (FW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Fish (FISH)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.06	0.25	0.06

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Invertebrate (INVERT)	2	0	0	0	2	0	0	1	0	0	0	2	1	1	0	0	0.56	0.81	0.20
Urchin (URCHIN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>SUBSTRATE (SUB)</b>																			
Bare Substrate (BARE)	19	26	58	22	50	56	42	28	4	30	34	12	73	50	14	43	35.06	19.13	4.78
Coral Rubble (CRUB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Crustose Coralline Algae (CCA)	5	7	8	32	10	11	3	4	1	1	8	1	7	0	3	9	6.88	7.56	1.89
Fine Turf (FINE)	18	27	34	32	39	33	51	29	12	41	30	14	27	24	11	47	29.31	11.81	2.95
Substrate Rubble (RUB)	0	0	0	2	0	0	0	0	3	1	1	0	0	0	0	2	0.56	0.96	0.24
<b>SAND (SAND)</b>																			
Sand (SAND)	0	1	4	1	0	0	4	0	10	0	1	21	4	0	0	1	2.94	5.51	1.38
<b>TAPE, WAND, SHADOW (TWS)</b>																			
Diver (DIVER)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Monofilament (MONO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.06	0.25	0.06
No Data (N/D)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Shadow (SHADOW)	11	14	31	40	23	12	19	21	58	107	80	29	11	20	22	33	33.19	26.93	6.73
Tag (TAG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Tape (TAPE)	1	3	0	1	1	4	1	0	1	0	2	0	0	2	1	3	1.25	1.24	0.31
Wand (WAND)	1	1	1	0	1	1	0	2	0	0	0	0	2	2	3	2	1.00	0.97	0.24
<b>NOTES (occurring in transect)</b>																	<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
Bleached Coral (BL)	0	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0.25	0.77	0.19
Concentrated Fish Biting (CONCFB)	0	0	0	0	1	0	0	0	2	1	0	0	0	0	0	0	0.25	0.58	0.14
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.06	0.25	0.06
Isolated Fish Biting (ISOFB)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.19	0.75	0.19
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Over Grown with Algae (OV)	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0.13	0.50	0.13
Paling Coral (PA)	1	2	0	0	0	0	3	9	0	0	0	0	0	0	1	0	1.00	2.31	0.58
Recent Dead (RC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.06	0.25	0.06
<b>NOTES (occurring in coral)</b>																			
Bleached Coral (BL)	0	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0.25	0.77	0.19
Concentrated Fish Biting (CONCFB)	0	0	0	0	1	0	0	0	2	1	0	0	0	0	0	0	0.25	0.58	0.14
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.06	0.25	0.06
Isolated Fish Biting (ISOFB)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.19	0.75	0.19
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Paling Coral (PA)	1	2	0	0	0	0	3	9	0	0	0	0	0	0	1	0	1.00	2.31	0.58
Recent Dead (RC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.06	0.25	0.06
<b>Shannon-Weaver Index</b>	<b>0.75</b>	<b>0.92</b>	<b>1.11</b>	<b>1.08</b>	<b>1.08</b>	<b>1.08</b>	<b>1.13</b>	<b>0.90</b>	<b>0.69</b>	<b>1.03</b>	<b>0.98</b>	<b>0.84</b>	<b>1.12</b>	<b>1.03</b>	<b>0.87</b>	<b>1.09</b>			
CORAL (C)	0.22	0.29	0.34	0.36	0.34	0.36	0.36	0.28	0.19	0.36	0.31	0.23	0.36	0.36	0.30	0.36			
SPONGE (SP)	0.00	0.00	0.02	0.00	0.02	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
ENCRUSTING SPONGE (SPE)	0.00	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.00	0.02	0.02	0.01	0.01	0.00	0.00	0.04			
MACROALGAE (M)	0.30	0.34	0.35	0.37	0.35	0.37	0.35	0.33	0.29	0.37	0.34	0.31	0.36	0.37	0.36	0.35			

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
OTHER (O)	0.02	0.00	0.00	0.00	0.02	0.00	0.01	0.01	0.00	0.00	0.00	0.02	0.01	0.01	0.00	0.00			
SUBSTRATE (SUB)	0.21	0.26	0.33	0.32	0.33	0.33	0.32	0.26	0.13	0.28	0.29	0.15	0.33	0.29	0.20	0.33			
SAND (SAND)	0.00	0.01	0.04	0.01	0.00	0.00	0.04	0.00	0.08	0.00	0.01	0.12	0.04	0.00	0.00	0.01			
TAPE, WAND, SHADOW (TWS)																			

# 1D. RANDOM TRANSECT PERCENT COVER DATA FROM 2010 AT THE WFGB

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Number of frames	19	20	18	19	19	19	19	20	20	19	21	20	19	19	19	19			
Total points	513	540	486	513	513	513	513	540	540	513	567	540	513	513	513	513			
Total points (minus tape+wand+ shadow)	445	454	420	472	447	425	428	483	492	472	536	497	476	482	486	482			
<b>MAJOR CATEGORY (% of transect)</b>																	<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
CORAL (C)	51.24	66.30	78.33	74.58	71.36	35.29	68.93	66.67	73.17	67.58	57.84	63.18	59.45	68.46	84.36	68.46	65.95	11.39	2.85
SPONGE (SP)	0.67	0.00	0.71	0.00	0.00	0.00	0.47	1.45	0.00	0.21	0.00	0.20	0.21	0.00	0.00	0.00	0.25	0.40	0.10
ENCRUSTING SPONGE (SPE)	0.00	1.10	0.00	0.64	0.00	1.18	0.47	0.00	0.00	0.64	0.19	0.20	0.00	0.00	0.00	0.00	0.28	0.41	0.10
MACROALGAE (M)	34.83	21.81	14.52	13.56	18.12	39.06	20.79	21.53	13.82	21.19	27.24	30.78	26.05	20.54	9.05	19.50	22.03	8.02	2.00
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.44	0.00	0.64	0.45	0.00	0.23	0.00	0.81	0.42	0.37	0.20	0.21	0.41	0.21	0.21	0.29	0.24	0.06
SUBSTRATE (SUB)	13.26	10.35	6.43	8.69	9.84	24.24	9.11	9.73	11.79	9.96	13.81	5.03	12.82	8.30	5.14	11.62	10.63	4.49	1.12
SAND (SAND)	0.00	0.00	0.00	1.91	0.22	0.24	0.00	0.62	0.41	0.00	0.56	0.40	1.26	2.28	1.23	0.21	0.58	0.72	0.18
TAPE, WAND, SHADOW (TWS)	13.26	15.93	13.58	7.99	12.87	17.15	16.57	10.56	8.89	7.99	5.47	7.96	7.21	6.04	5.26	6.04	10.17	4.13	1.03
Sum (excluding tape+shadow+ wand)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			
<b>SUBCATEGORIES (% of transect)</b>																	<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
CORAL (C)																			















TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR	
Tape (TAPE)	0.19	1.67	0.82	0.78	1.17	1.75	0.97	0.93	1.48	0.39	1.06	0.74	0.97	1.17	1.56	0.78	1.03	0.43	0.11	
Wand (WAND)	1.95	1.48	1.85	1.17	1.95	1.75	1.17	2.04	1.85	1.75	0.88	2.04	2.14	2.14	1.56	1.56	1.71	0.38	0.09	
<b>NOTES (% of transect)</b>																	<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>	
Bleached Coral (BL)	0.45	0.00	4.52	0.00	0.00	0.00	0.00	0.00	2.03	11.23	9.89	8.05	15.97	7.47	4.53	8.71	4.55	5.09	1.27	
Concentrated Fish Biting (CONCFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.01	0.05	0.01	
Damaged (DAM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hyperplasias (HYPERP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.01	
Isolated Fish Biting (ISOFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.02	
Other Disease (OD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Over Grown with Algae (OV)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.64	0.56	0.00	0.00	0.00	0.00	0.00	0.09	0.21	0.05	
Paling Coral (PA)	0.00	0.00	16.90	0.00	0.00	0.71	0.00	0.00	26.42	25.64	15.86	12.68	7.14	4.98	7.20	3.32	7.55	9.24	2.31	
Recent Dead (RC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.01	0.05	0.01	
<b>NOTES (% of coral)</b>																				
Bleached Coral (BL)	0.88	0.00	5.78	0.00	0.00	0.00	0.00	0.00	2.78	16.61	17.10	12.74	26.86	10.91	5.37	12.73	6.98	8.26	2.06	
Concentrated Fish Biting (CONCFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.02	0.09	0.02	
Damaged (DAM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hyperplasias (HYPERP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.02	
Isolated Fish Biting (ISOFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.02	
Other Disease (OD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Over Grown with Algae (OV)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.65	0.00	0.00	0.00	0.00	0.00	0.08	0.22	0.05	
Paling Coral (PA)	0.00	0.00	21.58	0.00	0.00	2.00	0.00	0.00	36.11	37.62	27.42	20.06	12.01	7.27	8.54	4.85	11.09	13.34	3.33	

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Recent Dead (RC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.02	0.09	0.02
<b>MAJOR CATEGORY (occurring in transect)</b>																	<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
CORAL (C)	228	301	329	352	319	150	295	322	360	319	310	314	283	330	410	330	309.50	57.21	14.30
SPONGE (SP)	3	0	3	0	0	0	2	7	0	1	0	1	1	0	0	0	1.13	1.89	0.47
ENCRUSTING SPONGE (SPE)	0	5	0	3	0	5	2	0	0	3	1	1	0	0	0	0	1.25	1.81	0.45
MACROALGAE (M)	155	99	61	64	81	166	89	104	68	100	146	153	124	99	44	94	102.94	36.75	9.19
UNKNOWN (U)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
OTHER (O)	0	2	0	3	2	0	1	0	4	2	2	1	1	2	1	1	1.38	1.15	0.29
SUBSTRATE (SUB)	59	47	27	41	44	103	39	47	58	47	74	25	61	40	25	56	49.56	19.71	4.93
SAND (SAND)	0	0	0	9	1	1	0	3	2	0	3	2	6	11	6	1	2.81	3.43	0.86
TAPE, WAND, SHADOW (TWS)	68	86	66	41	66	88	85	57	48	41	31	43	37	31	27	31	52.88	21.16	5.29
<b>TOTAL TRANSECT POINTS</b>	<b>513</b>	<b>540</b>	<b>486</b>	<b>513</b>	<b>513</b>	<b>513</b>	<b>513</b>	<b>540</b>	<b>540</b>	<b>513</b>	<b>567</b>	<b>540</b>	<b>513</b>	<b>513</b>	<b>513</b>	<b>513</b>			
<b>SUBCATEGORIES (occurring in transect)</b>																	<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
<b>CORAL (C)</b>																			
Acropora palmata (ACPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia agaricites (AGAG)	1	0	0	0	1	0	1	0	0	0	2	1	0	5	0	1	0.75	1.29	0.32
Agaricia fragilis (AGFR)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.06	0.25	0.06
Agaricia lamarcki (AGLA)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.06	0.25	0.06

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Agaricia sp (AGSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia undata (AGUN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Colpophyllia amaranthus (COAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Colpophyllia natans (CONA)	1	0	11	1	4	0	4	10	10	23	23	20	3	2	0	0	7.00	8.33	2.08
Colpophyllia sp (COSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Dichocoenia stokesi (DISTO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Diploria strigosa (DIST)	46	27	20	57	25	33	40	50	23	28	12	7	0	19	4	5	24.75	17.16	4.29
Eusmilia sp (EUSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Leptoseris cucullata (LECU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis asperula (MAAS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis brueggemanni (MABR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis cf formosa (MAFO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis decactis (MADE)	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0.25	0.58	0.14
Madracis mirabilis (MAMI)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis myriaster (MAMY)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis pharensis (MAPH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis sp (MASP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madrepora carolina (MADCA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00



TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Madrepora sp (MADSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Millepora alcornis (MIAL)	0	1	17	1	0	14	8	0	0	0	0	0	7	3	0	0	3.19	5.46	1.36
Montastraea annularis (MOAN)	2	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	2.13	7.98	2.00
Montastraea annularis species complex (MASC)	8	14	0	31	46	11	9	4	112	77	36	2	16	0	49	25	27.50	31.10	7.78
Montastraea cavernosa (MOCA)	2	26	0	24	18	0	0	36	7	9	37	25	74	37	52	46	24.56	21.62	5.41
Montastraea faveolata (MOFA)	4	3	1	3	1	0	69	0	7	0	1	3	0	0	0	0	5.75	16.98	4.25
Montastraea franksi (MOFR)	137	216	118	194	213	22	116	195	193	168	175	247	141	238	287	252	182.00	65.24	16.31
Mussa angulosa (MUAN)	0	0	0	0	0	1	1	2	0	0	0	0	1	5	0	0	0.63	1.31	0.33
Oculina sp (OCSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Oxysmilia rotundifolia (OXRO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Oxysmilia sp (OXSP)	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0.19	0.40	0.10
Paracyanthus pulchellus (PAPU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Porites astereoides (POAS)	24	9	9	19	6	37	36	21	6	14	15	8	3	12	14	1	14.63	10.61	2.65
Porites furcata (POFU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Scolymia cubensis (SCCU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Scolymia sp (SCSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Siderastrea radians (SIRA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Siderastrea siderea (SISI)	0	1	0	0	0	21	0	0	0	0	1	0	0	0	0	0	1.44	5.23	1.31
Siderastrea sp (SISP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Stephanocoenia intersepta (STIN)	0	3	138	20	5	2	0	0	0	0	5	0	4	8	4	0	11.81	34.03	8.51
Stephaocoenia sp (STSP)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	0.25	0.06
Tubastrea coccinea (TUCO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral I (C1)	3	0	13	1	0	7	9	3	1	0	2	1	2	0	0	0	2.63	3.81	0.95
Unknown Coral II (C2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral III (C3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral IV (C4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral V (C5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral VI (C6)	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0.13	0.34	0.09
<b>SPONGE (SP)</b>																			
Agelas clathrodes (AGCL)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	0.25	0.06
Aplysina species I (AP1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Arolochoia (Pseudoceratina) crassa (ARCR)	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0.31	1.25	0.31
Callyspongia vaginalis (CAVA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla LIGHT brown (CHLB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla brown (CHB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla nucula (CHNU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ectyoplasia ferox (ECFE)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0.13	0.34	0.09

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Geodia gibberosa (GEGI)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ircinia felix (IRFE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ircinia strobilina (IRST)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Mycale laxissima (MYLA)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.06	0.25	0.06
Neofibularia nolitangere (NENO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Niphates erecta (NIER)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Placospongia melobesioides (PLME)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge I (SP1)	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.19	0.54	0.14
Unknown Sponge II (SP2)	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0.13	0.50	0.13
Unknown Sponge III (SP3)	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.06	0.25	0.06
Unknown Sponge IV (SP4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge V (SP5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VI (SP6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VII (SP7)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VIII (SP8)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Xestospongia muta (XEMU)	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.19	0.54	0.14
<b>ENCRUSTING SPONGE (SPE)</b>																			
Encrusting sponge (ENCRUST)	0	3	0	0	0	2	2	0	0	3	1	1	0	0	0	0	0.75	1.13	0.28

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Spirastrelle cunctatrix (SPCU)	0	2	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0.50	1.10	0.27
Unknown Encrusting Sponge I (SPE1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Encrusting Sponge II (SPE2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Encrusting Sponge III (SPE3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>MACROALGAE (M)</b>																			
Algae (ALGAE)	54	47	39	25	7	29	48	27	37	65	84	47	76	37	24	46	43.25	19.93	4.98
Dictyota sp. (DICT)	0	1	0	0	0	0	0	0	20	19	35	27	6	14	2	5	8.06	11.36	2.84
Filamentous Algae (F ALG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Lobophora variegata (LOVA)	101	50	22	39	74	137	41	77	7	15	27	79	29	34	12	28	48.25	36.04	9.01
Peysonnelia sp. (PEY)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Turf Algae Matrix (TURF)	0	1	0	0	0	0	0	0	4	1	0	0	13	14	6	15	3.38	5.55	1.39
Unknown MacroAlgae I (MA1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown MacroAlgae II (MA2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown MacroAlgae III (MA3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>UNKNOWN (U)</b>																			
Unknown Species I (UNK1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Species II (UNK2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
Unknown Species III (UNK3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>OTHER (O)</b>																			
Fireworm (FW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Fish (FISH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Invertebrate (INVERT)	0	2	0	3	2	0	1	0	4	2	2	1	1	2	1	1	1.38	1.15	0.29
Urchin (URCHIN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>SUBSTRATE (SUB)</b>																			
Bare Substrate (BARE)	28	17	9	14	15	62	31	19	30	20	9	10	28	26	10	27	22.19	13.25	3.31
Coral Rubble (CRUB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Crustose Coralline Algae (CCA)	22	10	10	24	14	29	4	23	13	9	38	10	15	5	9	7	15.13	9.51	2.38
Fine Turf (FINE)	9	20	8	2	8	4	4	4	12	18	25	5	15	5	6	19	10.25	7.05	1.76
Substrate Rubble (RUB)	0	0	0	1	7	8	0	1	3	0	2	0	3	4	0	3	2.00	2.56	0.64
<b>SAND (SAND)</b>																			
Sand (SAND)	0	0	0	9	1	1	0	3	2	0	3	2	6	11	6	1	2.81	3.43	0.86
<b>TAPE, WAND, SHADOW (TWS)</b>																			
Diver (DIVER)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Monofilament (MONO)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	0.25	0.06
No Data (N/D)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Shadow (SHADOW)	57	68	53	31	50	70	74	41	30	30	20	28	21	14	11	19	38.56	20.83	5.21
Tag (TAG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Tape (TAPE)	1	9	4	4	6	9	5	5	8	2	6	4	5	6	8	4	5.38	2.31	0.58
Wand (WAND)	10	8	9	6	10	9	6	11	10	9	5	11	11	11	8	8	8.88	1.93	0.48

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
<b>NOTES (occurring in transect)</b>																	<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
Bleached Coral (BL)	2	0	19	0	0	0	0	0	10	53	53	40	76	36	22	42	22.06	24.79	6.20
Concentrated Fish Biting (CONCFB)	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.06	0.25	0.06
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.06	0.25	0.06
Isolated Fish Biting (ISOFB)	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0.13	0.34	0.09
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	1	3	3	0	0	0	0	0	0.44	1.03	0.26
Paling Coral (PA)	0	0	71	0	0	3	0	0	130	121	85	63	34	24	35	16	36.38	44.59	11.15
Recent Dead (RC)	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.06	0.25	0.06
<b>NOTES (occurring in coral)</b>																			
Bleached Coral (BL)	2	0	19	0	0	0	0	0	10	53	53	40	76	36	22	42	22.06	24.79	6.20
Concentrated Fish Biting (CONCFB)	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.06	0.25	0.06
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.06	0.25	0.06
Isolated Fish Biting (ISOFB)	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.06	0.25	0.06
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0.25	0.68	0.17
Paling Coral (PA)	0	0	71	0	0	3	0	0	130	120	85	63	34	24	35	16	36.31	44.47	11.12
Recent Dead (RC)	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.06	0.25	0.06
<b>Shannon-Weaver Index</b>	<b>1.01</b>	<b>0.91</b>	<b>0.68</b>	<b>0.84</b>	<b>0.82</b>	<b>1.14</b>	<b>0.87</b>	<b>0.92</b>	<b>0.82</b>	<b>0.89</b>	<b>1.01</b>	<b>0.86</b>	<b>1.00</b>	<b>0.90</b>	<b>0.58</b>	<b>0.85</b>			

TRANSECT NAME	WB NE1	WB NE2	WB NE3	WB NE4	WB NW1	WB NW2	WB NW3	WB NW4	WB SE1	WB SE2	WB SE3	WB SE4	WB SW1	WB SW2	WB SW3	WB SW4	MEAN	STD. DEV.	STD. ERROR
CORAL (C)	0.34	0.27	0.19	0.22	0.24	0.37	0.26	0.27	0.23	0.26	0.32	0.29	0.31	0.26	0.14	0.26			
SPONGE (SP)	0.03	0.00	0.04	0.00	0.00	0.00	0.03	0.06	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00			
ENCRUSTING SPONGE (SPE)	0.00	0.05	0.00	0.03	0.00	0.05	0.03	0.00	0.00	0.03	0.01	0.01	0.00	0.00	0.00	0.00			
MACROALGAE (M)	0.37	0.33	0.28	0.27	0.31	0.37	0.33	0.33	0.27	0.33	0.35	0.36	0.35	0.33	0.22	0.32			
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
OTHER (O)	0.00	0.02	0.00	0.03	0.02	0.00	0.01	0.00	0.04	0.02	0.02	0.01	0.01	0.02	0.01	0.01			
SUBSTRATE (SUB)	0.27	0.23	0.18	0.21	0.23	0.34	0.22	0.23	0.25	0.23	0.27	0.15	0.26	0.21	0.15	0.25			
SAND (SAND)	0.00	0.00	0.00	0.08	0.01	0.01	0.00	0.03	0.02	0.00	0.03	0.02	0.06	0.09	0.05	0.01			
TAPE, WAND, SHADOW (TWS)																			

## **APPENDIX 2**

### **Schlerochronology Data from 2009 and 2010 at the FGB**



**SCHLEROCHRONOLOGY DATA FROM 2009 AND 2010 AT THE FGB**  
(measurements in mm)

Year	EFGB NE	EFGB SE	EFGB SW	EFGB AVG.	Year	WFGB NE	WFGB SW	WFGB SE	WFGB SW	WFGB AVG.
2009		0.43	0.54	0.49	2009	0.47	0.51	0.55	0.73	0.57
2008	0.6	0.42	0.67	0.56	2008	0.71	0.56	0.39	0.725	0.60
2007	0.51	0.43	0.62	0.52	2007	0.33	0.67	0.61	0.69	0.58
2006	0.6	0.48	0.68	0.59	2006	0.51	0.69	0.72	0.8	0.68
2005	0.76	0.42	0.52	0.57	2005	0.72	0.65	0.55	0.78	0.68
2004	0.69	0.58	0.54	0.60	2004	0.53	0.73	0.73	0.965	0.74
2003	0.63	0.47	0.63	0.58	2003		0.71	0.58	0.7	0.66
2002	0.48	0.49	0.57	0.51	2002		0.71	0.46	0.73	0.63
2001	0.71	0.33		0.52	2001		0.8	0.61	0.75	0.72
2000	0.61	0.49		0.55	2000			0.88	1.01	0.95
1999	0.69	0.45		0.57	1999			0.49	0.82	0.66
1998	0.57			0.57	1998				0.84	0.84
1997	0.73	0.57		0.65	1997					
1996	0.66	0.7		0.68	1996					
1995	0.61	0.525		0.57	1995					
1994	0.66	0.53		0.60	1994					
1993		0.47		0.47	1993					
1992		0.49		0.49	1992					
1991		0.3		0.30	1991					

## **APPENDIX 3**

**Diploria strigosa lateral growth comparable photo  
measurements from 2009 and 2010 at the FGB**

**DIPLORIA STRIGOSA LATERAL GROWTH COMPARABLE PHOTO MEASUREMENTS FROM 2009  
AND 2010 AT THE FGB**

Station			Progression	Regression	No Change	N/A
<b>EFGB 10</b>						
Overall Regression						
1	NA	3.509				3.509
2	P	3.35	3.35			
3	NC	3.403			3.403	
4	R	3.509		3.509		
5	NC	10.809			10.809	
6	R	14.303		14.303		
7	NA	11.166				11.166
8	R	30.945		30.945		
9	NC	4.147			4.147	
10	P	2.127	2.127			
11	NC	8.826			8.826	
12	NA	9.987				9.987
<b>EFGB 12</b>						
Overall Regression						
1	P	37.938	37.938			
2	NC	14.688			14.688	
3	R	41.625		41.625		
4	NA	5.5				5.5
<b>EFGB 13</b>						
Overall Progression						

Station			Progression	Regression	No Change	N/A
1	R	7.505		7.505		
2	P	80.801	80.801			
3	NA	11.632				11.632
<b>EFGB 29</b>						
Overall Progression						
1	R	5.355		5.355		
2	P	65.743	65.743			
3	NA	28.903				28.903
<b>EFGB 34</b>						
Overall Progression						
1	P	25.91	25.91			
2	NC	18.507			18.507	
3	P	2.133	2.133			
4	NC	18.696			18.696	
5	R	26.349		26.349		
6	NC	8.846			8.846	
<b>WFGB 68</b>						
Overall Progression						
1	P	14.411	14.411			
2	P	20.238	20.238			
3	NC	14.787			14.787	
4	P	20.363	20.363			
5	P	14.348	14.348			
6	NA	15.977				15.977
<b>WFGB 69</b>						

Station			Progression	Regression	No Change	N/A
Overall Progression						
1	NA	2.254				2.254
2	P	90.294	90.294			
3	NA	8.458				8.458
<b>WFGB 73</b>						
Overall Progression						
1	R	12.802		12.802		
2	NC	15.927			15.927	
3	P	59.526	59.526			
4	NC	14.444			14.444	
<b>WFGB 94</b>						
Overall Regression						
1	NC	5.772			5.772	
2	R	72.02		72.02		
3	NA	22.146				22.146
<b>WFGB 95</b>						
Overall Progression						
1	NC	12.078			12.078	
2	P	17.209	17.209			
3	R	7.196		7.196		
4	R	21.777		21.777		
5	NC	13.204			13.204	
6	P	28.16	28.16			
<b>WFGB 99</b>						

Station			Progression	Regression	No Change	N/A
Overall Progression						
1	NA	6.955				6.955
2	P	10.902	10.902			
3	P	10.965	10.965			
4	NC	4.95			4.95	
5	P	30.89	30.89			
6	R	14.411		14.411		
7	P	20.739	20.739			
<b>WFGB 106</b>						
Overall Regression						
1	P	5.007	5.007			
2	R	4.06		4.06		
3	P	5.683	5.683			
4	R	17.591		17.591		
5	P	6.157	6.157			
6	R	12.449		12.449		
7	NA	30.973				30.973
8	R	9.878		9.878		
9	NC	8.307			8.307	
<b>WFGB 118</b>						
Overall Regression						
1	NA	4.44				4.44
2	R	28.393		28.393		
3	NA	12.946				12.946
4	R	14.822		14.822		
5	NC	26.579			26.579	
6	R	12.32		12.32		
<b>WFGB 121</b>						

<b>Station</b>			<b>Progression</b>	<b>Regression</b>	<b>No Change</b>	<b>N/A</b>
Overall Regression						
1	NA	25.845				25.845
2	NC	5.507			5.507	
3	R	15.394		15.394		
4	NC	26.721			26.721	
5	R	15.081		15.081		
6	R	6.758		6.758		
7	NC	4.568			4.568	

## **APPENDIX 4**

### **Repetitive Quadrat Percent Cover Data**



### 4A.1. REPETITIVE QUADRAT PERCENT COVER DATA FROM 2009 AT THE EFGB

TRANSECT NAME	RQ 001A	RQ 002A	RQ 003A	RQ 004A	RQ 005A	RQ 007B	RQ 008A	RQ 010	RQ 016A	RQ 020	RQ 021	RQ 023B	RQ 024	RQ 026	RQ 027	RQ 029	RQ 030B	RQ 031	RQ 032	RQ 033A	RQ 038	RQ 040A
Number of frames	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total points	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Total points (minus tape+wand+shadow)	85	70	74	65	92	73	83	71	88	90	91	89	86	74	82	78	83	89	93	84	73	80
MAJOR CATEGORY (% of transect)																						
CORAL (C)	54.12	54.29	36.49	18.46	68.48	65.75	69.88	69.01	89.77	95.56	53.85	80.90	59.30	74.32	75.61	58.97	65.06	88.76	88.17	95.24	61.64	40.00
SPONGE (SP)	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.00	1.16	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.00	2.50
ENCRUSTING SPONGE (SPE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACROALGAE (M)	29.41	32.86	41.89	56.92	19.57	20.55	9.64	12.68	4.55	3.33	30.77	13.48	22.09	18.92	10.98	25.64	28.92	5.62	5.38	2.38	20.55	37.50
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00
SUBSTRATE (SUB)	16.47	12.86	21.62	21.54	11.96	13.70	20.48	18.31	4.55	1.11	15.38	4.49	17.44	6.76	13.41	14.10	6.02	5.62	5.38	2.38	15.07	20.00
SAND (SAND)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.74	0.00
TAPE, WAND, SHADOW (TWS)	15.00	30.00	26.00	35.00	8.00	27.00	17.00	29.00	12.00	10.00	9.00	11.00	14.00	26.00	18.00	22.00	17.00	11.00	7.00	16.00	27.00	20.00
Sum (excluding tape+shadow+wand)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
SUBCATEGORIES (% of transect)																						
CORAL (C)																						



TRANSECT NAME	RQ 001A	RQ 002A	RQ 003A	RQ 004A	RQ 005A	RQ 007B	RQ 008A	RQ 010	RQ 016A	RQ 020	RQ 021	RQ 023B	RQ 024	RQ 026	RQ 027	RQ 029	RQ 030B	RQ 031	RQ 032	RQ 033A	RQ 038	RQ 040A	
Madracis myriaster (MAMY)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Madracis pharensis (MAPH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Madracis sp (MASP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Madrepora carolina (MADCA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Madrepora sp (MADSP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Millepora alcicornis (MIAL)	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.41	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.15	0.00	0.00	0.00
Montastraea annularis (MOAN)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Montastraea annularis species complex (MASC)	4.71	0.00	0.00	1.54	4.35	13.70	13.25	0.00	25.00	0.00	29.67	2.25	2.33	9.46	28.05	3.85	21.69	10.11	7.53	1.19	9.59	1.25	
Montastraea cavernosa (MOCA)	1.18	2.86	16.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.05	3.37	9.68	2.38	0.00	0.00	
Montastraea faveolata (MOFA)	5.88	0.00	12.16	0.00	14.13	0.00	1.20	0.00	0.00	0.00	1.10	26.97	0.00	0.00	0.00	0.00	1.20	0.00	13.98	0.00	0.00	22.50	
Montastraea franki (MOFR)	23.53	37.14	1.35	0.00	23.91	15.07	31.33	36.62	62.50	81.11	17.58	41.57	36.05	18.92	21.95	33.33	2.41	38.20	54.84	69.05	9.59	3.75	
Mussa angulosa (MUAN)	0.00	0.00	0.00	1.54	0.00	0.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oculina sp (OCSP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oxysmilia rotundifolia (OXRO)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oxysmilia sp (OXSP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paracyanthus pulchellus (PAPU)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Porites astereoides (POAS)	5.88	2.86	1.35	10.77	10.87	8.22	3.61	7.04	0.00	7.78	1.10	6.74	10.47	2.70	1.22	2.56	9.64	1.12	0.00	0.00	4.11	7.50	





TRANSECT NAME	RQ 001A	RQ 002A	RQ 003A	RQ 004A	RQ 005A	RQ 007B	RQ 008A	RQ 010	RQ 016A	RQ 020	RQ 021	RQ 023B	RQ 024	RQ 026	RQ 027	RQ 029	RQ 030B	RQ 031	RQ 032	RQ 033A	RQ 038	RQ 040A
Unknown Sponge V (SP5)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Sponge VI (SP6)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Sponge VII (SP7)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Sponge VIII (SP8)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Xestospongia muta (XEMU)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>ENCRUSTING SPONGE (SPE)</b>																						
Encrusting sponge (ENCRUST)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spirastrelle cunctatrix (SPCU)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Encrusting Sponge I (SPE1)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Encrusting Sponge II (SPE2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Encrusting Sponge III (SPE3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MACROALGAE (M)</b>																						
Algae (ALGAE)	24.71	28.57	40.54	40.00	11.96	17.81	9.64	9.86	3.41	3.33	27.47	13.48	17.44	16.22	9.76	16.67	22.89	4.49	4.30	2.38	17.81	32.50
Dictyota sp. (DICT)	4.71	2.86	0.00	16.92	7.61	1.37	0.00	2.82	0.00	0.00	2.20	0.00	1.16	2.70	1.22	8.97	4.82	1.12	0.00	0.00	1.37	2.50
Filamentous Algae (F ALG)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lobophora variegata (LOVA)	0.00	1.43	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	3.49	0.00	0.00	0.00	0.00	0.00	1.08	0.00	1.37	0.00
Peysonnellia sp. (PEY)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Turf Algae Matrix (TURF)	0.00	0.00	1.35	0.00	0.00	0.00	0.00	0.00	1.14	0.00	1.10	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	2.50

TRANSECT NAME	RQ 001A	RQ 002A	RQ 003A	RQ 004A	RQ 005A	RQ 007B	RQ 008A	RQ 010	RQ 016A	RQ 020	RQ 021	RQ 023B	RQ 024	RQ 026	RQ 027	RQ 029	RQ 030B	RQ 031	RQ 032	RQ 033A	RQ 038	RQ 040A	
Unknown MacroAlgae I (MA1)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown MacroAlgae II (MA2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown MacroAlgae III (MA3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>UNKNOWN (U)</b>																							
Unknown Species I (UNK1)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Species II (UNK2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Species III (UNK3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>OTHER (O)</b>																							
Fireworm (FW)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fish (FISH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Invertebrate (INVERT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00
Urchin (URCHIN)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>SUBSTRATE (SUB)</b>																							
Bare Substrate (BARE)	14.12	12.86	14.86	21.54	9.78	10.96	14.46	15.49	2.27	1.11	14.29	4.49	16.28	5.41	12.20	10.26	6.02	5.62	5.38	2.38	13.70	15.00	
Coral Rubble (CRUB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crustose Coralline Algae (CCA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Turf (FINE)	2.35	0.00	6.76	0.00	2.17	2.74	6.02	2.82	2.27	0.00	1.10	0.00	1.16	1.35	1.22	3.85	0.00	0.00	0.00	0.00	0.00	1.37	5.00
Substrate Rubble (RUB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>SAND (SAND)</b>																							
Sand (SAND)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.74	0.00













TRANSECT NAME	RQ 001A	RQ 002A	RQ 003A	RQ 004A	RQ 005A	RQ 007B	RQ 008A	RQ 010	RQ 016A	RQ 020	RQ 021	RQ 023B	RQ 024	RQ 026	RQ 027	RQ 029	RQ 030B	RQ 031	RQ 032	RQ 033A	RQ 038	RQ 040A	
<b>SPONGE (SP)</b>																							
Agelas clathroides (AGCL)	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Aplysina species I (AP1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arolochoxia (Pseudoceratina) crassa (ARCR)	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Callyspongia vaginalis (CAVA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chondrilla LIGHT brown (CHLB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chondrilla brown (CHB)	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Chondrilla nucula (CHNU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ectyoplasia ferox (ECFE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geodia gibberosa (GEGI)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ircinia felix (IRFE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ircinia strobilina (IRST)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mycale laxissima (MYLA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neofibularia nolitangere (NENO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Niphates erecta (NIER)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Placospongia melobesioides (PLME)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unknown Sponge I (SP1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0





TRANSECT NAME	RQ 001A	RQ 002A	RQ 003A	RQ 004A	RQ 005A	RQ 007B	RQ 008A	RQ 010	RQ 016A	RQ 020	RQ 021	RQ 023B	RQ 024	RQ 026	RQ 027	RQ 029	RQ 030B	RQ 031	RQ 032	RQ 033A	RQ 038	RQ 040A
Fine Turf (FINE)	2	0	5	0	2	2	5	2	2	0	1	0	1	1	1	3	0	0	0	0	1	4
Substrate Rubble (RUB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>SAND (SAND)</b>																						
Sand (SAND)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
<b>TAPE, WAND, SHADOW (TWS)</b>																						
Diver (DIVER)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monofilament (MONO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No Data (N/D)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shadow (SHADOW)	12	20	21	30	4	22	14	23	11	7	6	8	10	23	14	18	13	8	7	12	20	18
Tag (TAG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tape (TAPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Wand (WAND)	3	10	5	5	4	5	3	6	1	3	3	3	4	3	4	4	4	3	0	4	6	2
<b>NOTES (occurring in transect)</b>																						
Bleached Coral (BL)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Concentrated Fish Biting (CONCFB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isolated Fish Biting (ISOFB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Paling Coral (PA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	1	0	0	5	0	0





#### 4A.1. REPETITIVE QUADRAT PERCENT COVER DATA FROM 2009 AT THE EFGB, CONT.

TRANSECT NAME	RQ 058B	RQ 067B	RQ 185B	RQ 700	RQ 715A	RQ 717	RQ 725	RQ 739	RQ 751C	RQ 755D	RQ 756A	RQ 757B	RQ 761A	RQ 764C	RQ 765	RQ 766C	MEAN	STD DEV	STD ERROR
Number of frames	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Total points	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			
Total points (minus tape+wand+shadow)	74	74	82	82	87	91	83	86	81	84	87	88	80	54	88	85			
MAJOR CATEGORY (% of transect)																	MEAN	STD DEV	STD ERROR
CORAL (C)	77.03	64.86	62.20	74.39	73.56	89.01	80.72	77.91	81.48	55.95	59.77	81.82	66.25	59.26	73.86	90.59	69.27	16.56	2.69
SPONGE (SP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.69	0.11
ENCRUSTING SPONGE (SPE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACROALGAE (M)	18.92	29.73	26.83	13.41	18.39	7.69	8.43	9.30	12.35	28.57	22.99	7.95	22.50	33.33	14.77	3.53	19.27	12.20	1.98
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.00	0.00	0.00	0.00	1.10	0.00	2.33	0.00	2.38	0.00	0.00	0.00	0.00	1.14	0.00	0.24	0.61	0.10
SUBSTRATE (SUB)	4.05	2.70	10.98	12.20	8.05	2.20	10.84	10.47	6.17	13.10	17.24	10.23	11.25	7.41	10.23	5.88	10.83	5.82	0.94
SAND (SAND)	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.62	0.10
TAPE, WAND, SHADOW (TWS)	26.00	26.00	18.00	18.00	13.00	9.00	17.00	14.00	19.00	16.00	13.00	12.00	20.00	46.00	12.00	15.00	18.45	8.28	1.34
Sum (excluding tape+shadow+wand)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			
SUBCATEGORIES (% of transect)																	MEAN	STD DEV	STD ERROR
CORAL (C)																			
Acropora palmata (ACPA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00











TRANSECT NAME	RQ 058B	RQ 067B	RQ 185B	RQ 700	RQ 715A	RQ 717	RQ 725	RQ 739	RQ 751C	RQ 755D	RQ 756A	RQ 757B	RQ 761A	RQ 764C	RQ 765	RQ 766C	MEAN	STD DEV	STD ERROR
<b>UNKNOWN (U)</b>																			
Unknown Species I (UNK1)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Species II (UNK2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Species III (UNK3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>OTHER (O)</b>																			
Fireworm (FW)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fish (FISH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.39	0.06
Invertebrate (INVERT)	0.00	0.00	0.00	0.00	0.00	1.10	0.00	2.33	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.18	0.50	0.08
Urchin (URCHIN)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>SUBSTRATE (SUB)</b>																			
Bare Substrate (BARE)	4.05	0.00	10.98	12.20	5.75	1.10	10.84	10.47	2.47	3.57	5.75	3.41	6.25	7.41	6.82	2.35	8.47	5.30	0.86
Coral Rubble (CRUB)	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.18	0.03
Crustose Coralline Algae (CCA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Turf (FINE)	0.00	2.70	0.00	0.00	2.30	0.00	0.00	0.00	3.70	9.52	11.49	6.82	5.00	0.00	3.41	3.53	2.33	2.84	0.46
Substrate Rubble (RUB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>SAND (SAND)</b>																			
Sand (SAND)	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.62	0.10
<b>TAPE, WAND, SHADOW (TWS)</b>																			
Diver (DIVER)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Monofilament (MONO)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No Data (N/D)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shadow (SHADOW)	22.00	24.00	16.00	13.00	9.00	6.00	15.00	12.00	18.00	14.00	6.00	8.00	15.00	42.00	10.00	5.00	14.63	7.80	1.26



TRANSECT NAME	RQ 058B	RQ 067B	RQ 185B	RQ 700	RQ 715A	RQ 717	RQ 725	RQ 739	RQ 751C	RQ 755D	RQ 756A	RQ 757B	RQ 761A	RQ 764C	RQ 765	RQ 766C	MEAN	STD DEV	STD ERROR
Tag (TAG)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tape (TAPE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.16	0.03
Wand (WAND)	4.00	2.00	2.00	5.00	4.00	3.00	2.00	2.00	1.00	2.00	7.00	4.00	5.00	4.00	2.00	10.00	3.79	2.09	0.34
<b>NOTES (% of transect)</b>																	MEAN	STD DEV	STD ERROR
Bleached Coral (BL)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.26	0.04
Concentrated Fish Biting (CONCFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.03	0.18	0.03
Damaged (DAM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hyperplasias (HYPERP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Isolated Fish Biting (ISOFB)	0.00	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.22	0.04
Other Disease (OD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Over Grown with Algae (OV)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.18	0.03
Paling Coral (PA)	0.00	0.00	1.22	1.22	0.00	3.30	0.00	15.12	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.96	2.84	0.46
Recent Dead (RC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18	0.03	0.19	0.03
<b>NOTES (% of coral)</b>																			
Bleached Coral (BL)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.34	0.06
Concentrated Fish Biting (CONCFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00	0.04	0.23	0.04
Damaged (DAM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hyperplasias (HYPERP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Isolated Fish Biting (ISOFB)	0.00	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.34	0.05
Other Disease (OD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Over Grown with Algae (OV)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.21	0.03

















TRANSECT NAME	RQ 058B	RQ 067B	RQ 185B	RQ 700	RQ 715A	RQ 717	RQ 725	RQ 739	RQ 751C	RQ 755D	RQ 756A	RQ 757B	RQ 761A	RQ 764C	RQ 765	RQ 766C	MEAN	STD DEV	STD ERROR
Tape (TAPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wand (WAND)	4	2	2	5	4	3	2	2	1	2	7	4	5	4	2	10	4	2	0
<b>NOTES (occurring in transect)</b>																	MEAN	STD DEV	STD ERROR
Bleached Coral (BL)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concentrated Fish Biting (CONCFB)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isolated Fish Biting (ISOFB)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paling Coral (PA)	0	0	1	1	0	3	0	13	0	0	0	1	0	0	0	0	1	2	0
Recent Dead (RC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<b>NOTES (occurring in coral)</b>																			
Bleached Coral (BL)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concentrated Fish Biting (CONCFB)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isolated Fish Biting (ISOFB)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paling Coral (PA)	0	0	1	1	0	3	0	13	0	0	0	1	0	0	0	0	1	2	0

TRANSECT NAME	RQ 058B	RQ 067B	RQ 185B	RQ 700	RQ 715A	RQ 717	RQ 725	RQ 739	RQ 751C	RQ 755D	RQ 756A	RQ 757B	RQ 761A	RQ 764C	RQ 765	RQ 766C	MEAN	STD DEV	STD ERROR
Recent Dead (RC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

#### 4A.2. SHANNON-WEAVER INDEX FOR THE REPETITIVE QUADRAT PERCENT COVER DATA FROM 2009 AT THE EFGB

Shannon-Weaver Index	0.99	0.96	1.06	1.07	0.83	0.87	0.80	0.83	0.43	0.21	0.98	0.63	1.00	0.72	0.72	0.99	0.81	0.43	0.47
CORAL (C)	0.33	0.33	0.37	0.31	0.26	0.28	0.25	0.26	0.10	0.04	0.33	0.17	0.31	0.22	0.21	0.31	0.28	0.11	0.11
SPONGE (SP)	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.06	0.00	0.00	0.00
ENCRUSTING SPONGE (SPE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACROALGAE (M)	0.36	0.37	0.36	0.32	0.32	0.33	0.23	0.26	0.14	0.11	0.36	0.27	0.33	0.32	0.24	0.35	0.36	0.16	0.16
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05
SUBSTRATE (SUB)	0.30	0.26	0.33	0.33	0.25	0.27	0.32	0.31	0.14	0.05	0.29	0.14	0.30	0.18	0.27	0.28	0.17	0.16	0.16
SAND (SAND)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TAPE, WAND, SHADOW (TWS)																			

**4A.2. SHANNON-WEAVER INDEX FOR THE REPETITIVE QUADRAT PERCENT COVER DATA FROM 2009 AT THE EFGB, CONT.**

SHANNON-WEAVER INDEX	0.22	1.01	1.15	0.65	0.84	0.89	0.75	0.74	0.43	0.62	0.74	0.60	1.04	0.95	0.60	0.85	0.87	0.79	0.37
CORAL (C)	0.05	0.30	0.37	0.20	0.28	0.30	0.22	0.23	0.10	0.17	0.19	0.17	0.32	0.31	0.16	0.27	0.31	0.22	0.09
SPONGE (SP)	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENCRUSTING SPONGE (SPE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACROALGAE (M)	0.09	0.33	0.37	0.32	0.36	0.35	0.27	0.31	0.20	0.21	0.22	0.26	0.36	0.34	0.20	0.34	0.37	0.28	0.12
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.05	0.00
SUBSTRATE (SUB)	0.09	0.29	0.32	0.13	0.10	0.24	0.26	0.20	0.08	0.24	0.24	0.17	0.27	0.30	0.23	0.25	0.19	0.23	0.17
SAND (SAND)	0.00	0.10	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TAPE, WAND, SHADOW (TWS)																			

### 4B.1. REPETITIVE QUADRAT PERCENT COVER DATA FROM 2010 AT THE EFGB

TRANSECT NAME	RQ 001a	RQ 002a	RQ 003b	RQ 005b	RQ 010b	RQ 016b	RQ 020b	RQ 021b	RQ 023b	RQ 027b	RQ 029b	RQ 030b	RQ 032b	RQ 058a	RQ 067a	RQ 185a	RQ 708a	RQ 715a	RQ 717a	RQ 724b
Number of frames	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total points	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Total points (minus tape+wand+shadow)	84	67	62	81	87	75	91	52	76	73	71	80	91	81	81	84	91	78	80	69
<b>MAJOR CATEGORY (% of transect)</b>																				
CORAL (C)	50.00	40.30	37.10	81.48	78.16	85.33	94.51	61.54	75.00	90.41	66.20	62.50	87.91	83.95	71.60	75.00	73.63	80.77	76.25	69.57
SPONGE (SP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00
ENCRUSTING SPONGE (SPE)	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00
MACROALGAE (M)	26.19	29.85	40.32	8.64	14.94	9.33	1.10	28.85	11.84	5.48	23.94	16.25	10.99	7.41	11.11	17.86	12.09	11.54	10.00	11.59
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUBSTRATE (SUB)	17.86	29.85	22.58	6.17	5.75	5.33	4.40	9.62	13.16	4.11	9.86	21.25	1.10	8.64	17.28	7.14	14.29	7.69	11.25	18.84
SAND (SAND)	5.95	0.00	0.00	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TAPE, WAND, SHADOW (TWS)	16.00	33.00	38.00	19.00	13.00	25.00	9.00	48.00	24.00	27.00	29.00	20.00	9.00	19.00	19.00	16.00	9.00	22.00	20.00	31.00
Sum (excluding tape+shadow+ wand)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
<b>SUBCATEGORIES (% of transect)</b>																				
<b>CORAL (C)</b>																				
Acropora palmata (ACPA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agaricia agaricites (AGAG)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00





TRANSECT NAME	RQ 001a	RQ 002a	RQ 003b	RQ 005b	RQ 010b	RQ 016b	RQ 020b	RQ 021b	RQ 023b	RQ 027b	RQ 029b	RQ 030b	RQ 032b	RQ 058a	RQ 067a	RQ 185a	RQ 708a	RQ 715a	RQ 717a	RQ 724b
Siderastrea siderea (SISI)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Siderastrea sp (SISP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stephanocoenia intersepta (STIN)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stephaocoenia sp (STSP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tubastrea coccinea (TUCCO)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Coral I (C1)	5.95	13.43	4.84	1.23	1.15	2.67	10.99	9.62	6.58	12.33	11.27	8.75	7.69	16.05	2.47	5.95	10.99	3.85	1.25	7.25
Unknown Coral II (C2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Coral III (C3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Coral IV (C4)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Coral V (C5)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Coral VI (C6)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>SPONGE (SP)</b>																				
Agelas clathroides (AGCL)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aplysina species I (AP1)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arolochoira (Pseudoceratina) crassa (ARCR)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Callyspongia vaginalis (CAVA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chondrilla LIGHT brown (CHLB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chondrilla brown (CHB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00







TRANSECT NAME	RQ 001a	RQ 002a	RQ 003b	RQ 005b	RQ 010b	RQ 016b	RQ 020b	RQ 021b	RQ 023b	RQ 027b	RQ 029b	RQ 030b	RQ 032b	RQ 058a	RQ 067a	RQ 185a	RQ 708a	RQ 715a	RQ 717a	RQ 724b	
<b>UNKNOWN (U)</b>																					
Unknown Species I (UNK1)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Species II (UNK2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unknown Species III (UNK3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>OTHER (O)</b>																					
Fireworm (FW)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fish (FISH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Invertebrate (INVERT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Urchin (URCHIN)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>SUBSTRATE (SUB)</b>																					
Bare Substrate (BARE)	13.10	25.37	12.90	3.70	3.45	5.33	1.10	5.77	2.63	2.74	4.23	8.75	0.00	2.47	8.64	1.19	3.30	3.85	3.75	2.90	
Coral Rubble (CRUB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00	
Crustose Coralline Algae (CCA)	3.57	2.99	3.23	1.23	1.15	0.00	3.30	1.92	9.21	1.37	5.63	3.75	0.00	2.47	4.94	4.76	9.89	3.85	5.00	7.25	
Fine Turf (FINE)	0.00	1.49	6.45	1.23	1.15	0.00	0.00	1.92	1.32	0.00	0.00	8.75	1.10	3.70	3.70	1.19	1.10	0.00	1.25	8.70	
Substrate Rubble (RUB)	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>SAND (SAND)</b>																					
Sand (SAND)	5.95	0.00	0.00	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>TAPE, WAND, SHADOW (TWS)</b>																					
Diver (DIVER)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Monofilament (MONO)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No Data (N/D)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shadow (SHADOW)	13.00	26.00	35.00	17.00	11.00	24.00	8.00	46.00	22.00	27.00	28.00	18.00	7.00	15.00	17.00	12.00	8.00	18.00	16.00	30.00	

TRANSECT NAME	RQ 001a	RQ 002a	RQ 003b	RQ 005b	RQ 010b	RQ 016b	RQ 020b	RQ 021b	RQ 023b	RQ 027b	RQ 029b	RQ 030b	RQ 032b	RQ 058a	RQ 067a	RQ 185a	RQ 708a	RQ 715a	RQ 717a	RQ 724b
Tag (TAG)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tape (TAPE)	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Wand (WAND)	3.00	6.00	3.00	2.00	2.00	1.00	1.00	2.00	2.00	0.00	1.00	2.00	2.00	3.00	2.00	4.00	1.00	4.00	4.00	1.00
<b>NOTES (% of transect)</b>																				
Bleached Coral (BL)	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concentrated Fish Biting (CONCFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Damaged (DAM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hyperplasias (HYPERP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Isolated Fish Biting (ISOFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Disease (OD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Over Grown with Algae (OV)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	0.00	0.00
Paling Coral (PA)	0.00	0.00	3.23	0.00	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00	0.00
Recent Dead (RC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>NOTES (% of coral)</b>																				
Bleached Coral (BL)	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concentrated Fish Biting (CONCFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Damaged (DAM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hyperplasias (HYPERP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Isolated Fish Biting (ISOFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Disease (OD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Over Grown with Algae (OV)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paling Coral (PA)	0.00	0.00	8.70	0.00	0.00	0.00	0.00	3.13	0.00	0.00	0.00	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00	0.00















TRANSECT NAME	RQ 001a	RQ 002a	RQ 003b	RQ 005b	RQ 010b	RQ 016b	RQ 020b	RQ 021b	RQ 023b	RQ 027b	RQ 029b	RQ 030b	RQ 032b	RQ 058a	RQ 067a	RQ 185a	RQ 708a	RQ 715a	RQ 717a	RQ 724b
Unknown Species II (UNK2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unknown Species III (UNK3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>OTHER (O)</b>																				
Fireworm (FW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish (FISH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Invertebrate (INVERT)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urchin (URCHIN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>SUBSTRATE (SUB)</b>																				
Bare Substrate (BARE)	11	17	8	3	3	4	1	3	2	2	3	7	0	2	7	1	3	3	3	2
Coral Rubble (CRUB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Crustose Coralline Algae (CCA)	3	2	2	1	1	0	3	1	7	1	4	3	0	2	4	4	9	3	4	5
Fine Turf (FINE)	0	1	4	1	1	0	0	1	1	0	0	7	1	3	3	1	1	0	1	6
Substrate Rubble (RUB)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>SAND (SAND)</b>																				
Sand (SAND)	5	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TAPE, WAND, SHADOW (TWS)</b>																				
Diver (DIVER)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monofilament (MONO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No Data (N/D)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shadow (SHADOW)	13	26	35	17	11	24	8	46	22	27	28	18	7	15	17	12	8	18	16	30
Tag (TAG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tape (TAPE)	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Wand (WAND)	3	6	3	2	2	1	1	2	2	0	1	2	2	3	2	4	1	4	4	1



## 4B.2. SHANNON-WEAVER INDEX FOR THE REPETITIVE QUADRAT PERCENT COVER DATA FROM 2010 AT THE EFGB

<b>Shannon-Weaver Index</b>	<b>1.17</b>	<b>1.09</b>	<b>1.07</b>	<b>0.67</b>	<b>0.69</b>	<b>0.51</b>	<b>0.24</b>	<b>0.88</b>	<b>0.74</b>	<b>0.38</b>	<b>0.84</b>	<b>0.92</b>	<b>0.41</b>	<b>0.55</b>	<b>0.79</b>	<b>0.71</b>	<b>0.76</b>	<b>0.62</b>	<b>0.79</b>	<b>0.82</b>
CORAL (C)	0.35	0.37	0.37	0.17	0.19	0.14	0.05	0.30	0.22	0.09	0.27	0.29	0.11	0.15	0.24	0.22	0.23	0.17	0.21	0.25
SPONGE (SP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00
ENCRUSTING SPONGE (SPE)	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00
MACROALGAE (M)	0.35	0.36	0.37	0.21	0.28	0.22	0.05	0.36	0.25	0.16	0.34	0.30	0.24	0.19	0.24	0.31	0.26	0.25	0.23	0.25
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUBSTRATE (SUB)	0.31	0.36	0.34	0.17	0.16	0.16	0.14	0.23	0.27	0.13	0.23	0.33	0.05	0.21	0.30	0.19	0.28	0.20	0.25	0.31
SAND (SAND)	0.17	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TAPE, WAND, SHADOW (TWS)																				

<b>Shannon-Weaver Index</b>	<b>0.90</b>	<b>0.67</b>	<b>0.63</b>	<b>0.23</b>	<b>0.45</b>	<b>1.06</b>	<b>0.74</b>	<b>0.84</b>	<b>0.82</b>	<b>0.56</b>	<b>0.90</b>	<b>0.95</b>	<b>0.86</b>	<b>0.19</b>	<b>0.93</b>
CORAL (C)	0.28	0.20	0.16	0.05	0.12	0.37	0.22	0.26	0.24	0.15	0.29	0.30	0.25	0.04	0.30
SPONGE (SP)	0.00	0.00	0.06	0.00	0.00	0.06	0.00	0.00	0.05	0.00	0.00	0.00	0.06	0.00	0.00
ENCRUSTING SPONGE (SPE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACROALGAE (M)	0.30	0.30	0.22	0.13	0.11	0.35	0.25	0.27	0.29	0.21	0.34	0.31	0.31	0.06	0.33
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUBSTRATE (SUB)	0.32	0.17	0.20	0.05	0.22	0.28	0.27	0.31	0.25	0.20	0.26	0.33	0.24	0.10	0.31
SAND (SAND)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TAPE, WAND, SHADOW (TWS)															

### 4C.1. REPETITIVE QUADRAT PERCENT COVER DATA FROM 2009 AT THE WFGB

TRANSECT NAME	RQ 018A	RQ 041B	RQ 042	RQ 045	RQ 046A	RQ 049A	RQ 051	RQ 054B	RQ 061B	RQ 072B	RQ 073A	RQ 091	RQ 093B	RQ 125	RQ 822B	RQ 824B	RQ 839A	RQ 843A	RQ 844C	RQ 857C	RQ 861A
Number of frames	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total points	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Total points (minus tape+wand+shadow)	76	72	84	82	80	76	91	76	79	90	78	92	81	84	78	86	78	82	82	81	80
MAJOR CATEGORY (% of transect)																					
CORAL (C)	46.05	65.28	46.43	68.29	73.75	53.95	81.32	77.63	82.28	65.56	80.77	88.04	82.72	86.90	80.77	79.07	65.38	89.02	80.49	80.25	77.50
SPONGE (SP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENCRUSTING SPONGE (SPE)	0.00	0.00	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACROALGAE (M)	32.89	15.28	22.62	18.29	17.50	31.58	9.89	5.26	0.00	4.44	6.41	4.35	6.17	4.76	10.26	5.81	6.41	4.88	15.85	3.70	1.25
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.00	0.00	0.00	0.00	1.32	1.10	1.32	0.00	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50
SUBSTRATE (SUB)	21.05	19.44	29.76	13.41	8.75	13.16	7.69	15.79	17.72	26.67	12.82	6.52	11.11	8.33	8.97	15.12	21.79	6.10	3.66	16.05	18.75
SAND (SAND)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.22	0.00	1.09	0.00	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00
TAPE, WAND, SHADOW (TWS)	24.00	28.00	16.00	18.00	20.00	24.00	9.00	24.00	21.00	10.00	22.00	8.00	19.00	16.00	22.00	14.00	22.00	18.00	18.00	19.00	20.00
Sum (excluding tape+shadow+ wand)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
SUBCATEGORIES (% of transect)																					
CORAL (C)																					
Acropora palmata (ACPA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agaricia agaricites (AGAG)	1.32	0.00	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00















TRANSECT NAME	RQ 018A	RQ 041B	RQ 042	RQ 045	RQ 046A	RQ 049A	RQ 051	RQ 054B	RQ 061B	RQ 072B	RQ 073A	RQ 091	RQ 093B	RQ 125	RQ 822B	RQ 824B	RQ 839A	RQ 843A	RQ 844C	RQ 857C	RQ 861A	
Tape (TAPE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wand (WAND)	2.00	8.00	1.00	5.00	4.00	2.00	1.00	3.00	3.00	5.00	6.00	2.00	6.00	0.00	2.00	1.00	6.00	1.00	4.00	6.00	2.00	
<b>NOTES (% of transect)</b>																						
Bleached Coral (BL)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concentrated Fish Biting (CONCFB)	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Damaged (DAM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hyperplasias (HYPERP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Isolated Fish Biting (ISOFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Disease (OD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Over Grown with Algae (OV)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paling Coral (PA)	0.00	1.39	0.00	0.00	0.00	3.95	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	2.56	3.66	0.00	0.00	0.00	0.00
Recent Dead (RC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>NOTES (% of coral)</b>																						
Bleached Coral (BL)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concentrated Fish Biting (CONCFB)	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Damaged (DAM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hyperplasias (HYPERP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Isolated Fish Biting (ISOFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Disease (OD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Over Grown with Algae (OV)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paling Coral (PA)	0.00	2.13	0.00	0.00	0.00	7.32	4.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47	3.92	4.11	0.00	0.00	0.00	0.00



















### 4C.2. SHANNON-WEAVER INDEX FOR THE REPETITIVE QUADRAT PERCENT COVER DATA FROM 2009 AT THE WFGB

<b>Shannon-Weaver Index</b>	<b>1.05</b>	<b>0.88</b>	<b>1.11</b>	<b>0.84</b>	<b>0.74</b>	<b>1.02</b>	<b>0.64</b>	<b>0.70</b>	<b>0.47</b>	<b>0.90</b>	<b>0.61</b>	<b>0.48</b>	<b>0.57</b>	<b>0.47</b>	<b>0.62</b>	<b>0.64</b>	<b>0.96</b>	<b>0.42</b>	<b>0.59</b>	<b>0.59</b>	<b>0.66</b>	
CORAL (C)	0.36	0.28	0.36	0.26	0.22	0.33	0.17	0.20	0.16	0.28	0.17	0.11	0.16	0.12	0.17	0.19	0.28	0.10	0.17	0.18	0.20	
SPONGE (SP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
ENCRUSTING SPONGE (SPE)	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MACROALGAE (M)	0.37	0.29	0.34	0.31	0.31	0.36	0.23	0.15	0.00	0.14	0.18	0.14	0.17	0.14	0.23	0.17	0.18	0.15	0.29	0.12	0.05	
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
OTHER (O)	0.00	0.00	0.00	0.00	0.00	0.06	0.05	0.06	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	
SUBSTRATE (SUB)	0.33	0.32	0.36	0.27	0.21	0.27	0.20	0.29	0.31	0.35	0.26	0.18	0.24	0.21	0.22	0.29	0.33	0.17	0.12	0.29	0.31	
SAND (SAND)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.05	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	
TAPE, WAND, SHADOW (TWS)																						
<b>Shannon-Weaver Index</b>	<b>1.03</b>	<b>0.85</b>	<b>0.74</b>	<b>0.33</b>	<b>1.08</b>	<b>0.89</b>	<b>0.85</b>	<b>0.42</b>	<b>1.02</b>	<b>0.59</b>	<b>0.83</b>	<b>0.79</b>	<b>0.41</b>									
CORAL (C)	0.36	0.24	0.22	0.07	0.37	0.28	0.27	0.11	0.32	0.17	0.24	0.26	0.11									
SPONGE (SP)	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
ENCRUSTING SPONGE (SPE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00									
MACROALGAE (M)	0.30	0.23	0.24	0.00	0.35	0.32	0.31	0.09	0.30	0.15	0.30	0.34	0.09									
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
OTHER (O)	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00									
SUBSTRATE (SUB)	0.37	0.29	0.28	0.16	0.37	0.30	0.28	0.22	0.35	0.27	0.23	0.19	0.21									
SAND (SAND)	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
TAPE, WAND, SHADOW (TWS)																						

#### 4D.1. REPETITIVE QUADRAT PERCENT COVER DATA FROM 2010 AT THE WFGB

TRANSECT NAME	RQ 018a	RQ 041a	RQ 042b	RQ 045a	RQ 046a	RQ 049b	RQ 051b	RQ 053b	RQ 054b	RQ 061c	RQ 072b	RQ 073a	RQ 091a	RQ 093d	RQ 125a	RQ 822a	RQ 824a	RQ 839b	RQ 843a	RQ 844a	RQ 847a	RQ 848a
Number of frames	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total points	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Total points (minus tape+wand+shadow)	64	39	55	72	60	43	89	68	66	70	85	70	78	72	76	70	76	82	83	74	73	79
MAJOR CATEGORY (% of transect)																						
CORAL (C)	54.69	61.54	76.36	75.00	76.67	62.79	88.76	67.65	86.36	84.29	38.82	78.57	80.77	79.17	85.53	91.43	80.26	54.88	90.36	78.38	68.49	50.63
SPONGE (SP)	0.00	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENCRUSTING SPONGE (SPE)	0.00	0.00	0.00	0.00	0.00	2.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.88	0.00	0.00	0.00	2.53
MACROALGAE (M)	20.31	2.56	7.27	8.33	10.00	18.60	5.62	14.71	3.03	0.00	0.00	4.29	5.13	5.56	1.32	5.71	1.32	2.44	0.00	10.81	10.96	24.05
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.00	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUBSTRATE (SUB)	25.00	35.90	16.36	16.67	11.67	16.28	4.49	17.65	10.61	15.71	3.53	17.14	12.82	15.28	13.16	2.86	18.42	10.98	9.64	10.81	20.55	22.78
SAND (SAND)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.65	0.00	0.00	0.00	0.00	0.00	0.00	26.83	0.00	0.00	0.00	0.00
TAPE, WAND, SHADOW (TWS)	36.00	61.00	45.00	28.00	40.00	57.00	11.00	32.00	34.00	30.00	15.00	30.00	22.00	28.00	24.00	30.00	24.00	18.00	17.00	26.00	27.00	21.00
Sum (excluding tape+shadow+ wand)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
SUBCATEGORIES (% of transect)																						
CORAL (C)																						





















TRANSECT NAME	RQ 018a	RQ 041a	RQ 042b	RQ 045a	RQ 046a	RQ 049b	RQ 051b	RQ 053b	RQ 054b	RQ 061c	RQ 072b	RQ 073a	RQ 091a	RQ 093d	RQ 125a	RQ 822a	RQ 824a	RQ 839b	RQ 843a	RQ 844a	RQ 847a	RQ 848a
Madracis sp (MASP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Madrepora carolina (MADCA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Madrepora sp (MADSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Millepora alcornis (MIAL)	0	0	0	0	0	0	1	2	3	2	1	0	0	0	0	0	0	0	0	0	0	0
Montastraea annularis (MOAN)	0	7	0	0	0	0	9	0	0	24	0	0	0	0	0	1	1	0	0	0	0	0
Montastraea annularis species complex (MASC)	7	7	1	8	4	4	1	1	1	0	2	2	1	9	0	2	0	8	40	10	0	1
Montastraea cavernosa (MOCA)	10	0	3	0	12	7	0	18	0	3	0	4	3	1	5	0	0	0	0	0	0	0
Montastraea faveolata (MOFA)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
Montastraea franksi (MOFR)	9	0	27	36	15	5	53	19	24	28	22	32	21	35	24	43	45	27	12	36	31	26
Mussa angulosa (MUAN)	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oculina sp (OCSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oxysmilia rotundifolia (OXRO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oxysmilia sp (OXSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paracyanthus pulchellus (PAPU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Porites astereoides (POAS)	5	1	5	0	1	0	3	0	5	1	0	0	0	1	1	3	1	1	1	1	1	2
Porites furcata (POFU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scolymia cubensis (SCCU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scolymia sp (SCSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0











TRANSECT NAME	RQ 018a	RQ 041a	RQ 042b	RQ 045a	RQ 046a	RQ 049b	RQ 051b	RQ 053b	RQ 054b	RQ 061c	RQ 072b	RQ 073a	RQ 091a	RQ 093d	RQ 125a	RQ 822a	RQ 824a	RQ 839b	RQ 843a	RQ 844a	RQ 847a	RQ 848a
Tape (TAPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wand (WAND)	4	1	4	3	2	3	1	3	0	3	1	5	3	5	1	1	3	3	1	3	0	1
<b>NOTES (occurring in transect)</b>																						
Bleached Coral (BL)	6	0	0	0	5	4	1	10	4	5	1	4	1	0	2	0	0	3	0	0	0	0
Concentrated Fish Biting (CONCFB)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isolated Fish Biting (ISOFB)	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paling Coral (PA)	3	0	3	0	12	2	1	8	1	1	0	4	2	1	16	0	3	0	0	0	0	0
Recent Dead (RC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>NOTES (occurring in coral)</b>																						
Bleached Coral (BL)	6	0	0	0	5	4	1	10	4	5	1	4	1	0	2	0	0	3	0	0	0	0
Concentrated Fish Biting (CONCFB)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isolated Fish Biting (ISOFB)	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paling Coral (PA)	3	0	3	0	12	2	1	8	1	1	0	4	2	1	16	0	3	0	0	0	0	0

TRANSECT NAME	RQ 018a	RQ 041a	RQ 042b	RQ 045a	RQ 046a	RQ 049b	RQ 051b	RQ 053b	RQ 054b	RQ 061c	RQ 072b	RQ 073a	RQ 091a	RQ 093d	RQ 125a	RQ 822a	RQ 824a	RQ 839b	RQ 843a	RQ 844a	RQ 847a	RQ 848a
Recent Dead (RC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TRANSECT NAME	RQ 855a	RQ 857a	RQ 861a	RQ 862a	RQ 865a	RQ 866b	RQ 867b	RQ 868a	RQ 869a	RQ 870b	RQ 874b	RQ 875a	RQ 876a	RQ 877c	RQ 878b	RQ 879a	RQ NT3a	MEAN	STD DEV	STD ERROR
Number of frames	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total points	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total points (minus tape+wand+shadow)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
MAJOR CATEGORY (% of transect)																		MEAN	STD DEV	STD ERROR
CORAL (C)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SPONGE (SP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENCrustING SPONGE (SPE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACROALGAE (M)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUBSTRATE (SUB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SAND (SAND)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TAPE, WAND, SHADOW (TWS)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sum (excluding tape+shadow+ wand)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SUBCATEGORIES (% of transect)																		MEAN	STD DEV	STD ERROR
CORAL (C)																				

















TRANSECT NAME	RQ 855a	RQ 857a	RQ 861a	RQ 862a	RQ 865a	RQ 866b	RQ 867b	RQ 868a	RQ 869a	RQ 870b	RQ 874b	RQ 875a	RQ 876a	RQ 877c	RQ 878b	RQ 879a	RQ NT3a	MEAN	STD DEV	STD ERROR		
Other Disease (OD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Over Grown with Algae (OV)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paling Coral (PA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Recent Dead (RC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MAJOR CATEGORY (occurring in transect)</b>																			<b>MEAN</b>	<b>STD DEV</b>	<b>STD ERROR</b>	
CORAL (C)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
SPONGE (SP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
ENCRUSTING SPONGE (SPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
MACROALGAE (M)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
UNKNOWN (U)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
OTHER (O)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
SUBSTRATE (SUB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
SAND (SAND)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
TAPE, WAND, SHADOW (TWS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
<b>TOTAL TRANSECT POINTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>				
<b>SUBCATEGORIES (occurring in transect)</b>																			<b>MEAN</b>	<b>STD DEV</b>	<b>STD ERROR</b>	
<b>CORAL (C)</b>																						
Acropora palmata (ACPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Agaricia agaricites (AGAG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	

TRANSECT NAME	RQ 855a	RQ 857a	RQ 861a	RQ 862a	RQ 865a	RQ 866b	RQ 867b	RQ 868a	RQ 869a	RQ 870b	RQ 874b	RQ 875a	RQ 876a	RQ 877c	RQ 878b	RQ 879a	RQ NT3a	MEAN	STD DEV	STD ERROR
Agaricia fragilis (AGFR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia lamarcki (AGLA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia sp (AGSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia undata (AGUN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Colpophyllia amaranthus (COAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Colpophyllia natans (CONA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Colpophyllia sp (COSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Dichocoenia stokesi (DISTO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Diploria strigosa (DIST)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Eusmilium sp (EUSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Leptoseris cucullata (LECU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis asperula (MAAS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis brueggemanni (MABR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis cf formosa (MAFO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis decactis (MADE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis mirabilis (MAMI)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis myriaster (MAMY)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis pharensis (MAPH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	RQ 855a	RQ 857a	RQ 861a	RQ 862a	RQ 865a	RQ 866b	RQ 867b	RQ 868a	RQ 869a	RQ 870b	RQ 874b	RQ 875a	RQ 876a	RQ 877c	RQ 878b	RQ 879a	RQ NT3a	MEAN	STD DEV	STD ERROR
Madracis sp (MASP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madrepora carolina (MADCA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madrepora sp (MADSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Millepora alaicornis (MIAL)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Montastraea annularis (MOAN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Montastraea annularis species complex (MASC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Montastraea cavernosa (MOCA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Montastraea faveolata (MOFA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Montastraea franki (MOFR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Mussa angulosa (MUAN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Oculina sp (OCSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Oxysmilia rotundifolia (OXRO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Oxysmilia sp (OXSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Paracyanthus pulchellus (PAPU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Porites astereoides (POAS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Porites furcata (POFU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Scolymia cubensis (SCCU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Scolymia sp (SCSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00



TRANSECT NAME	RQ 855a	RQ 857a	RQ 861a	RQ 862a	RQ 865a	RQ 866b	RQ 867b	RQ 868a	RQ 869a	RQ 870b	RQ 874b	RQ 875a	RQ 876a	RQ 877c	RQ 878b	RQ 879a	RQ NT3a	MEAN	STD DEV	STD ERROR
Siderastrea radians (SIRA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Siderastrea siderea (SISI)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Siderastrea sp (SISP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Stephanocoenia intersepta (STIN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Stephaocoenia sp (STSP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Tubastrea coccinea (TUCO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral I (C1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral II (C2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral III (C3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral IV (C4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral V (C5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral VI (C6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>SPONGE (SP)</b>																				
Agelas clathrodes (AGCL)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Aplysina species I (API)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Arolochromia (Pseudoceratina) crassa (ARCR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Callyspongia vaginalis (CAVA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla LIGHT brown (CHLB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	RQ 855a	RQ 857a	RQ 861a	RQ 862a	RQ 865a	RQ 866b	RQ 867b	RQ 868a	RQ 869a	RQ 870b	RQ 874b	RQ 875a	RQ 876a	RQ 877c	RQ 878b	RQ 879a	RQ NT3a	MEAN	STD DEV	STD ERROR
Chondrilla brown (CHB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla nucula (CHNU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ectyoplasia ferox (ECFE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Geodia gibberosa (GEGI)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ircinia felix (IRFE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ircinia strobilina (IRST)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Mycale laxissima (MYLA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Neofibularia nolitangere (NENO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Niphates erecta (NIER)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Placospongia melobesioides (PLME)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge I (SP1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge II (SP2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge III (SP3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge IV (SP4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge V (SP5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VI (SP6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VII (SP7)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VIII (SP8)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00



TRANSECT NAME	RQ 855a	RQ 857a	RQ 861a	RQ 862a	RQ 865a	RQ 866b	RQ 867b	RQ 868a	RQ 869a	RQ 870b	RQ 874b	RQ 875a	RQ 876a	RQ 877c	RQ 878b	RQ 879a	RQ NT3a	MEAN	STD DEV	STD ERROR
Unknown Species I (UNK1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Species II (UNK2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Species III (UNK3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>OTHER (O)</b>																				
Fireworm (FW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Fish (FISH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Invertebrate (INVERT)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Urchin (URCHIN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>SUBSTRATE (SUB)</b>																				
Bare Substrate (BARE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Coral Rubble (CRUB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Crustose Coralline Algae (CCA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Fine Turf (FINE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Substrate Rubble (RUB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>SAND (SAND)</b>																				
Sand (SAND)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>TAPE, WAND, SHADOW (TWS)</b>																				
Diver (DIVER)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Monofilament (MONO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
No Data (N/D)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Shadow (SHADOW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Tag (TAG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	RQ 855a	RQ 857a	RQ 861a	RQ 862a	RQ 865a	RQ 866b	RQ 867b	RQ 868a	RQ 869a	RQ 870b	RQ 874b	RQ 875a	RQ 876a	RQ 877c	RQ 878b	RQ 879a	RQ NT3a	MEAN	STD DEV	STD ERROR
Tape (TAPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Wand (WAND)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>NOTES (occurring in transect)</b>																		<b>MEAN</b>	<b>STD DEV</b>	<b>STD ERROR</b>
Bleached Coral (BL)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Concentrated Fish Biting (CONCFB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Isolated Fish Biting (ISOFB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Paling Coral (PA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Recent Dead (RC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>NOTES (occurring in coral)</b>																				
Bleached Coral (BL)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Concentrated Fish Biting (CONCFB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Isolated Fish Biting (ISOFB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Paling Coral (PA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

<b>TRANSECT NAME</b>	<b>RQ 855a</b>	<b>RQ 857a</b>	<b>RQ 861a</b>	<b>RQ 862a</b>	<b>RQ 865a</b>	<b>RQ 866b</b>	<b>RQ 867b</b>	<b>RQ 868a</b>	<b>RQ 869a</b>	<b>RQ 870b</b>	<b>RQ 874b</b>	<b>RQ 875a</b>	<b>RQ 876a</b>	<b>RQ 877c</b>	<b>RQ 878b</b>	<b>RQ 879a</b>	<b>RQ NT3a</b>	<b>MEAN</b>	<b>STD DEV</b>	<b>STD ERROR</b>
Recent Dead (RC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

#### 4D.2. SHANNON-WEAVER INDEX FOR THE REPETITIVE QUADRAT PERCENT COVER DATA FROM 2010 AT THE WFGB

<b>Shannon-Weaver Index</b>	<b>1.00</b>	<b>0.76</b>	<b>0.69</b>	<b>0.72</b>	<b>0.75</b>	<b>0.99</b>	<b>0.46</b>	<b>0.85</b>	<b>0.47</b>	<b>0.43</b>	<b>0.80</b>	<b>0.63</b>	<b>0.64</b>	<b>0.63</b>	<b>0.46</b>	<b>0.35</b>	<b>0.55</b>	<b>1.16</b>	<b>0.32</b>	<b>0.67</b>
CORAL (C)	0.33	0.30	0.21	0.22	0.20	0.29	0.11	0.26	0.13	0.14	0.37	0.19	0.17	0.18	0.13	0.08	0.18	0.33	0.09	0.19
SPONGE (SP)	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENCRUSTING SPONGE (SPE)	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00
MACROALGAE (M)	0.32	0.09	0.19	0.21	0.23	0.31	0.16	0.28	0.11	0.00	0.00	0.13	0.15	0.16	0.06	0.16	0.06	0.09	0.00	0.24
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUBSTRATE (SUB)	0.35	0.37	0.30	0.30	0.25	0.30	0.14	0.31	0.24	0.29	0.12	0.30	0.26	0.29	0.27	0.10	0.31	0.24	0.23	0.24
SAND (SAND)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00
TAPE, WAND, SHADOW (TWS)																				

<b>Shannon-Weaver Index</b>	<b>0.83</b>	<b>1.12</b>	<b>0.87</b>	<b>0.79</b>	<b>0.56</b>	<b>1.01</b>	<b>0.92</b>	<b>0.62</b>	<b>0.37</b>	<b>0.84</b>	<b>0.70</b>	<b>0.72</b>	<b>0.55</b>	<b>0.99</b>	<b>0.27</b>	<b>0.54</b>	<b>0.78</b>	<b>0.72</b>	<b>0.90</b>
CORAL (C)	0.26	0.34	0.23	0.24	0.17	0.36	0.26	0.17	0.09	0.27	0.20	0.18	0.16	0.27	0.06	0.13	0.21	0.17	0.29
SPONGE (SP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00
ENCRUSTING SPONGE (SPE)	0.00	0.09	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.06	0.06	0.06	0.00
MACROALGAE (M)	0.24	0.34	0.24	0.26	0.00	0.29	0.09	0.19	0.00	0.23	0.15	0.16	0.11	0.25	0.07	0.14	0.26	0.16	0.33
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00
SUBSTRATE (SUB)	0.33	0.34	0.26	0.29	0.30	0.37	0.26	0.25	0.14	0.34	0.29	0.24	0.28	0.30	0.14	0.21	0.24	0.23	0.29
SAND (SAND)	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.14	0.00	0.00	0.13	0.00	0.12	0.00	0.00	0.00	0.00	0.00
TAPE, WAND, SHADOW (TWS)																			

## **APPENDIX 5**

### **Repetitive Quadrat Deep Station Percent Cover Data**



### 5A. REPETITIVE QUADRAT PERCENT COVER DATA FROM 2009 AT THE EFGB DEEP STATIONS

TRANSECT NAME	DS RQ 081A	DS RQ 082A	DS RQ 083A	DS RQ 084A	DS RQ 085A	DS RQ 086A	DS RQ 087B	DS RQ 088A	DS RQ 089B	MEAN	STD. DEV.	STD. ERROR
Number of frames	1	1	1	1	1	1	1	1	1			
Total points	100	100	100	100	100	100	100	100	100			
Total points (minus tape+wand+shadow)	94	88	96	90	78	94	88	86	94			
MAJOR CATEGORY (% of transect)										MEAN	STD. DEV.	STD. ERROR
CORAL (C)	82.98	77.27	80.21	80.00	55.13	92.55	81.82	93.02	92.55	81.73	11.71	3.90
SPONGE (SP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENCRUSTING SPONGE (SPE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACROALGAE (M)	9.57	9.09	7.29	14.44	33.33	5.32	10.23	4.65	1.06	10.56	9.36	3.12
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUBSTRATE (SUB)	7.45	13.64	12.50	5.56	11.54	2.13	7.95	2.33	6.38	7.72	4.17	1.39
SAND (SAND)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TAPE, WAND, SHADOW (TWS)	6.00	12.00	4.00	10.00	22.00	6.00	12.00	14.00	6.00	10.22	5.61	1.87
Sum (excluding tape+shadow+ wand)	100	100	100	100	100	100	100	100	100			

















TRANSECT NAME	DS RQ 081A	DS RQ 082A	DS RQ 083A	DS RQ 084A	DS RQ 085A	DS RQ 086A	DS RQ 087B	DS RQ 088A	DS RQ 089B	MEAN	STD. DEV.	STD. ERROR
Paling Coral (PA)	0.00	0.00	0.00	0.00	3.85	8.51	0.00	1.16	12.77	2.92	4.67	1.56
Recent Dead (RC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>NOTES (% of coral)</b>												
Bleached Coral (BL)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concentrated Fish Biting (CONCFB)	0.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.87	0.29
Damaged (DAM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hyperplasias (HYPERP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Isolated Fish Biting (ISOFB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Disease (OD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Over Grown with Algae (OV)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paling Coral (PA)	0.00	0.00	0.00	0.00	6.98	9.20	0.00	1.25	13.79	3.47	5.21	1.74
Recent Dead (RC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MAJOR CATEGORY (occurring in transect)</b>										<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
CORAL (C)	78	68	77	72	43	87	72	80	87	73.78	13.25	4.42
SPONGE (SP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
ENCRUSTING SPONGE (SPE)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
MACROALGAE (M)	9	8	7	13	26	5	9	4	1	9.11	7.20	2.40
UNKNOWN (U)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
OTHER (O)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	DS RQ 081A	DS RQ 082A	DS RQ 083A	DS RQ 084A	DS RQ 085A	DS RQ 086A	DS RQ 087B	DS RQ 088A	DS RQ 089B	MEAN	STD. DEV.	STD. ERROR
SUBSTRATE (SUB)	7	12	12	5	9	2	7	2	6	6.89	3.69	1.23
SAND (SAND)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
TAPE, WAND, SHADOW (TWS)	6	12	4	10	22	6	12	14	6	10.22	5.61	1.87
<b>TOTAL TRANSECT POINTS</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>			
<b>SUBCATEGORIES (occurring in transect)</b>										<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
<b>CORAL (C)</b>												
Acropora palmata (ACPA)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia agaricites (AGAG)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia fragilis (AGFR)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia lamarcki (AGLA)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia sp (AGSP)	0	0	0	0	0	0	0	5	0	0.56	1.67	0.56
Agaricia undata (AGUN)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Colpophyllia amaranthus (COAM)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Colpophyllia natans (CONA)	12	5	5	4	0	16	0	0	0	4.67	5.81	1.94
Colpophyllia sp (COSP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Dichocoenia stokesi (DISTO)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Diploria strigosa (DIST)	10	0	0	0	0	0	3	1	0	1.56	3.32	1.11

TRANSECT NAME	DS RQ 081A	DS RQ 082A	DS RQ 083A	DS RQ 084A	DS RQ 085A	DS RQ 086A	DS RQ 087B	DS RQ 088A	DS RQ 089B	MEAN	STD. DEV.	STD. ERROR
Eusmilia sp (EUSP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Leptoseris cucullata (LECU)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis asperula (MAAS)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis brueggemanni (MABR)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis cf formosa (MAFO)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis decactis (MADE)	0	1	0	0	0	0	0	0	0	0.11	0.33	0.11
Madracis mirabilis (MAMI)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis myriaster (MAMY)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis pharensis (MAPH)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis sp (MASP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madrepora carolina (MADCA)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madrepora sp (MADSP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Millepora alcicornis (MIAL)	0	0	0	1	0	0	0	9	1	1.22	2.95	0.98
Montastraea annularis (MOAN)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Montastraea annularis species complex (MASC)	2	4	22	9	10	0	4	0	0	5.67	7.18	2.39
Montastraea cavernosa (MOCA)	0	18	14	20	11	24	0	4	35	14.00	11.69	3.90
Montastraea faveolata (MOFA)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	DS RQ 081A	DS RQ 082A	DS RQ 083A	DS RQ 084A	DS RQ 085A	DS RQ 086A	DS RQ 087B	DS RQ 088A	DS RQ 089B	MEAN	STD. DEV.	STD. ERROR
Montastraea franksi (MOFR)	54	36	33	32	9	41	62	60	42	41.00	16.45	5.48
Mussa angulosa (MUAN)	0	0	0	2	0	0	1	0	5	0.89	1.69	0.56
Oculina sp (OCSP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Oxysmilia rotundifolia (OXRO)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Oxysmilia sp (OXSP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Paracyanthus pulchellus (PAPU)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Porites astereoides (POAS)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Porites furcata (POFU)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Scolymia cubensis (SCCU)	0	1	2	0	0	0	0	0	0	0.33	0.71	0.24
Scolymia sp (SCSP)	0	0	0	1	0	0	0	0	0	0.11	0.33	0.11
Siderastrea radians (SIRA)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Siderastrea siderea (SISI)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Siderastrea sp (SISP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Stephanocoenia intersepta (STIN)	0	0	0	2	5	2	0	1	0	1.11	1.69	0.56
Stephaocoenia sp (STSP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Tubastrea coccinea (TUCO)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral I (C1)	0	3	1	1	8	4	2	0	4	2.56	2.55	0.85
Unknown Coral II (C2)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	DS RQ 081A	DS RQ 082A	DS RQ 083A	DS RQ 084A	DS RQ 085A	DS RQ 086A	DS RQ 087B	DS RQ 088A	DS RQ 089B	MEAN	STD. DEV.	STD. ERROR
Unknown Coral III (C3)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral IV (C4)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral V (C5)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral VI (C6)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>SPONGE (SP)</b>												
Agelas clathrodes (AGCL)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Aplysina species I (AP1)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Arolochozia (Pseudoceratina) crassa (ARCR)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Callyspongia vaginalis (CAVA)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla LIGHT brown (CHLB)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla brown (CHB)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla nucula (CHNU)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ectyoplasia ferox (ECFE)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Geodia gibberosa (GEGI)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ircinia felix (IRFE)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ircinia strobilina (IRST)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Mycale laxissima (MYLA)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Neofibularia nolitangere (NENO)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	DS RQ 081A	DS RQ 082A	DS RQ 083A	DS RQ 084A	DS RQ 085A	DS RQ 086A	DS RQ 087B	DS RQ 088A	DS RQ 089B	MEAN	STD. DEV.	STD. ERROR
Niphates erecta (NIER)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Placospongia melobesioides (PLME)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge I (SP1)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge II (SP2)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge III (SP3)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge IV (SP4)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge V (SP5)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VI (SP6)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VII (SP7)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VIII (SP8)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Xestospongia muta (XEMU)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>ENCRUSTING SPONGE (SPE)</b>												
Encrusting sponge (ENCRUST)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Spirastrella cunctatrix (SPCU)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Encrusting Sponge I (SPE1)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Encrusting Sponge II (SPE2)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	DS RQ 081A	DS RQ 082A	DS RQ 083A	DS RQ 084A	DS RQ 085A	DS RQ 086A	DS RQ 087B	DS RQ 088A	DS RQ 089B	MEAN	STD. DEV.	STD. ERROR
Unknown Encrusting Sponge III (SPE3)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>MACROALGAE (M)</b>												
Algae (ALGAE)	3	6	5	10	10	2	3	3	1	4.78	3.31	1.10
Dictyota sp. (DICT)	2	0	0	0	7	0	2	0	0	1.22	2.33	0.78
Filamentous Algae (F ALG)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Lobophora variegata (LOVA)	0	0	0	2	5	3	3	1	0	1.56	1.81	0.60
Peysonnelia sp. (PEY)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Turf Algae Matrix (TURF)	4	2	2	1	4	0	1	0	0	1.56	1.59	0.53
Unknown MacroAlgae I (MA1)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown MacroAlgae II (MA2)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown MacroAlgae III (MA3)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>UNKNOWN (U)</b>												
Unknown Species I (UNK1)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Species II (UNK2)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Species III (UNK3)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>OTHER (O)</b>												
Fireworm (FW)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Fish (FISH)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	DS RQ 081A	DS RQ 082A	DS RQ 083A	DS RQ 084A	DS RQ 085A	DS RQ 086A	DS RQ 087B	DS RQ 088A	DS RQ 089B	MEAN	STD. DEV.	STD. ERROR
Invertebrate (INVERT)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Urchin (URCHIN)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>SUBSTRATE (SUB)</b>												
Bare Substrate (BARE)	2	4	10	3	2	2	2	1	3	3.22	2.68	0.89
Coral Rubble (CRUB)	0	6	0	0	0	0	0	0	0	0.67	2.00	0.67
Crustose Coralline Algae (CCA)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Fine Turf (FINE)	5	2	2	1	7	0	4	1	3	2.78	2.22	0.74
Substrate Rubble (RUB)	0	0	0	1	0	0	1	0	0	0.22	0.44	0.15
<b>SAND (SAND)</b>												
Sand (SAND)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>TAPE, WAND, SHADOW (TWS)</b>												
Diver (DIVER)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Monofilament (MONO)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
No Data (N/D)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Shadow (SHADOW)	3	8	0	6	19	3	8	11	3	6.78	5.70	1.90
Tag (TAG)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Tape (TAPE)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Wand (WAND)	3	4	4	4	3	3	4	3	3	3.44	0.53	0.18
<b>NOTES (occurring in transect)</b>										<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
Bleached Coral (BL)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00



TRANSECT NAME	DS RQ 081A	DS RQ 082A	DS RQ 083A	DS RQ 084A	DS RQ 085A	DS RQ 086A	DS RQ 087B	DS RQ 088A	DS RQ 089B	MEAN	STD. DEV.	STD. ERROR
Concentrated Fish Biting (CONCFB)	0	0	2	0	0	0	0	0	0	0.22	0.67	0.22
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Isolated Fish Biting (ISOFB)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Paling Coral (PA)	0	0	0	0	3	8	0	1	12	2.67	4.39	1.46
Recent Dead (RC)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>NOTES (occurring in coral)</b>												
Bleached Coral (BL)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Concentrated Fish Biting (CONCFB)	0	0	2	0	0	0	0	0	0	0.22	0.67	0.22
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Isolated Fish Biting (ISOFB)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Paling Coral (PA)	0	0	0	0	3	8	0	1	12	2.67	4.39	1.46
Recent Dead (RC)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

<b>Shannon-Weaver Index</b>	<b>0.57</b>	<b>0.69</b>	<b>0.63</b>	<b>0.62</b>	<b>0.94</b>	<b>0.31</b>	<b>0.60</b>	<b>0.30</b>	<b>0.30</b>
CORAL (C)	0.15	0.20	0.18	0.18	0.33	0.07	0.16	0.07	0.07
SPONGE (SP)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENCRUSTING SPONGE (SPE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACROALGAE (M)	0.22	0.22	0.19	0.28	0.37	0.16	0.23	0.14	0.05
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUBSTRATE (SUB)	0.19	0.27	0.26	0.16	0.25	0.08	0.20	0.09	0.18
SAND (SAND)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TAPE, WAND, SHADOW (TWS)									

### 5B. REPETITIVE QUADRAT PERCENT COVER DATA FROM 2010 AT THE EFGB DEEP STATIONS

TRANSECT NAME	DS RQ 081a	DS RQ 082c	DS RQ 083b	DS RQ 084a	DS RQ 085b	DS RQ 086a	DS RQ 087b	DS RQ 088b	DS RQ 089b	MEAN	STD. DEV.	STD. ERROR
Number of frames	1	1	1	1	1	1	1	1	1			
Total points	100	100	100	100	100	100	100	100	100			
Total points (minus tape+wand+shadow)	89	86	87	88	67	80	72	68	82			
MAJOR CATEGORY (% of transect)										MEAN	STD. DEV.	STD. ERROR
CORAL (C)	91.01	69.77	81.61	79.55	71.64	92.50	73.61	89.71	90.24	82.18	9.03	3.01
SPONGE (SP)	0.00	0.00	0.00	2.27	0.00	0.00	0.00	0.00	0.00	0.25	0.76	0.25
ENCRUSTING SPONGE (SPE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACROALGAE (M)	4.49	13.95	14.94	10.23	19.40	6.25	16.67	2.94	3.66	10.28	6.19	2.06
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47	0.00	0.16	0.49	0.16
SUBSTRATE (SUB)	4.49	16.28	3.45	7.95	8.96	0.00	9.72	5.88	6.10	6.98	4.59	1.53
SAND (SAND)	0.00	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.14	0.42	0.14
TAPE, WAND, SHADOW (TWS)	11.00	14.00	13.00	12.00	33.00	20.00	28.00	32.00	18.00	20.11	8.74	2.91
Sum (excluding tape+shadow+ wand)	100	100	100	100	100	100	100	100	100			
SUBCATEGORIES (% of transect)										MEAN	STD. DEV.	STD. ERROR
CORAL (C)												
Acropora palmata (ACPA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



















TRANSECT NAME	DS RQ 081a	DS RQ 082c	DS RQ 083b	DS RQ 084a	DS RQ 085b	DS RQ 086a	DS RQ 087b	DS RQ 088b	DS RQ 089b	MEAN	STD. DEV.	STD. ERROR
Acropora palmata (ACPA)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia agaricites (AGAG)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia fragilis (AGFR)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia lamarcki (AGLA)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Agaricia sp (AGSP)	0	0	0	0	0	0	0	1	0	0.11	0.33	0.11
Agaricia undata (AGUN)	0	0	0	0	0	0	0	1	0	0.11	0.33	0.11
Colpophyllia amaranthus (COAM)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Colpophyllia natans (CONA)	9	2	7	0	0	25	0	0	0	4.78	8.32	2.77
Colpophyllia sp (COSP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Dichocoenia stokesi (DISTO)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Diploria strigosa (DIST)	13	1	0	0	0	0	0	0	0	1.56	4.30	1.43
Eusmilia sp (EUSP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Leptoseris cucullata (LECU)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis asperula (MAAS)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis brueggemanni (MABR)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis cf formosa (MAFO)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis decactis (MADE)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis mirabilis (MAMI)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	DS RQ 081a	DS RQ 082c	DS RQ 083b	DS RQ 084a	DS RQ 085b	DS RQ 086a	DS RQ 087b	DS RQ 088b	DS RQ 089b	MEAN	STD. DEV.	STD. ERROR
Madracis myriaster (MAMY)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis pharensis (MAPH)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madracis sp (MASP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madrepora carolina (MADCA)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Madrepora sp (MADSP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Millepora alcicornis (MIAL)	0	0	0	1	0	0	1	4	1	0.78	1.30	0.43
Montastraea annularis (MOAN)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Montastraea annularis species complex (MASC)	17	10	15	36	13	2	9	31	9	15.78	10.99	3.66
Montastraea cavernosa (MOCA)	0	17	13	0	13	10	0	0	24	8.56	8.97	2.99
Montastraea faveolata (MOFA)	0	0	11	0	0	0	0	0	0	1.22	3.67	1.22
Montastraea franksi (MOFR)	36	12	18	24	0	20	31	15	29	20.56	10.98	3.66
Mussa angulosa (MUAN)	0	2	1	0	0	0	0	0	3	0.67	1.12	0.37
Oculina sp (OCSP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Oxysmilia rotundifolia (OXRO)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Oxysmilia sp (OXSP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Paracyanthus pulchellus (PAPU)	0	0	0	1	0	0	0	0	0	0.11	0.33	0.11
Porites astereoides (POAS)	0	0	0	0	0	0	0	1	0	0.11	0.33	0.11
Porites furcata (POFU)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	DS RQ 081a	DS RQ 082c	DS RQ 083b	DS RQ 084a	DS RQ 085b	DS RQ 086a	DS RQ 087b	DS RQ 088b	DS RQ 089b	MEAN	STD. DEV.	STD. ERROR
Scolymia cubensis (SCCU)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Scolymia sp (SCSP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Siderastrea radians (SIRA)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Siderastrea siderea (SISI)	1	0	0	0	0	0	0	0	0	0.11	0.33	0.11
Siderastrea sp (SISP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Stephanocoenia intersepta (STIN)	0	0	0	0	6	0	0	1	0	0.78	1.99	0.66
Stephaocoenia sp (STSP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Tubastrea coccinea (TUCO)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral I (C1)	5	16	6	8	16	17	12	7	8	10.56	4.75	1.58
Unknown Coral II (C2)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral III (C3)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral IV (C4)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral V (C5)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Coral VI (C6)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>SPONGE (SP)</b>												
Agelas clathrodes (AGCL)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Aplysina species I (AP1)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Arolochoira (Pseudoceratina) crassa (ARCR)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	DS RQ 081a	DS RQ 082c	DS RQ 083b	DS RQ 084a	DS RQ 085b	DS RQ 086a	DS RQ 087b	DS RQ 088b	DS RQ 089b	MEAN	STD. DEV.	STD. ERROR
Callyspongia vaginalis (CAVA)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla LIGHT brown (CHLB)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla brown (CHB)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Chondrilla nucula (CHNU)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ectyoplasia ferox (ECFE)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Geodia gibberosa (GEGI)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ircinia felix (IRFE)	0	0	0	1	0	0	0	0	0	0.11	0.33	0.11
Ircinia strobilina (IRST)	0	0	0	1	0	0	0	0	0	0.11	0.33	0.11
Mycale laxissima (MYLA)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Neofibularia nolitangere (NENO)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Niphates erecta (NIER)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Placospongia melobesioides (PLME)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge I (SP1)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge II (SP2)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge III (SP3)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge IV (SP4)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge V (SP5)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VI (SP6)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	DS RQ 081a	DS RQ 082c	DS RQ 083b	DS RQ 084a	DS RQ 085b	DS RQ 086a	DS RQ 087b	DS RQ 088b	DS RQ 089b	MEAN	STD. DEV.	STD. ERROR
Unknown Sponge VII (SP7)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Sponge VIII (SP8)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Xestospongia muta (XEMU)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>ENCRUSTING SPONGE (SPE)</b>												
Encrusting sponge (ENCRUST)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Spirastrelle cunctatrix (SPCU)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Encrusting Sponge I (SPE1)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Encrusting Sponge II (SPE2)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Unknown Encrusting Sponge III (SPE3)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>MACROALGAE (M)</b>												
Algae (ALGAE)	3	9	7	6	11	5	9	2	2	6.00	3.28	1.09
Dictyota sp. (DICT)	1	0	0	0	0	0	0	0	1	0.22	0.44	0.15
Filamentous Algae (F ALG)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Lobophora variegata (LOVA)	0	2	5	3	2	0	3	0	0	1.67	1.80	0.60
Peysonnellia sp. (PEY)	0	0	1	0	0	0	0	0	0	0.11	0.33	0.11
Turf Algae Matrix (TURF)	0	1	0	0	0	0	0	0	0	0.11	0.33	0.11
Unknown MacroAlgae I (MA1)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00





TRANSECT NAME	DS RQ 081a	DS RQ 082c	DS RQ 083b	DS RQ 084a	DS RQ 085b	DS RQ 086a	DS RQ 087b	DS RQ 088b	DS RQ 089b	MEAN	STD. DEV.	STD. ERROR
Diver (DIVER)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Monofilament (MONO)	0	0	0	0	0	0	0	1	0	0.11	0.33	0.11
No Data (N/D)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Shadow (SHADOW)	8	14	9	12	32	18	27	29	18	18.56	8.86	2.95
Tag (TAG)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Tape (TAPE)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Wand (WAND)	3	0	4	0	1	2	1	2	0	1.44	1.42	0.47
<b>NOTES (occurring in transect)</b>										<b>MEAN</b>	<b>STD. DEV.</b>	<b>STD. ERROR</b>
Bleached Coral (BL)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Concentrated Fish Biting (CONCFB)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Isolated Fish Biting (ISOFB)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Paling Coral (PA)	0	0	0	0	2	7	0	0	8	1.89	3.26	1.09
Recent Dead (RC)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
<b>NOTES (occurring in coral)</b>												
Bleached Coral (BL)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Concentrated Fish Biting (CONCFB)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Damaged (DAM)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Hyperplasias (HYPERP)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

TRANSECT NAME	DS RQ 081a	DS RQ 082c	DS RQ 083b	DS RQ 084a	DS RQ 085b	DS RQ 086a	DS RQ 087b	DS RQ 088b	DS RQ 089b	MEAN	STD. DEV.	STD. ERROR
Isolated Fish Biting (ISOFB)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Other Disease (OD)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Over Grown with Algae (OV)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Paling Coral (PA)	0	0	0	0	2	7	0	0	8	1.89	3.26	1.09
Recent Dead (RC)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

Shannon-Weaver Index	0.36	0.82	0.57	0.70	0.77	0.30	0.75	0.43	0.38
CORAL (C)	0.09	0.25	0.17	0.18	0.24	0.07	0.23	0.10	0.09
SPONGE (SP)	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00
ENCRUSTING SPONGE (SPE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACROALGAE (M)	0.14	0.27	0.28	0.23	0.32	0.17	0.30	0.10	0.12
UNKNOWN (U)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER (O)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00
SUBSTRATE (SUB)	0.14	0.30	0.12	0.20	0.22	0.00	0.23	0.17	0.17
SAND (SAND)	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
TAPE, WAND, SHADOW (TWS)									

**APPENDIX 6**  
**Water Quality Data**

## 6A. SEA-BIRD AND HOBO DAILY MEAN WATER TEMPERATURE DATA FROM 2009 AND 2010 AT THE FGB (°C)

EFGB Sea-bird			EFGB Hobo	
Date	2009	2010	2009	2010
1-Jan	NA	21.82695	NA	22.17498843
2-Jan	NA	21.66844	NA	22.07774306
3-Jan	NA	21.787596	NA	21.89100694
4-Jan	NA	21.65776	NA	22.05811343
5-Jan	NA	21.521371	NA	21.99373843
6-Jan	NA	21.142848	NA	21.95631944
7-Jan	NA	20.811515	NA	21.54038194
8-Jan	NA	20.463594	NA	21.35827546
9-Jan	NA	20.364185	NA	20.96226852
10-Jan	NA	20.426183	NA	20.59186343
11-Jan	NA	20.146204	NA	20.5308912
12-Jan	NA	19.993342	NA	20.69321759
13-Jan	NA	20.253858	NA	20.37296296
14-Jan	NA	20.310831	NA	20.64392361
15-Jan	NA	21.09944	NA	20.29951389
16-Jan	NA	20.952708	NA	21.0258912
17-Jan	NA	21.182271	NA	20.93586806
18-Jan	NA	21.06379	NA	21.27327546
19-Jan	NA	20.671633	NA	21.20027778
20-Jan	NA	21.062871	NA	20.81516204
21-Jan	NA	21.162194	NA	21.05659722
22-Jan	20.753592	21.4976	21.07944444	21.16579861
23-Jan	20.93	21.306865	20.86984954	21.44539352
24-Jan	20.71	20.899935	20.64833333	21.28451389

WFGB Sea-bird			WFGB Hobo	
Date	2009	2010	WFGB 2009	WFGB 2010
1-Jan	NA	21.217488	NA	NA
2-Jan	NA	21.227558	NA	NA
3-Jan	NA	21.00647	NA	NA
4-Jan	NA	20.941319	NA	NA
5-Jan	NA	20.715382	NA	NA
6-Jan	NA	20.657176	NA	NA
7-Jan	NA	20.870359	NA	NA
8-Jan	NA	20.726887	NA	NA
9-Jan	NA	20.833183	NA	NA
10-Jan	NA	20.521528	NA	NA
11-Jan	NA	19.860255	NA	NA
12-Jan	NA	20.360208	NA	NA
13-Jan	NA	20.107616	NA	NA
14-Jan	NA	20.515995	NA	NA
15-Jan	NA	21.247593	NA	NA
16-Jan	NA	21.321863	NA	NA
17-Jan	NA	20.940903	NA	NA
18-Jan	NA	20.241505	NA	NA
19-Jan	NA	20.68772	NA	NA
20-Jan	NA	21.219479	NA	NA
21-Jan	NA	21.013426	NA	NA
22-Jan	20.75184	20.681725	20.79277778	20.68172454
23-Jan	21.104884	20.653947	21.39	20.65394676
24-Jan	21.252234	20.728322	20.865	20.72832176

EFGB Sea-bird			EFGB Hobo	
Date	2009	2010	2009	2010
25-Jan	20.96	20.745096	20.89871528	20.92600694
26-Jan	21.21	20.619063	21.14604167	20.77815972
27-Jan	21.08	20.489806	21.02033565	20.64883102
28-Jan	21.31	20.536552	21.2393287	20.46163194
29-Jan	21.36	20.223871	21.30263889	20.53967593
30-Jan	21.02	20.101969	20.96126157	20.22707176
31-Jan	20.76	20.020702	20.69505787	20.14900463
1-Feb	20.92	19.924881	20.86047454	20.07824074
2-Feb	21.02	19.902185	20.96076389	19.98758102
3-Feb	20.97	19.888129	20.90917824	19.90297454
4-Feb	20.76	19.826825	20.70456019	19.81711806
5-Feb	20.41	19.797698	20.3503588	19.76054398
6-Feb	20.71	19.748031	20.64950231	19.73538194
7-Feb	20.77	19.710219	20.70407407	19.6934838
8-Feb	20.88	19.563523	20.81481481	19.64577546
9-Feb	20.66	19.432535	20.59385417	19.56296296
10-Feb	20.88	19.406102	20.8162037	19.50599537
11-Feb	20.85	19.28536	20.79048611	19.41150463
12-Feb	20.82	19.24855	20.76299769	19.21391204
13-Feb	21.13	19.286956	21.06846065	19.18427083
14-Feb	21.20	19.149263	21.14408565	19.22892361
15-Feb	21.21	18.996315	21.15241898	19.16945602
16-Feb	21.16	18.901933	21.10116898	19.0087963
17-Feb	21.11	18.845427	21.04663194	18.90071759
18-Feb	20.93	18.835254	20.8753588	18.82134259
19-Feb	20.91	18.815231	20.84756944	18.81023148
20-Feb	20.94	19.025123	20.87739583	18.74777778
21-Feb	20.82	19.020573	20.75556713	18.9468287

WFGB Sea-bird			WFGB Hobo	
Date	2009	2010	WFGB 2009	WFGB 2010
25-Jan	20.995463	20.513368	20.91277778	20.51336806
26-Jan	21.297234	20.350706	21.34222222	20.35070602
27-Jan	21.591146	20.27684	21.81888889	20.27684028
28-Jan	21.716424	20.311088	21.74777778	20.31108796
29-Jan	21.639306	20.522465	21.50888889	20.52246528
30-Jan	21.468067	20.109606	21.43722222	20.10960648
31-Jan	21.516944	20.11691	21.43722222	20.11690972
1-Feb	21.552083	20.004514	21.55722222	20.00451389
2-Feb	21.492257	19.923576	21.34222222	19.92357639
3-Feb	21.199259	19.842303	21.12722222	19.84230324
4-Feb	21.01235	19.902442	20.88888889	19.90244213
5-Feb	20.713576	19.781042	20.74611111	19.78104167
6-Feb	20.633484	19.797558	20.38777778	19.79755787
7-Feb	20.141875	19.7414	20.34111111	19.74140046
8-Feb	20.610822	19.695023	21.07888889	19.69502315
9-Feb	20.856088	19.673958	20.91277778	19.67395833
10-Feb	21.091366	19.521215	21.24611111	19.52121528
11-Feb	21.253206	19.454086	21.12722222	19.45408565
12-Feb	21.070567	19.339329	20.91277778	19.3393287
13-Feb	20.910116	19.243206	20.69777778	19.24320602
14-Feb	20.729919	19.325891	20.67388889	19.3258912
15-Feb	20.799329	19.24272	20.81722222	19.24271991
16-Feb	20.876204	19.091505	20.69777778	19.09150463
17-Feb	20.849572	19.60059	20.81722222	19.60059028
18-Feb	20.875683	19.573125	20.69777778	19.573125
19-Feb	21.062222	19.452836	21.46111111	19.45283565
20-Feb	21.607465	19.377049	21.67611111	19.37704861
21-Feb	21.248981	19.309109	20.72222222	19.3091088

EFGB Sea-bird			EFGB Hobo	
Date	2009	2010	2009	2010
22-Feb	20.66	19.344794	20.60415509	18.94645833
23-Feb	20.58	19.1885	20.51722222	19.20002315
24-Feb	20.53	19.129185	20.47034722	19.12569444
25-Feb	20.48	19.15916	20.42655093	19.0683912
26-Feb	20.52	19.077748	20.45834491	19.08829861
27-Feb	20.77	19.12104	20.70798611	19.00361111
28-Feb	20.75	19.121885	20.68314815	19.04758102
29-Feb	20.51		20.68314815	19.04758102
1-Mar	20.62	18.731263	20.45196759	19.04799769
2-Mar	20.71	18.764283	20.56346065	18.68731481
3-Mar	20.69	18.594652	20.65887731	18.69431713
4-Mar	20.55	18.539606	20.63827546	18.56596065
5-Mar	20.56	18.620569	20.49462963	18.48674769
6-Mar	20.71	18.557677	20.49744213	18.55202546
7-Mar	20.99	18.682802	20.64354167	18.50298611
8-Mar	21.00	19.013169	20.93082176	18.57983796
9-Mar	21.21	19.044058	20.93732639	18.92126157
10-Mar	21.23	19.110819	21.14356481	18.96032407
11-Mar	21.32	19.3832	21.16861111	19.03013889
12-Mar	21.43	18.795773	21.26378472	19.29825231
13-Mar	21.56	18.754471	21.36179398	18.74435185
14-Mar	21.38	18.887783	21.49694444	18.69957176
15-Mar	21.15	19.072438	21.31454861	18.80082176
16-Mar	20.86	18.955563	21.08890046	18.98913194
17-Mar	21.01	19.049575	20.80640046	18.90325231
18-Mar	21.16	19.049127	20.95185185	18.97111111
19-Mar	21.14	19.190375	21.10233796	18.97563657
20-Mar	20.86	18.525473	21.08746528	19.1177662

WFGB Sea-bird			WFGB Hobo	
Date	2009	2010	WFGB 2009	WFGB 2010
22-Feb	20.684618	19.241713	20.72222222	19.24171296
23-Feb	20.915509	19.360104	20.77	19.36010417
24-Feb	20.932905	19.291806	20.72222222	19.29180556
25-Feb	20.283218	19.270486	19.865	19.27048611
26-Feb	20.247917	19.149086	20.48388889	19.14908565
27-Feb	21.283426	18.766076	21.74777778	18.76607639
28-Feb	21.722894	18.315382	21.175	18.31538194
X	X	X	X	X
1-Mar	20.937454	18.214769	20.79277778	18.21476852
2-Mar	20.669606	18.290035	20.365	18.29003472
3-Mar	20.554155	18.304861	20.46	18.30486111
4-Mar	20.32559	18.47125	20.41222222	18.47125
5-Mar	20.565995	18.706134	20.46	18.70613426
6-Mar	20.79934	18.7189	20.96	18.71890046
7-Mar	20.984549	18.664942	21.00777778	18.66494213
8-Mar	21.068924	18.609444	21.19888889	18.60944444
9-Mar	21.093796	18.643218	21.12722222	18.64321759
10-Mar	21.192222	18.803819	21.22277778	18.80381944
11-Mar	21.280613	18.863796	21.27	18.8637963
12-Mar	21.400046	19.024711	21.55722222	19.02471065
13-Mar	22.236076	18.927118	21.41277778	18.92711806
14-Mar	20.565023	18.478715	20.15	18.47871528
15-Mar	19.780394	18.23463	19.555	18.23462963
16-Mar	19.761169	18.539734	19.98388889	18.5397338
17-Mar	20.712928	18.049329	21.05611111	18.0493287
18-Mar	21.003403	19.113391	21.19888889	19.1133912
19-Mar	21.520903	18.956343	22.13	18.95634259
20-Mar	21.967222	18.753299	21.67611111	18.75329861

EFGB Sea-bird			EFGB Hobo	
Date	2009	2010	2009	2010
21-Mar	21.06	17.813798	20.80444444	18.47136574
22-Mar	21.13	17.671688	21.00685185	17.75144676
23-Mar	21.26	17.401169	21.07452546	17.6122338
24-Mar	21.42	17.647356	21.19427083	17.32847222
25-Mar	21.20	18.044529	21.35719907	17.55384259
26-Mar	21.08	17.581408	21.13609954	17.99920139
27-Mar	21.12	17.726154	21.01542824	17.49887731
28-Mar	21.60	17.674392	21.05413194	17.67265046
29-Mar	22.56	18.046804	21.5440625	17.57966435
30-Mar	22.88	17.7706	22.50530093	17.98834491
31-Mar	22.85	17.720548	22.8237963	17.69349537
1-Apr	22.98	17.88721	22.79222222	17.64939815
2-Apr	22.86	17.978963	22.93299769	17.80612269
3-Apr	22.82	17.950446	22.80479167	17.89927083
4-Apr	22.72	18.709615	22.76355324	17.87246528
5-Apr	22.64	19.027696	22.67136574	18.60318287
6-Apr	22.33	18.935031	22.58746528	18.93658565
7-Apr	22.21	18.973033	22.275625	18.85685185
8-Apr	22.40	19.03875	22.15751157	18.88782407
9-Apr	22.63	19.013879	22.33832176	18.9633912
10-Apr	22.74	19.102556	22.57607639	18.94344907
11-Apr	22.86	19.290029	22.68133102	19.03077546
12-Apr	22.86	19.197456	22.79850694	19.22045139
13-Apr	22.86	19.290448	22.8100463	19.121875
14-Apr	22.80	19.311319	22.81467593	19.22142361
15-Apr	22.65	19.173098	22.75652778	19.24913194
16-Apr	22.42	19.233292	22.58601852	19.09061343
17-Apr	22.54	19.40941	22.35861111	19.1624537

WFGB Sea-bird			WFGB Hobo	
Date	2009	2010	WFGB 2009	WFGB 2010
21-Mar	21.671528	17.630058	21.60388889	17.63005787
22-Mar	21.604757	17.767431	21.60388889	17.76743056
23-Mar	21.596377	17.868449	21.50888889	17.86844907
24-Mar	21.352813	18.838368	21.19888889	18.83836806
25-Mar	21.385208	18.851238	21.24611111	18.85123843
26-Mar	20.888831	17.959572	21.53277778	17.95957176
27-Mar	21.051701	17.648958	21.24611111	17.64895833
28-Mar	21.14809	18.138808	20.72222222	18.13880787
29-Mar	20.858438	18.563044	20.41222222	18.56304398
30-Mar	20.7764	18.801829	21.55722222	18.8018287
31-Mar	22.158715	17.736088	22.77611111	17.73608796
1-Apr	22.985463	18.818206	23.04	18.81820602
2-Apr	22.963993	18.514468	22.94388889	18.51446759
3-Apr	22.87603	18.566991	22.82388889	18.56699074
4-Apr	22.814549	18.556007	22.82388889	18.55600694
5-Apr	22.841979	18.906806	22.77611111	18.90680556
6-Apr	22.670382	19.02515	22.53722222	19.02515046
7-Apr	22.568981	18.994572	22.63277778	18.99457176
8-Apr	22.669028	18.87706	22.8	18.87706019
9-Apr	22.767836	18.391076	22.75277778	18.39107639
10-Apr	22.738183	18.38706	22.68111111	18.38706019
11-Apr	22.630428	19.106944	22.65722222	19.10694444
12-Apr	22.638808	18.674931	22.585	18.67493056
13-Apr	22.616863	19.263009	22.56111111	19.26300926
14-Apr	22.620417	19.319479	22.60888889	19.31947917
15-Apr	22.669873	19.269965	22.72888889	19.26996528
16-Apr	22.620046	19.691262	22.465	19.69126157
17-Apr	22.398611	19.487581	22.44111111	19.48758102



EFGB Sea-bird			EFGB Hobo	
Date	2009	2010	2009	2010
18-Apr	22.58	20.083867	22.47846065	19.29634259
19-Apr	22.49	20.916921	22.52046296	19.89436343
20-Apr	22.41	21.414754	22.43194444	20.71216435
21-Apr	22.72	21.339996	22.37231481	21.27168981
22-Apr	23.10	21.401844	22.65928241	21.22604167
23-Apr	23.51	21.287313	23.04353009	21.31306713
24-Apr	23.54	21.745521	23.45658565	21.18496528
25-Apr	23.41	21.795821	23.48450231	21.65206019
26-Apr	23.36	22.296129	23.34359954	21.66481481
27-Apr	23.39	22.810025	23.29957176	22.13969907
28-Apr	23.61	23.038765	23.33297454	22.68453704
29-Apr	23.68	22.869094	23.55638889	22.94402778
30-Apr	23.74	22.214744	23.62356481	22.80891204
1-May	23.78	21.399429	23.68351852	22.14021991
2-May	23.84	22.339152	23.72605324	21.32739583
3-May	23.79	22.726531	23.78458333	22.23711806
4-May	23.84	23.058427	23.73108796	22.63225694
5-May	23.74	23.084888	23.78311343	22.9515625
6-May	23.81	22.968467	23.6775463	22.98553241
7-May	23.90	22.615554	23.75325231	22.8803125
8-May	23.98	22.883313	23.83876157	22.53326389
9-May	23.80	22.794481	23.91825231	22.79381944
10-May	23.81	22.778002	23.73508102	22.71877315
11-May	24.08	22.002488	23.74866898	22.7262037
12-May	24.10	22.9364	24.0203125	21.92540509
13-May	24.09	23.735846	24.03601852	22.80689815
14-May	24.13	23.188831	24.02896991	23.63170139

WFGB Sea-bird			WFGB Hobo	
Date	2009	2010	WFGB 2009	WFGB 2010
18-Apr	22.274653	19.303669	22.03388889	19.30366898
19-Apr	22.201134	19.105405	22.8	19.10540509
20-Apr	23.25522	19.407604	23.32777778	19.40760417
21-Apr	23.542801	19.390324	23.56888889	19.39032407
22-Apr	23.614826	19.470648	23.76111111	19.47064815
23-Apr	23.722523	19.676887	23.83277778	19.67688657
24-Apr	23.657512	19.979387	23.76111111	19.97938657
25-Apr	23.767083	19.8389	23.785	19.83890046
26-Apr	23.784942	19.716968	23.61722222	19.71696759
27-Apr	23.425336	19.666424	23.32777778	19.66642361
28-Apr	23.433947	20.870949	23.35222222	20.87094907
29-Apr	23.389051	20.255625	23.35222222	20.255625
30-Apr	23.352164	19.697083	23.35222222	19.69708333
1-May	23.348993	19.616308	23.44777778	19.61630787
2-May	23.417523	19.635683	23.545	19.63568287
3-May	23.502685	19.555926	23.52111111	19.55592593
4-May	23.554271	19.782477	23.61722222	19.78247685
5-May	23.644317	20.195567	23.71277778	20.19556713
6-May	23.530613	21.405498	23.42388889	21.40549769
7-May	23.55309	20.481933	23.71277778	20.48193287
8-May	23.681458	20.402245	23.93	20.40224537
9-May	23.71353	20.283519	23.80888889	20.28351852
10-May	23.679965	21.617963	23.59277778	21.61796296
11-May	23.825405	21.965174	23.97777778	21.96517361
12-May	24.007234	22.71566	23.85722222	22.71565972
13-May	24.055023	23.337211	24.02611111	23.33721065
14-May	24.160046	23.265752	24.02611111	23.26575231

EFGB Sea-bird			EFGB Hobo	
Date	2009	2010	2009	2010
15-May	24.18	22.292698	24.06945602	23.11855324
16-May	24.39	22.175152	24.12471065	22.12405093
17-May	25.09	22.607406	24.30400463	22.06224537
18-May	25.43	23.192773	25.0053588	22.45666667
19-May	25.30	24.1323	25.36731481	22.97233796
20-May	25.25	23.307167	25.23980324	23.87425926
21-May	25.24	23.734513	25.19383102	23.20703704
22-May	25.18	24.372356	25.18219907	23.61975694
23-May	25.38	24.502963	25.11197917	24.22832176
24-May	25.09	24.851629	25.31756944	24.30633102
25-May	25.16	25.069844	25.01592593	24.65392361
26-May	25.68	24.357756	25.09384259	24.89274306
27-May	26.27	24.507302	25.60953704	24.26322917
28-May	25.34	23.90714	26.21399306	24.39890046
29-May	24.95	23.373042	25.27957176	23.864375
30-May	25.21	24.604896	24.87614583	23.37130787
31-May	26.03	25.125269	25.1546412	24.31666667
1-Jun	25.83	24.198467	25.97909722	24.8683912
2-Jun	26.01	23.717233	25.76555556	24.11883102
3-Jun	25.45	23.887563	25.94203704	23.69209491
4-Jun	25.99	24.375171	25.4066088	23.73556713
5-Jun	26.84	24.272321	25.92731481	24.23240741
6-Jun	26.99	24.667821	26.78516204	24.12688657
7-Jun	25.77	24.991679	26.93163194	24.52701389

WFGB Sea-bird			WFGB Hobo	
Date	2009	2010	WFGB 2009	WFGB 2010
15-May	24.472164	23.736042	24.99222222	23.73604167
16-May	24.881088	23.78809	24.77388889	23.78809028
17-May	24.789317	23.749213	24.82277778	23.74921296
18-May	25.078819	23.653576	25.065	23.65357639
19-May	25.190081	23.436111	24.94388889	23.43611111
20-May	25.106296	23.639016	24.84722222	23.6390162
21-May	25.100463	24.587257	26.01222222	24.58725694
22-May	25.968669	24.798669	26.03611111	24.79866898
23-May	25.961655	24.939063	25.98722222	24.9390625
24-May	25.84287	25.284745	25.91388889	25.28474537
25-May	25.906863	25.246065	26.01222222	25.24606481
26-May	26.188067	24.826157	26.475	24.82615741
27-May	25.214479	24.195822	23.23222222	24.19582176
28-May	23.733519	23.615486	23.11222222	23.61548611
29-May	23.552269	23.354502	23.88111111	23.35450231
30-May	23.846262	22.765023	24.77388889	22.76502315
31-May	26.009028	22.366319	26.03611111	22.36631944
1-Jun	26.196817	22.531516	26.35277778	22.5315162
2-Jun	26.299213	22.439664	26.085	22.43966435
3-Jun	24.877593	22.48272	24.65277778	22.48271991
4-Jun	25.916551	22.276794	26.64611111	22.27679398
5-Jun	26.854537	21.849352	26.965	21.84935185
6-Jun	26.956979	21.80412	26.54888889	21.80412037
7-Jun	26.260243	23.50441	26.59777778	23.50440972

EFGB Sea-bird			EFGB Hobo	
Date	2009	2010	2009	2010
8-Jun	26.27	24.464619	25.71069444	24.89289352
9-Jun	26.24	25.202083	26.20543981	24.3403125
10-Jun	26.45	25.625198	26.17575231	24.91385417
11-Jun	26.10	27.29705	26.39497685	25.44001157
12-Jun	26.23	27.515979	25.94952546	27.20342593
13-Jun	26.01	27.790623	26.13729167	27.40329861
14-Jun	26.21	27.214648	25.94609954	27.68428241
15-Jun	25.92	27.543292	26.13635417	27.13402778
16-Jun	25.96	27.575056	25.8556713	27.41815972
17-Jun	27.20	27.526681	25.88418981	27.48413194
18-Jun	27.61	27.331425	27.11982639	27.4316088
19-Jun	27.65	27.322842	27.54586806	27.25930556
20-Jun	27.48	26.940713	27.58265046	27.24555556
21-Jun	27.55	26.842573	27.41760417	26.87534722
22-Jun	27.81	26.70484	27.48689815	26.76637731
23-Jun	28.12	27.917538	27.74091435	26.5559375
24-Jun	27.93	28.183408	28.03454861	27.85452546
25-Jun	27.63	27.994658	27.85503472	28.09831019
26-Jun	27.17	27.610242	27.55767361	27.94300926
27-Jun	26.53	27.664002	27.09305556	27.52221065
28-Jun	27.25	28.733277	26.44502315	27.59695602
29-Jun	27.75	28.343408	27.16134259	27.62348958
30-Jun	28.25	26.479333	27.67946759	27.53951968
1-Jul	27.18	26.950583	28.18678241	27.55274306
2-Jul	28.02	27.613219	27.07930556	27.49792245
3-Jul	28.73	27.903123	27.93943287	28.22590278
4-Jul	29.08	27.695048	28.66664352	28.26763889
5-Jul	29.25	28.889044	29.02398148	28.31643519

WFGB Sea-bird			WFGB Hobo	
Date	2009	2010	WFGB 2009	WFGB 2010
8-Jun	26.678183	25.554896	26.695	25.55489583
9-Jun	26.186956	25.634606	27.21	25.63460648
10-Jun	26.377685	26.124954	25.62277778	26.1249537
11-Jun	25.851088	26.432373	26.32888889	26.43237269
12-Jun	26.14235	26.612894	25.79277778	26.61289352
13-Jun	25.837743	26.091563	25.42777778	26.0915625
14-Jun	25.793796	25.6664	26.67111111	25.66640046
15-Jun	26.626771	25.174433	26.79277778	25.17443287
16-Jun	27.411609	25.028264	27.40722222	25.02826389
17-Jun	27.710845	25.898264	27.85	25.89826389
18-Jun	27.746447	25.315521	27.825	25.31552083
19-Jun	27.668704	25.644132	27.80111111	25.64413194
20-Jun	27.575787	25.199734	26.965	25.1997338
21-Jun	27.244954	25.188403	27.35777778	25.18840278
22-Jun	27.827546	25.066065	27.70222222	25.06606481
23-Jun	27.694618	25.370833	28.51777778	25.37083333
24-Jun	28.172986	25.188484	26.62222222	25.1884838
25-Jun	27.647743	24.379803	27.70222222	24.37980324
26-Jun	27.373924	23.36184	26.64611111	23.36184028
27-Jun	26.886319	22.730556	28.07222222	22.73055556
28-Jun	28.328796	22.679352	28.02277778	22.67935185
29-Jun	27.891308	23.002766	28.27	23.0027662
30-Jun	28.492708	24.298044	29.04	24.29804398
1-Jul	28.220301	24.134722	28.81611111	24.13472222
2-Jul	28.597905	24.52713	29.04	24.52712963
3-Jul	28.967072	24.696412	28.51777778	24.69641204
4-Jul	28.757245	25.67794	28.94111111	25.67793981
5-Jul	29.203021	26.434352	29.165	26.43435185

EFGB Sea-bird			EFGB Hobo	
Date	2009	2010	2009	2010
6-Jul	28.79	29.214094	29.19085648	28.16581019
7-Jul	28.54	28.942221	28.73622685	28.1834375
8-Jul	28.68	28.92606	28.47314815	28.65126157
9-Jul	28.42	28.808392	28.6227662	28.32374421
10-Jul	28.28	28.703146	28.35975694	27.5170081
11-Jul	28.06	28.996327	28.21711806	27.58530671
12-Jul	28.27	29.203067	28.00142361	27.47976852
13-Jul	28.42	29.256258	28.20369213	28.18153935
14-Jul	28.51	28.97201	28.3391088	28.02433449
15-Jul	28.66	28.957004	28.43990741	28.09116319
16-Jul	28.51	28.684296	28.59728009	28.0876794
17-Jul	28.81	28.164938	28.43696759	28.65126157
18-Jul	28.89	27.616779	28.68986111	28.32374421
19-Jul	28.85	26.215004	28.80940972	27.5170081
20-Jul	28.75	27.427702	28.76991898	29.41388889
21-Jul	28.46	26.957223	28.68774306	28.51777778
22-Jul	28.60	26.325104	28.35958333	29.54
23-Jul	28.37	26.301598	28.5221875	29.215
24-Jul	27.64	26.747315	28.30597222	30.24277778
25-Jul	28.79	27.247481	27.58394676	29.99111111
26-Jul	28.74	28.177958	28.73527778	29.91611111
27-Jul	27.86	28.990129	28.68530093	30.01611111
28-Jul	27.29	28.897567	27.81376157	29.64
29-Jul	27.90		27.23247685	29.34
30-Jul	28.22	29.704881	27.84928241	28.84111111
31-Jul	28.10	29.074363	28.15666667	29.49
1-Aug	28.19	29.24081	28.0409838	29.54
2-Aug	28.30	29.521701	28.12363426	30.19222222

WFGB Sea-bird			WFGB Hobo	
Date	2009	2010	WFGB 2009	WFGB 2010
6-Jul	28.839259	26.925903	28.89111111	26.92590278
7-Jul	28.844317	28.273796	28.79111111	28.2737963
8-Jul	28.959954	28.957454	28.71722222	28.9574537
9-Jul	28.716354	28.808067	28.64222222	28.80806713
10-Jul	28.57544	28.830104	27.875	28.83010417
11-Jul	28.230961	28.564525	28.295	28.56452546
12-Jul	28.410718	27.907847	27.825	27.90784722
13-Jul	28.488079	28.656042	28.09722222	28.65604167
14-Jul	28.731551	29.038657	28.09722222	29.03865741
15-Jul	28.698426	29.128275	28.14722222	29.12827546
16-Jul	28.726667	28.925706	28.14722222	28.92570602
17-Jul	28.683472	28.209537	28.19611111	28.20953704
18-Jul	28.698322	26.489317	28.54277778	26.48931713
19-Jul	28.833322	26.720142	28.17111111	26.93653439
20-Jul	28.261157	24.832181	27.875	29.665
21-Jul	27.396262	24.954054	27.06277778	28.84111111
22-Jul	26.598044	27.638094	26.67111111	29.215
23-Jul	27.283889	26.581371	28.41888889	29.565
24-Jul	27.945602	28.374627	29.115	30.26777778
25-Jul	29.379329	27.539679	29.665	30.11722222
26-Jul	28.831505	28.318448	28.41888889	29.615
27-Jul	27.64309	28.956375	27.35777778	30.44388889
28-Jul	27.117674	29.278665	27.62777778	28.99
29-Jul	26.605046	25.754592	26.54888889	28.81611111
30-Jul	26.891088	27.16334	25.45277778	30.44388889
31-Jul	26.596296	29.757103	26.28	28.99
1-Aug	26.792894	29.043843	26.81777778	28.81611111
2-Aug	27.391713	28.984954	27.70222222	29.54

EFGB Sea-bird			EFGB Hobo	
Date	2009	2010	2009	2010
3-Aug	28.11	29.563507	28.240625	29.815
4-Aug	27.68	29.965914	28.04893519	30.34277778
5-Aug	28.05	29.936285	27.6256713	30.36888889
6-Aug	27.67	30.025799	27.9721412	30.04111111
7-Aug	27.96	29.896331	27.60267361	30.72222222
8-Aug	28.20	29.456539	27.85925926	30.21722222
9-Aug	27.90	29.105243	28.13431713	29.38888889
10-Aug	28.75	28.9889	27.84171296	29.46388889
11-Aug	28.54	29.589549	29.39355324	29.96611111
12-Aug	28.26591	29.797292	28.40850694	30.67222222
13-Aug	28.561983	29.894317	28.17181713	30.79777778
14-Aug	29.096019	30.24162	28.47645833	30.69722222
15-Aug	28.358867	30.36272	29.04168981	30.36888889
16-Aug	27.698467	30.270428	28.34630787	30.69722222
17-Aug	27.883692	30.483669	27.65885417	30.545
18-Aug	27.512452	30.563218	27.84041667	30.69722222
19-Aug	27.110677	29.871215	27.46800926	30.16722222
20-Aug	27.033498	29.382836	27.04983796	30.04111111
21-Aug	26.978481	29.925938	26.99965278	30.16722222
22-Aug	27.900417	30.404734	26.86896991	30.21722222
23-Aug	28.170898	30.684942	27.73365741	30.24277778
24-Aug	28.44164	30.67603	28.068125	30.16722222
25-Aug	28.349913	30.233368	28.20721065	30.04111111
26-Aug	27.896758	30.576539	28.20736111	30.11722222

WFGB Sea-bird			WFGB Hobo	
Date	2009	2010	WFGB 2009	WFGB 2010
3-Aug	27.642813	29.749352	27.97388889	29.74
4-Aug	28.459039	29.669664	28.36888889	29.91611111
5-Aug	28.095012	29.647338	28.32	29.665
6-Aug	27.977847	29.619688	27.92388889	28.84111111
7-Aug	27.655417	29.047164	28.02277778	29.215
8-Aug	26.58088	29.233322	25.72	29.565
9-Aug	25.792975	29.551412	26.20722222	30.26777778
10-Aug	26.560405	30.223866	26.37777778	30.11722222
11-Aug	26.30853	29.923866	26.085	29.615
12-Aug	26.548322	29.599896	26.62222222	29.665
13-Aug	27.150914	29.69625	25.04	29.89
14-Aug	25.742569	30.018252	26.23111111	30.14222222
15-Aug	26.222512	30.218079	25.86611111	30.52
16-Aug	26.571632	30.571181	26.79277778	30.59611111
17-Aug	26.738472	30.306424	26.57277778	29.715
18-Aug	26.881806	29.789375	26.25611111	30.36888889
19-Aug	26.258819	30.182662	26.28	30.06611111
20-Aug	26.196227	30.035556	26.085	30.46888889
21-Aug	26.294525	30.41963	26.45111111	30.59611111
22-Aug	25.992604	30.4711	25.57388889	30.77277778
23-Aug	25.52603	30.639583	25.57388889	30.52
24-Aug	25.822662	30.58956	26.01222222	30.62111111
25-Aug	26.76934	30.518102	27.01388889	30.44388889
26-Aug	27.652894	30.38691	27.80111111	30.41888889

EFGB Sea-bird			EFGB Hobo	
Date	2009	2010	2009	2010
27-Aug	28.07341	30.6439	27.83556713	29.94111111
28-Aug	27.722906	30.628137	27.94811343	29.91611111
29-Aug	27.542504	30.557778	27.66681713	29.865
30-Aug	27.678321	30.165023	27.44262731	29.84
31-Aug	27.625267	30.15294	27.56336806	29.79
1-Sep	28.031331	30.226863	27.5534375	29.815
2-Sep	28.093785	30.258889	27.94177083	29.74
3-Sep	28.019438	30.230613	28.02244213	29.99111111
4-Sep	28.94574	30.048206	27.89837963	30.01611111
5-Sep	28.610527	30.16713	28.87960648	29.99111111
6-Sep	28.641048	30.067002	28.57180556	29.94111111
7-Sep	29.24879	29.887766	28.53951389	29.91611111
8-Sep	29.503406	29.934398	29.18893519	29.91611111
9-Sep	29.140513	29.909167	29.42717593	29.815
10-Sep	28.82335	29.914421	29.0834375	29.765
11-Sep	28.821298	29.871644	28.76858796	29.46388889
12-Sep	28.435356	29.889329	28.7278588	29.49
13-Sep	28.844677	29.924549	28.34320602	29.46388889
14-Sep	28.690254	30.021481	28.79053241	29.46388889
15-Sep	28.816231	30.063333	28.64760417	29.41388889
16-Sep	28.926156	30.026076	28.76559028	29.43888889
17-Sep	28.971454	29.979699	28.8728588	29.265
18-Sep	28.9808	29.945799	28.91893519	29.19
19-Sep	28.948871	29.949757	28.93650463	29.19
20-Sep	28.840004	29.80735	28.90072917	29.38888889
21-Sep	29.016083	29.588368	28.79239583	29.365
22-Sep	29.03286	29.43919	28.94550926	28.54277778

WFGB Sea-bird			WFGB Hobo	
Date	2009	2010	WFGB 2009	WFGB 2010
27-Aug	27.62588	30.518588	27.11222222	30.545
28-Aug	27.053414	30.365694	27.03777778	30.21722222
29-Aug	26.996192	30.148727	26.81777778	30.26777778
30-Aug	26.998102	30.194282	27.11222222	30.11722222
31-Aug	26.991678	30.160231	26.72	30.04111111
1-Sep	26.428137	30.133044	26.59777778	30.16722222
2-Sep	26.613472	30.218472	26.57277778	30.26777778
3-Sep	26.889792	30.226794	27.03777778	30.36888889
4-Sep	26.8075	30.25831	26.81777778	30.24277778
5-Sep	26.885359	30.180729	26.84222222	30.04111111
6-Sep	27.364977	30.030694	27.72722222	29.96611111
7-Sep	28.835741	29.959745	29.19	29.865
8-Sep	29.248738	29.844259	29.165	29.79
9-Sep	29.121771	29.767604	29.24	29.79
10-Sep	29.18794	29.738438	29.165	29.265
11-Sep	28.23419	29.495544	26.91611111	29.815
12-Sep	26.909375	29.825648	25.74388889	29.91611111
13-Sep	26.285405	29.955394	26.28	29.765
14-Sep	26.689583	29.852986	26.5	29.89
15-Sep	27.154919	29.958565	26.23111111	30.04111111
16-Sep	26.694479	29.999919	26.28	29.99111111
17-Sep	27.412801	29.929688	27.92388889	29.815
18-Sep	27.759063	29.82816	27.85	29.815
19-Sep	27.678553	29.599896	27.70222222	29.46388889
20-Sep	27.91662	29.497245	28.14722222	29.515
21-Sep	28.645926	29.441481	28.74222222	29.43888889
22-Sep	29.025336	29.460521	29.065	29.09

EFGB Sea-bird			EFGB Hobo	
Date	2009	2010	2009	2010
23-Sep	29.18235	29.41066	28.95604167	28.41888889
24-Sep	29.131225	29.479387	29.118125	28.36888889
25-Sep	29.152615	29.455694	29.06719907	28.12222222
26-Sep	29.119333	29.448252	29.0927662	28.04777778
27-Sep	29.100913	29.398565	29.06045139	28.04777778
28-Sep	29.024588	29.254063	29.03346065	27.89888889
29-Sep	28.980965	29.176979	28.96600694	27.85
30-Sep	28.956973	29.310197	28.92421296	27.825
1-Oct	28.999713	29.275069	28.8996875	27.92388889
2-Oct	29.016465	28.894213	28.93645833	27.99777778
3-Oct	28.994306	28.433866	28.95085648	27.60388889
4-Oct	28.971748	28.321875	28.93100694	27.53
5-Oct	29.056056	28.223484	28.90829861	27.55388889
6-Oct	29.183525	28.058981	28.99165509	27.53
7-Oct	29.386515	28.11831	29.11604167	27.65277778
8-Oct	29.345892	27.98537	29.31469907	27.825
9-Oct	29.215438	27.892245	29.28583333	27.85
10-Oct	29.05581	27.796169	29.143125	27.875
11-Oct	28.989952	27.97463	28.98565972	27.505
12-Oct	29.075302	27.941123	28.92459491	27.38222222
13-Oct	29.233763	27.897419	29.00931713	27.33277778
14-Oct	29.534256	27.536331	29.16388889	27.30777778
15-Oct	29.220338	27.587234	29.47793981	27.06277778
16-Oct	28.628983	27.565949	29.16140046	27.18611111
17-Oct	28.418504	27.57287	28.57045139	27.25888889
18-Oct	28.297356	28.069884	28.35322917	26.965
19-Oct	28.176183	27.93485	28.23244213	26.57277778
20-Oct	28.12656	28.073924	28.11358796	26.62222222

WFGB Sea-bird			WFGB Hobo	
Date	2009	2010	WFGB 2009	WFGB 2010
23-Sep	29.106806	29.355613	29.165	29.34
24-Sep	29.20581	29.435324	29.46388889	29.43888889
25-Sep	29.474178	29.40441	29.54	29.315
26-Sep	29.496308	29.29978	29.24	29.41388889
27-Sep	29.445046	29.37735	29.04	29.24
28-Sep	29.06897	29.247106	29.04	29.115
29-Sep	28.851088	29.097431	28.59277778	29.04
30-Sep	29.066042	28.978819	29.215	28.86611111
1-Oct	29.11265	28.913796	29.065	28.84111111
2-Oct	29.080336	28.810521	29.015	28.59277778
3-Oct	28.963356	28.630949	28.91611111	28.245
4-Oct	28.910012	28.275255	28.84111111	28.09722222
5-Oct	28.894711	28.128229	28.94111111	28.09722222
6-Oct	28.923553	28.086262	28.76611111	27.94888889
7-Oct	27.810544	27.784479	27.40722222	27.72722222
8-Oct	28.11588	27.769954	29.065	27.99777778
9-Oct	29.039618	28.001227	28.99	27.92388889
10-Oct	29.07875	27.897813	29.115	27.62777778
11-Oct	29.10875	27.71706	29.065	27.45611111
12-Oct	29.043287	27.650926	29.14	27.70222222
13-Oct	29.08081	27.712477	29.14	27.53
14-Oct	29.165521	27.645706	29.265	28.09722222
15-Oct	29.240995	27.966933	29.165	27.94888889
16-Oct	29.131331	27.901042	28.66722222	27.75111111
17-Oct	28.580174	27.839734	28.49277778	27.55388889
18-Oct	28.555243	27.86831	28.295	27.80111111
19-Oct	28.348137	27.772604	28.39388889	27.33277778
20-Oct	28.332176	27.513426	28.17111111	27.55388889

EFGB Sea-bird			EFGB Hobo	
Date	2009	2010	2009	2010
21-Oct	27.95589	28.004051	28.06206019	26.54888889
22-Oct	27.707688	27.503194	27.88590278	26.62222222
23-Oct	27.62379	27.392986	27.64549769	26.62222222
24-Oct	27.576023	27.339815	27.55951389	26.30388889
25-Oct	27.568898	27.123056	27.51383102	25.84111111
26-Oct	27.114896	27.057569	27.50886574	26.03611111
27-Oct	26.838713	27.177431	27.0515162	25.91388889
28-Oct	26.748221	27.159086	26.7733912	25.67111111
29-Oct	26.871654	26.707072	26.68055556	25.695
30-Oct	26.826304	26.714757	26.80233796	25.16222222
31-Oct	26.799344	26.597535	26.75905093	25.57388889
1-Nov	26.551748	26.650567	26.74173611	25.355
2-Nov	26.44301	26.59816	26.4916088	25.28277778
3-Nov	26.375852	26.534491	26.38358796	25.38
4-Nov	26.245396	26.116493	26.31710648	25.40388889
5-Nov	26.168948	25.938206	26.18138889	25.01611111
6-Nov	26.048088	25.927488	26.10313657	24.77388889
7-Nov	26.065477	25.811424	25.98037037	24.79777778
8-Nov	25.923169	25.71728	25.99145833	24.53222222
9-Nov	25.732015	25.392593	25.85541667	24.895
10-Nov	25.804113	25.340799	25.66113426	24.82277778
11-Nov	25.120775	25.393819	25.76402778	24.91888889
12-Nov	24.677048	25.420116	25.23592593	24.79777778
13-Nov	24.570463	25.400949	24.76885417	24.84722222
14-Nov	24.715783	25.432697	24.58055556	24.79777778
15-Nov	24.94039	25.111563	24.68805556	24.75

WFGB Sea-bird			WFGB Hobo	
Date	2009	2010	WFGB 2009	WFGB 2010
21-Oct	28.124213	27.641146	28.17111111	27.505
22-Oct	28.12191	27.629803	27.97388889	27.89888889
23-Oct	27.846516	27.786019	27.72722222	27.60388889
24-Oct	27.596481	27.670405	27.21	27.94888889
25-Oct	27.295301	27.834792	27.13611111	27.35777778
26-Oct	27.134884	27.608438	27.08722222	27.875
27-Oct	26.989815	27.741759	26.94	27.92388889
28-Oct	26.747917	27.479572	26.965	26.72
29-Oct	27.188947	26.743819	27.35777778	26.76888889
30-Oct	27.285394	26.776447	27.16111111	26.695
31-Oct	26.820972	26.607685	26.5	26.475
1-Nov	26.619028	26.577627	26.72	26.965
2-Nov	26.643877	26.89331	26.54888889	26.72
3-Nov	26.480475	26.695278	26.35277778	26.59777778
4-Nov	26.366273	26.515706	26.35277778	26.085
5-Nov	26.317905	26.154514	26.25611111	25.98722222
6-Nov	26.179907	25.929537	26.10888889	25.86611111
7-Nov	26.073391	25.873449	26.01222222	25.33111111
8-Nov	26.029016	25.256447	26.06111111	25.21
9-Nov	25.920868	25.335521	25.84111111	25.47722222
10-Nov	25.792072	25.521979	25.72	25.38
11-Nov	25.746181	25.406921	25.72	25.355
12-Nov	25.610718	25.376505	25.57388889	25.355
13-Nov	25.565324	25.373495	25.525	25.08888889
14-Nov	25.386331	25.320694	25.33111111	25.21
15-Nov	25.325602	25.168704	25.40388889	25.28277778



EFGB Sea-bird			EFGB Hobo	
Date	2009	2010	2009	2010
16-Nov	24.383517	25.051123	24.89016204	24.50777778
17-Nov	24.289373	24.849861	24.47878472	24.315
18-Nov	24.2475	24.675556	24.38055556	24.26722222
19-Nov	24.253123	24.806019	24.29667824	24.17111111
20-Nov	24.176673	24.86287	24.26993056	23.905
21-Nov	24.042217	24.887419	24.16454861	23.545
22-Nov	24.025877	24.785486	24.08457176	23.42388889
23-Nov	23.850835	24.834549	24.07289352	23.37611111
24-Nov	23.748542	24.845891	23.89833333	23.52
25-Nov	23.704963	24.820694	23.77106481	23.42666667
26-Nov	23.272852	24.645532	23.73842593	23.45777778
27-Nov	23.137019	24.403137	23.41834491	23.44388889
28-Nov	23.305073	24.279144	23.27615741	23.37
29-Nov	23.372365	24.242037	23.31998843	23.34811111
30-Nov	23.231335	24.085127	23.3944213	23.33222222
1-Dec	23.103908	23.702002	23.23951389	23.39777778
2-Dec	23.036833	23.493808	23.14899306	23.445
3-Dec	22.898396	23.523993	23.08306713	23.15611111
4-Dec	22.710806	22.739363	22.98900463	23.4
5-Dec	22.685044	23.268092	22.89206019	23.16
6-Dec	22.919379	23.131429	22.80269676	23.06388889
7-Dec	23.201935	23.073246	22.89146991	23.11222222
8-Dec	23.166865	23.071027	23.12796296	23.01611111
9-Dec	23.168854	22.925631	23.14552083	22.84777778

WFGB Sea-bird			WFGB Hobo	
Date	2009	2010	WFGB 2009	WFGB 2010
16-Nov	25.355336	25.20485	25.21	25.16222222
17-Nov	25.074236	25.150289	24.96777778	25.065
18-Nov	24.813611	25.088912	24.82277778	24.82277778
19-Nov	24.844201	24.85897	24.67722222	24.84722222
20-Nov	24.555127	24.854861	24.29111111	24.75
21-Nov	24.258484	24.687836	24.14611111	24.55722222
22-Nov	24.284352	24.676019	24.33888889	24.82277778
23-Nov	24.297569	24.720833	24.26722222	24.67722222
24-Nov	24.124722	24.650197	24.195	24.58111111
25-Nov	24.096771	24.587963	23.97777778	24.50777778
26-Nov	23.850718	24.482755	23.71277778	24.21888889
27-Nov	23.570775	24.23441	23.52111111	24.07388889
28-Nov	23.609549	24.104074	23.64111111	24.05
29-Nov	23.606088	24.011516	23.61722222	23.85722222
30-Nov	23.55103	23.814213	23.665	23.49722222
1-Dec	23.569502	23.427419	23.545	23.20777778
2-Dec	23.442824	23.204491	23.30388889	23.35222222
3-Dec	23.217998	23.36169	23.13611111	23.4
4-Dec	23.005058	23.386516	22.92	23.28
5-Dec	22.844988	23.154965	22.82388889	22.77611111
6-Dec	22.776771	22.790752	22.77611111	22.77611111
7-Dec	22.826933	22.726609	22.8	22.53722222
8-Dec	22.925509	22.537905	23.01611111	22.41722222
9-Dec	22.834259	22.393206	22.65722222	22.15388889

EFGB Sea-bird			EFGB Hobo	
Date	2009	2010	2009	2010
10-Dec	23.184175	22.820488	23.17601852	22.68111111
11-Dec	23.121654	22.59775	23.1399537	22.60888889
12-Dec	23.141654	22.323435	23.07002315	22.15388889
13-Dec	23.076696	21.962748	23.12601852	21.86722222
14-Dec	23.067827	21.824367	23.07148148	21.77222222
15-Dec	23.0958	21.645567	23.05341435	21.77222222
16-Dec	22.91054	21.71299	23.08146991	21.58111111
17-Dec	22.791602	21.638933	22.88451389	21.485
18-Dec	22.599706	21.434063	22.79825231	21.485
19-Dec	22.389819	21.472073	22.65445602	21.77222222
20-Dec	22.478148	21.678529	22.59150463	21.98722222
21-Dec	22.513346	22.093544	22.56101852	22.17777778
22-Dec	22.190035	21.998698	22.59498843	21.77222222
23-Dec	22.049427	21.762177	22.36650463	21.65222222
24-Dec	21.58401	21.787644	22.17150463	21.795
25-Dec	21.574263	21.734131	21.52631944	21.65222222
26-Dec	21.589081	21.584506	21.53706019	21.485
27-Dec	21.815856	21.379417	21.53377315	21.36611111
28-Dec	21.894177	21.318294	21.75815972	21.67611111
29-Dec	22.253323	21.310221	21.54038194	21.65222222
30-Dec	22.19225	21.407365	21.91383102	21.67611111
31-Dec	22.130208	21.481583	22.07222222	21.7

WFGB Sea-bird			WFGB Hobo	
Date	2009	2010	WFGB 2009	WFGB 2010
10-Dec	22.68897	22.144016	22.56111111	22.10611111
11-Dec	22.459109	22.163553	22.60888889	22.03388889
12-Dec	22.566991	22.03978	22.465	21.84277778
13-Dec	22.62059	21.782373	22.84777778	22.03388889
14-Dec	22.694398	21.838148	22.27388889	21.31777778
15-Dec	22.34588	21.696505	22.345	21.84277778
16-Dec	22.386944	21.799907	22.60888889	21.67611111
17-Dec	22.688646	21.69728	22.84777778	22.05777778
18-Dec	22.815718	22.03478	22.82388889	21.96277778
19-Dec	22.80213	22.120069	22.72888889	22.25
20-Dec	22.613981	22.237998	22.53722222	22.27388889
21-Dec	22.384722	21.988773	21.915	21.485
22-Dec	22.111794	21.70691	22.22611111	21.86722222
23-Dec	22.119248	21.923426	22.01111111	22.01111111
24-Dec	21.80088	22.045	21.60388889	21.72388889
25-Dec	21.540949	21.797037	21.43722222	21.53277778
26-Dec	21.364734	21.569618	21.24611111	21.67611111
27-Dec	21.231956	21.57816	21.24611111	21.34222222
28-Dec	21.21015	21.46485	21.15111111	21.50888889
29-Dec	21.29662	21.482998	21.22277778	21.41277778
30-Dec	21.141516	21.483438	21.15111111	21.72388889
31-Dec	21.060012	21.742257	21.05611111	21.40111111

## 6B. SEA-BIRD DAILY MEAN SALINITY DATA FROM 2009 AND 2010 AT THE FGB (PPT)

Date	EFGB 2009	WFGB 2009
1-Jan-09	NA	NA
2-Jan-09	NA	NA
3-Jan-09	NA	NA
4-Jan-09	NA	NA
5-Jan-09	NA	NA
6-Jan-09	NA	NA
7-Jan-09	NA	NA
8-Jan-09	NA	NA
9-Jan-09	NA	NA
10-Jan-09	NA	NA
11-Jan-09	NA	NA
12-Jan-09	NA	NA
13-Jan-09	NA	NA
14-Jan-09	NA	NA
15-Jan-09	NA	NA
16-Jan-09	NA	NA
17-Jan-09	NA	NA
18-Jan-09	NA	NA
19-Jan-09	NA	NA
20-Jan-09	NA	NA
21-Jan-09	NA	NA
22-Jan-09	NA	NA
23-Jan-09	36.404	36.234
24-Jan-09	36.392	36.279
25-Jan-09	36.396	36.326

Date	EFGB 2010	WFGB 2010
1-Jan-10	36.866	36.618
2-Jan-10	36.878	36.155
3-Jan-10	36.887	37.134
4-Jan-10	36.890	37.111
5-Jan-10	36.890	37.102
6-Jan-10	36.889	37.105
7-Jan-10	36.885	37.108
8-Jan-10	36.888	37.104
9-Jan-10	36.891	37.100
10-Jan-10	36.898	37.104
11-Jan-10	36.883	37.112
12-Jan-10	36.881	37.110
13-Jan-10	36.899	37.105
14-Jan-10	36.894	37.103
15-Jan-10	36.870	36.996
16-Jan-10	36.882	37.035
17-Jan-10	36.884	37.026
18-Jan-10	36.895	37.049
19-Jan-10	36.894	37.011
20-Jan-10	36.882	37.025
21-Jan-10	36.856	37.054
22-Jan-10	36.854	37.059
23-Jan-10	36.866	37.049
24-Jan-10	36.878	37.017
25-Jan-10	36.842	36.970

Date	EFGB 2009	WFGB 2009
26-Jan-09	36.406	36.249
27-Jan-09	36.411	36.274
28-Jan-09	36.389	36.303
29-Jan-09	36.386	36.333
30-Jan-09	36.403	36.357
31-Jan-09	36.385	36.343
1-Feb-09	36.379	36.384
2-Feb-09	36.386	36.395
3-Feb-09	36.383	36.386
4-Feb-09	36.363	36.356
5-Feb-09	36.343	36.347
6-Feb-09	36.337	36.315
7-Feb-09	36.340	36.312
8-Feb-09	36.411	36.249
9-Feb-09	36.434	36.323
10-Feb-09	36.446	36.360
11-Feb-09	36.423	36.381
12-Feb-09	36.337	36.395
13-Feb-09	36.303	36.387
14-Feb-09	36.262	36.369
15-Feb-09	36.278	36.341
16-Feb-09	36.275	36.343
17-Feb-09	36.291	36.352
18-Feb-09	36.292	36.358
19-Feb-09	36.294	36.348
20-Feb-09	36.299	36.350
21-Feb-09	36.220	36.425
22-Feb-09	36.202	36.334
23-Feb-09	36.161	36.203

Date	EFGB 2010	WFGB 2010
26-Jan-10	36.850	36.976
27-Jan-10	36.864	36.753
28-Jan-10	36.869	36.636
29-Jan-10	36.871	36.439
30-Jan-10	36.883	36.403
31-Jan-10	36.888	36.370
1-Feb-10	36.893	36.263
2-Feb-10	36.908	36.327
3-Feb-10	36.864	36.275
4-Feb-10	36.880	36.193
5-Feb-10	36.841	36.281
6-Feb-10	36.851	36.330
7-Feb-10	36.864	37.160
8-Feb-10	36.850	37.134
9-Feb-10	36.874	37.115
10-Feb-10	36.843	37.101
11-Feb-10	36.820	37.097
12-Feb-10	36.821	37.095
13-Feb-10	36.814	37.094
14-Feb-10	36.821	37.088
15-Feb-10	36.833	37.09
16-Feb-10	36.792	37.088
17-Feb-10	36.807	37.128
18-Feb-10	36.806	37.133
19-Feb-10	36.810	37.135
20-Feb-10	36.785	37.135
21-Feb-10	36.751	37.137
22-Feb-10	36.703	36.890
23-Feb-10	36.754	37.116

Date	EFGB 2009	WFGB 2009
24-Feb-09	36.117	36.289
25-Feb-09	36.344	36.312
26-Feb-09	36.408	36.256
27-Feb-09	36.395	36.235
28-Feb-09	36.402	36.352
29-Feb-09	36.402	36.352
1-Mar-09	36.399	36.403
2-Mar-09	36.332	36.334
3-Mar-09	36.354	36.277
4-Mar-09	36.338	36.247
5-Mar-09	36.351	36.203
6-Mar-09	36.155	36.208
7-Mar-09	36.265	36.238
8-Mar-09	36.530	36.267
9-Mar-09	36.561	36.275
10-Mar-09	36.566	36.277
11-Mar-09	36.565	36.309
12-Mar-09	36.570	36.259
13-Mar-09	36.572	36.101
14-Mar-09	36.564	36.266
15-Mar-09	36.586	35.903
16-Mar-09	36.588	35.833
17-Mar-09	36.582	35.861
18-Mar-09	36.559	35.880
19-Mar-09	36.548	35.968
20-Mar-09	36.551	36.015
21-Mar-09	36.555	36.306
22-Mar-09	36.556	36.241
23-Mar-09	36.563	36.189

Date	EFGB 2010	WFGB 2010
24-Feb-10	36.748	37.100
25-Feb-10	36.769	37.126
26-Feb-10	36.762	37.114
27-Feb-10	36.770	37.095
28-Feb-10	36.782	37.074
X	X	X
1-Mar-10	36.785	37.059
2-Mar-10	36.793	37.078
3-Mar-10	36.795	37.124
4-Mar-10	36.794	37.138
5-Mar-10	36.810	36.863
6-Mar-10	36.818	36.857
7-Mar-10	36.806	36.935
8-Mar-10	36.815	37.021
9-Mar-10	36.811	36.904
10-Mar-10	36.802	36.925
11-Mar-10	36.784	36.583
12-Mar-10	36.767	36.801
13-Mar-10	36.530	36.780
14-Mar-10	36.420	36.744
15-Mar-10	36.505	36.765
16-Mar-10	36.688	36.760
17-Mar-10	36.505	36.777
18-Mar-10	36.634	36.546
19-Mar-10	36.592	36.705
20-Mar-10	36.534	36.634
21-Mar-10	36.301	36.307
22-Mar-10	36.269	36.250
23-Mar-10	36.489	36.291

Date	EFGB 2009	WFGB 2009
24-Mar-09	36.564	36.098
25-Mar-09	36.547	35.869
26-Mar-09	36.525	35.853
27-Mar-09	36.522	35.861
28-Mar-09	36.387	36.171
29-Mar-09	36.288	36.227
30-Mar-09	36.194	36.236
31-Mar-09	36.197	36.148
1-Apr-09	36.420	36.342
2-Apr-09	36.499	36.481
3-Apr-09	36.407	36.491
4-Apr-09	36.214	36.517
5-Apr-09	36.129	36.527
6-Apr-09	36.129	36.527
7-Apr-09	36.434	36.526
8-Apr-09	36.488	36.510
9-Apr-09	36.481	36.497
10-Apr-09	36.510	36.500
11-Apr-09	36.469	36.499
12-Apr-09	36.484	36.504
13-Apr-09	36.466	36.507
14-Apr-09	36.382	36.504
15-Apr-09	36.389	36.502
16-Apr-09	36.329	36.511
17-Apr-09	36.223	36.494
18-Apr-09	36.075	36.360
19-Apr-09	36.006	36.256
20-Apr-09	36.118	36.090
21-Apr-09	36.128	36.444

Date	EFGB 2010	WFGB 2010
24-Mar-10	36.546	36.295
25-Mar-10	36.603	36.223
26-Mar-10	36.137	36.148
27-Mar-10	36.521	36.318
28-Mar-10	35.934	36.431
29-Mar-10	36.342	36.464
30-Mar-10	36.232	36.486
31-Mar-10	36.436	36.560
1-Apr-10	36.424	36.433
2-Apr-10	36.304	36.426
3-Apr-10	36.037	36.503
4-Apr-10	35.926	36.59
5-Apr-10	36.138	36.538
6-Apr-10	36.116	36.538
7-Apr-10	36.071	36.442
8-Apr-10	36.181	36.577
9-Apr-10	36.099	36.481
10-Apr-10	36.219	36.454
11-Apr-10	36.222	36.420
12-Apr-10	36.142	36.271
13-Apr-10	36.310	36.367
14-Apr-10	36.386	36.419
15-Apr-10	36.535	36.535
16-Apr-10	36.432	36.496
17-Apr-10	35.686	36.429
18-Apr-10	35.608	36.443
19-Apr-10	35.786	36.254
20-Apr-10	36.159	36.439
21-Apr-10	35.895	36.522

Date	EFGB 2009	WFGB 2009
22-Apr-09	36.265	36.492
23-Apr-09	36.301	36.519
24-Apr-09	36.166	36.507
25-Apr-09	36.048	36.379
26-Apr-09	35.319	36.496
27-Apr-09	35.215	36.511
28-Apr-09	35.302	36.007
29-Apr-09	35.345	36.095
30-Apr-09	35.403	35.696
1-May-09	35.308	35.684
2-May-09	34.923	33.543
3-May-09	34.743	33.778
4-May-09	34.935	32.165
5-May-09	35.822	32.153
6-May-09	36.518	32.177
7-May-09	36.008	32.155
8-May-09	35.577	31.398
9-May-09	35.794	31.476
10-May-09	36.190	32.144
11-May-09	35.987	32.147
12-May-09	36.216	32.195
13-May-09	35.827	32.226
14-May-09	36.146	32.259
15-May-09	36.605	32.244
16-May-09	36.526	32.298
17-May-09	35.933	32.267
18-May-09	36.241	32.323
19-May-09	35.991	32.034
20-May-09	36.118	31.942

Date	EFGB 2010	WFGB 2010
22-Apr-10	35.894	36.556
23-Apr-10	36.036	36.491
24-Apr-10	36.354	36.475
25-Apr-10	36.216	36.432
26-Apr-10	36.306	36.511
27-Apr-10	36.315	36.536
28-Apr-10	36.517	36.527
29-Apr-10	36.770	36.553
30-Apr-10	36.436	36.510
1-May-10	36.513	36.724
2-May-10	35.573	36.741
3-May-10	36.327	36.788
4-May-10	36.352	36.764
5-May-10	36.297	36.823
6-May-10	36.394	36.820
7-May-10	36.408	36.772
8-May-10	36.469	35.928
9-May-10	35.780	35.931
10-May-10	36.258	35.884
11-May-10	36.058	35.959
12-May-10	35.081	35.964
13-May-10	34.907	35.962
14-May-10	34.949	35.916
15-May-10	34.951	35.850
16-May-10	34.730	35.946
17-May-10	34.505	36.013
18-May-10	35.011	36.142
19-May-10	35.484	36.241
20-May-10	35.391	36.274

Date	EFGB 2009	WFGB 2009
21-May-09	35.066	31.833
22-May-09	34.926	31.903
23-May-09	34.807	32.091
24-May-09	35.140	32.149
25-May-09	35.009	31.869
26-May-09	34.875	32.097
27-May-09	36.345	32.191
28-May-09	36.578	32.236
29-May-09	36.632	31.898
30-May-09	36.566	31.899
31-May-09	36.521	31.887
1-Jun-09	36.322	31.976
2-Jun-09	36.066	32.208
3-Jun-09	36.166	32.312
4-Jun-09	36.436	31.698
5-Jun-09	36.185	31.922
6-Jun-09	35.705	32.522
7-Jun-09	36.155	32.507
8-Jun-09	36.331	31.987
9-Jun-09	36.586	32.222
10-Jun-09	36.322	31.949
11-Jun-09	36.166	31.795
12-Jun-09	36.657	31.183
13-Jun-09	36.727	30.968
14-Jun-09	36.816	31.297
15-Jun-09	36.679	31.535
16-Jun-09	36.713	31.567
17-Jun-09	36.676	32.002
18-Jun-09	36.642	32.029

Date	EFGB 2010	WFGB 2010
21-May-10	35.522	36.282
22-May-10	35.535	36.13441773
23-May-10	35.783	36.279
24-May-10	35.440	36.325
25-May-10	35.459	36.349
26-May-10	35.721	36.327
27-May-10	35.937	36.360
28-May-10	35.698	36.352
29-May-10	35.670	36.398
30-May-10	35.384	36.416
31-May-10	35.769	36.416
1-Jun-10	35.482	36.435
2-Jun-10	35.429	36.456
3-Jun-10	35.340	36.587
4-Jun-10	34.897	36.601
5-Jun-10	35.174	36.616
6-Jun-10	35.284	36.561
7-Jun-10	35.553	36.609
8-Jun-10	35.461	36.583
9-Jun-10	35.308	36.550
10-Jun-10	35.392	36.633
11-Jun-10	34.872	36.610
12-Jun-10	35.443	36.600
13-Jun-10	35.688	36.601
14-Jun-10	35.784	36.621
15-Jun-10	35.596	36.485
16-Jun-10	35.556	36.368
17-Jun-10	35.418	36.326
18-Jun-10	35.640	36.206



Date	EFGB 2009	WFGB 2009
19-Jun-09	36.659	31.815
20-Jun-09	36.668	32.001
21-Jun-09	36.648	31.963
22-Jun-09	36.658	32.003
23-Jun-09	36.668	31.977
24-Jun-09	36.655	31.863
25-Jun-09	36.671	32.047
26-Jun-09	36.658	32.204
27-Jun-09	36.652	32.146
28-Jun-09	36.666	31.770
29-Jun-09	36.693	32.447
30-Jun-09	36.698	32.618
1-Jul-09	36.678	32.608
2-Jul-09	36.688	32.584
3-Jul-09	36.708	32.621
4-Jul-09	36.751	32.624
5-Jul-09	36.769	32.640
6-Jul-09	36.673	32.685
7-Jul-09	36.706	32.640
8-Jul-09	36.711	32.703
9-Jul-09	36.708	32.656
10-Jul-09	36.701	32.627
11-Jul-09	36.711	32.635
12-Jul-09	36.726	32.647
13-Jul-09	36.678	32.650
14-Jul-09	36.679	32.652
15-Jul-09	36.665	32.666
16-Jul-09	36.674	32.621
17-Jul-09	36.710	32.654

Date	EFGB 2010	WFGB 2010
19-Jun-10	35.718	36.282
20-Jun-10	35.701	36.235
21-Jun-10	35.783	36.212
22-Jun-10	35.869	36.190
23-Jun-10	36.434	36.046
24-Jun-10	36.500	36.126
25-Jun-10	36.596	36.215
26-Jun-10	36.600	36.174
27-Jun-10	36.751	36.155
28-Jun-10	36.682	36.149
29-Jun-10	36.529	36.028
30-Jun-10	36.622	36.272
1-Jul-10	36.525	36.342
2-Jul-10	36.463	36.367
3-Jul-10	36.496	36.328
4-Jul-10	36.575	36.309
5-Jul-10	36.109	36.264
6-Jul-10	36.298	36.331
7-Jul-10	36.387	36.271
8-Jul-10	36.525	36.292
9-Jul-10	36.561	36.29
10-Jul-10	36.531	36.310
11-Jul-10	36.528	36.466
12-Jul-10	36.558	36.462
13-Jul-10	36.493	36.459
14-Jul-10	36.591	36.476
15-Jul-10	36.305	36.541
16-Jul-10	36.752	36.496
17-Jul-10	36.830	36.533

Date	EFGB 2009	WFGB 2009
18-Jul-09	36.720	32.646
19-Jul-09	36.720	32.649
20-Jul-09	36.720	32.631
21-Jul-09	36.669	32.640
22-Jul-09	36.664	32.652
23-Jul-09	36.683	32.667
24-Jul-09	36.691	32.663
25-Jul-09	36.656	32.671
26-Jul-09	36.638	32.737
27-Jul-09	36.653	32.705
28-Jul-09	36.648	32.664
29-Jul-09	36.660	32.648
30-Jul-09	36.678	32.653
31-Jul-09	36.664	32.659
1-Aug-09	36.715	32.653
2-Aug-09	36.716	32.650
3-Aug-09	36.703	32.644
4-Aug-09	36.710	32.649
5-Aug-09	36.712	32.654
6-Aug-09	36.705	32.636
7-Aug-09	36.691	32.649
8-Aug-09	36.688	32.649
9-Aug-09	36.710	32.629
10-Aug-09	36.716	32.617
11-Aug-09	36.736	32.625
12-Aug-09	36.743	32.639
13-Aug-09	36.749	32.647
14-Aug-09	36.770	32.655
15-Aug-09	36.730	36.528

Date	EFGB 2010	WFGB 2010
18-Jul-10	36.734	36.618
19-Jul-10	36.103	36.618
20-Jul-10	36.335	36.630
21-Jul-10	36.399	36.406
22-Jul-10	37.753	36.316
23-Jul-10	37.107	36.112
24-Jul-10	37.186	36.259
25-Jul-10	36.856	35.955
26-Jul-10	35.990	35.460
27-Jul-10	35.127	35.864
28-Jul-10	35.191	35.674
29-Jul-10	34.795	35.000
30-Jul-10	NA	36.497
31-Jul-10	NA	35.980
1-Aug-10	NA	35.496
2-Aug-10	NA	36.113
3-Aug-10	NA	35.980
4-Aug-10	NA	35.496
5-Aug-10	NA	36.113
6-Aug-10	NA	36.278
7-Aug-10	NA	36.768
8-Aug-10	NA	36.691
9-Aug-10	NA	36.366
10-Aug-10	NA	35.741
11-Aug-10	NA	35.197
12-Aug-10	NA	36.952
13-Aug-10	NA	36.797
14-Aug-10	NA	36.664
15-Aug-10	NA	36.266

Date	EFGB 2009	WFGB 2009
16-Aug-09	36.827	36.550
17-Aug-09	36.885	36.547
18-Aug-09	36.865	36.574
19-Aug-09	36.869	36.614
20-Aug-09	36.837	36.571
21-Aug-09	36.857	36.598
22-Aug-09	36.768	36.551
23-Aug-09	36.734	36.535
24-Aug-09	36.796	36.557
25-Aug-09	36.843	36.606
26-Aug-09	36.837	36.606
27-Aug-09	36.831	36.593
28-Aug-09	36.823	36.577
29-Aug-09	36.818	36.564
30-Aug-09	36.799	36.578
31-Aug-09	36.857	36.592
1-Sep-09	36.881	36.577
2-Sep-09	36.891	36.550
3-Sep-09	36.886	36.585
4-Sep-09	36.882	36.621
5-Sep-09	36.863	36.584
6-Sep-09	36.865	36.602
7-Sep-09	36.809	36.572
8-Sep-09	36.773	36.555
9-Sep-09	36.785	36.551
10-Sep-09	36.834	36.601
11-Sep-09	36.837	36.606
12-Sep-09	36.846	36.600
13-Sep-09	36.872	36.602

Date	EFGB 2010	WFGB 2010
16-Aug-10	NA	35.624
17-Aug-10	NA	35.756
18-Aug-10	NA	36.966
19-Aug-10	NA	37.154
20-Aug-10	NA	36.642
21-Aug-10	NA	37.067
22-Aug-10	NA	36.501
23-Aug-10	NA	36.586
24-Aug-10	NA	37.294
25-Aug-10	NA	37.141
26-Aug-10	NA	36.55
27-Aug-10	NA	35.649
28-Aug-10	NA	35.630
29-Aug-10	NA	35.843
30-Aug-10	NA	36.058
31-Aug-10	NA	35.967
1-Sep-10	NA	35.434
2-Sep-10	NA	34.609
3-Sep-10	NA	34.621
4-Sep-10	NA	34.658
5-Sep-10	NA	34.630
6-Sep-10	NA	34.668
7-Sep-10	NA	34.736
8-Sep-10	NA	34.681
9-Sep-10	NA	34.741
10-Sep-10	NA	34.415
11-Sep-10	NA	34.211
12-Sep-10	NA	34.122
13-Sep-10	NA	34.189

Date	EFGB 2009	WFGB 2009
14-Sep-09	36.843	36.588
15-Sep-09	36.750	36.531
16-Sep-09	36.593	36.475
17-Sep-09	36.521	36.424
18-Sep-09	36.538	36.406
19-Sep-09	36.614	36.412
20-Sep-09	36.668	36.476
21-Sep-09	36.681	36.520
22-Sep-09	36.745	36.525
23-Sep-09	36.783	36.561
24-Sep-09	36.623	36.479
25-Sep-09	36.735	36.536
26-Sep-09	36.908	36.613
27-Sep-09	36.959	36.664
28-Sep-09	36.947	36.661
29-Sep-09	36.988	36.671
30-Sep-09	36.949	36.641
1-Oct-09	36.947	36.629
2-Oct-09	36.964	36.661
3-Oct-09	36.980	36.667
4-Oct-09	36.972	36.677
5-Oct-09	36.864	36.619
6-Oct-09	36.736	36.565
7-Oct-09	36.747	36.569
8-Oct-09	36.790	36.590
9-Oct-09	36.868	36.602
10-Oct-09	36.924	36.620
11-Oct-09	36.892	36.631
12-Oct-09	36.907	36.641

Date	EFGB 2010	WFGB 2010
14-Sep-10	NA	34.456
15-Sep-10	NA	34.553
16-Sep-10	NA	34.424
17-Sep-10	NA	34.494
18-Sep-10	NA	34.395
19-Sep-10	NA	34.502
20-Sep-10	NA	34.445
21-Sep-10	NA	34.320
22-Sep-10	NA	34.355
23-Sep-10	NA	34.453
24-Sep-10	NA	34.476
25-Sep-10	NA	34.381
26-Sep-10	NA	34.446
27-Sep-10	NA	34.472
28-Sep-10	NA	34.615
29-Sep-10	NA	34.817
30-Sep-10	NA	34.849
1-Oct-10	NA	34.767
2-Oct-10	NA	34.794
3-Oct-10	NA	34.784
4-Oct-10	NA	34.952
5-Oct-10	NA	35.504
6-Oct-10	NA	35.557
7-Oct-10	NA	35.735
8-Oct-10	NA	36.053
9-Oct-10	NA	36.218
10-Oct-10	NA	36.323
11-Oct-10	NA	36.413
12-Oct-10	NA	36.145

Date	EFGB 2009	WFGB 2009
13-Oct-09	36.909	36.632
14-Oct-09	36.919	36.625
15-Oct-09	36.925	36.618
16-Oct-09	36.916	36.637
17-Oct-09	36.908	36.617
18-Oct-09	36.893	36.583
19-Oct-09	36.880	36.544
20-Oct-09	36.934	36.608
21-Oct-09	36.760	36.560
22-Oct-09	36.730	36.517
23-Oct-09	36.748	36.543
24-Oct-09	36.789	36.562
25-Oct-09	36.861	36.598
26-Oct-09	36.830	36.573
27-Oct-09	36.828	36.599
28-Oct-09	36.819	36.578
29-Oct-09	36.815	36.566
30-Oct-09	36.827	36.598
31-Oct-09	36.824	36.599
1-Nov-09	36.837	36.596
2-Nov-09	36.796	36.564
3-Nov-09	36.821	36.566
4-Nov-09	36.851	36.604
5-Nov-09	36.756	36.541
6-Nov-09	36.739	36.507
7-Nov-09	36.830	36.519
8-Nov-09	36.841	36.562
9-Nov-09	36.781	36.570
10-Nov-09	36.796	36.551

Date	EFGB 2010	WFGB 2010
13-Oct-10	NA	36.13
14-Oct-10	NA	36.100
15-Oct-10	NA	35.974
16-Oct-10	NA	35.688
17-Oct-10	NA	35.986
18-Oct-10	NA	36.019
19-Oct-10	NA	36.063
20-Oct-10	NA	36.030
21-Oct-10	NA	35.933
22-Oct-10	NA	35.804
23-Oct-10	NA	35.696
24-Oct-10	NA	35.697
25-Oct-10	NA	35.576
26-Oct-10	NA	35.238
27-Oct-10	NA	34.997
28-Oct-10	NA	34.531
29-Oct-10	NA	34.579
30-Oct-10	NA	34.381
31-Oct-10	NA	35.024
1-Nov-10	NA	35.679
2-Nov-10	NA	35.341
3-Nov-10	NA	35.468
4-Nov-10	NA	35.412
5-Nov-10	NA	34.474
6-Nov-10	NA	36.396
7-Nov-10	NA	35.365
8-Nov-10	NA	35.552
9-Nov-10	NA	35.676
10-Nov-10	NA	34.564

Date	EFGB 2009	WFGB 2009
11-Nov-09	36.817	36.578
12-Nov-09	36.816	36.575
13-Nov-09	36.824	36.580
14-Nov-09	36.838	36.578
15-Nov-09	36.864	36.617
16-Nov-09	36.851	36.613
17-Nov-09	36.812	36.583
18-Nov-09	36.819	36.575
19-Nov-09	36.811	36.571
20-Nov-09	36.754	36.532
21-Nov-09	36.746	36.552
22-Nov-09	36.784	36.555
23-Nov-09	36.757	36.515
24-Nov-09	36.754	36.482
25-Nov-09	36.745	36.514
26-Nov-09	36.780	36.570
27-Nov-09	36.779	36.558
28-Nov-09	36.800	36.558
29-Nov-09	36.878	36.624
30-Nov-09	36.882	36.628
1-Dec-09	36.869	36.612
2-Dec-09	36.864	36.598
3-Dec-09	36.860	36.586
4-Dec-09	36.866	36.612
5-Dec-09	36.872	36.599
6-Dec-09	36.884	36.579
7-Dec-09	36.888	36.548
8-Dec-09	36.886	36.585
9-Dec-09	36.872	36.616

Date	EFGB 2010	WFGB 2010
11-Nov-10	NA	35.918
12-Nov-10	NA	36.091
13-Nov-10	NA	35.905
14-Nov-10	NA	35.938
15-Nov-10	NA	35.910
16-Nov-10	NA	35.885
17-Nov-10	NA	35.912
18-Nov-10	NA	35.890
19-Nov-10	NA	35.886
20-Nov-10	NA	35.961
21-Nov-10	NA	37.405
22-Nov-10	NA	37.345
23-Nov-10	NA	37.474
24-Nov-10	NA	37.746
25-Nov-10	NA	37.719
26-Nov-10	NA	37.478
27-Nov-10	NA	37.583
28-Nov-10	NA	37.606
29-Nov-10	NA	37.576
30-Nov-10	NA	37.620
1-Dec-10	NA	37.614
2-Dec-10	NA	37.549
3-Dec-10	NA	37.591
4-Dec-10	NA	37.586
5-Dec-10	36.886	37.706
6-Dec-10	36.887	37.711
7-Dec-10	36.887	37.628
8-Dec-10	36.887	37.559
9-Dec-10	36.888	37.651

Date	EFGB 2009	WFGB 2009
10-Dec-09	36.867	36.586
11-Dec-09	36.593	36.466
12-Dec-09	36.521	36.428
13-Dec-09	36.538	36.437
14-Dec-09	36.614	36.466
15-Dec-09	36.668	36.518
16-Dec-09	36.681	36.508
17-Dec-09	36.745	36.531
18-Dec-09	36.783	36.576
19-Dec-09	36.623	36.499
20-Dec-09	36.735	36.545
21-Dec-09	36.656	36.494
22-Dec-09	36.638	36.474
23-Dec-09	36.653	36.505
24-Dec-09	36.648	36.487
25-Dec-09	36.830	36.552
26-Dec-09	36.828	36.519
27-Dec-09	36.819	36.565
28-Dec-09	36.815	36.586
29-Dec-09	36.857	36.598
30-Dec-09	36.881	36.608
31-Dec-09	36.891	36.613

Date	EFGB 2010	WFGB 2010
10-Dec-10	36.887	37.628
11-Dec-10	36.887	37.658
12-Dec-10	36.888	37.655
13-Dec-10	36.889	37.698
14-Dec-10	36.888	37.758
15-Dec-10	36.889	37.799
16-Dec-10	36.888	37.874
17-Dec-10	36.887	37.923
18-Dec-10	36.885	37.974
19-Dec-10	36.883	37.923
20-Dec-10	36.881	38.075
21-Dec-10	36.881	38.123
22-Dec-10	36.882	38.165
23-Dec-10	36.881	38.066
24-Dec-10	36.882	37.963
25-Dec-10	36.886	38.015
26-Dec-10	36.883	38.017
27-Dec-10	36.883	37.930
28-Dec-10	36.884	37.920
29-Dec-10	36.884	37.960
30-Dec-10	36.888	37.954
31-Dec-10	36.885	37.947

## **APPENDIX 7**

### **Fish Survey Data from 2009 and 2010 at the FGB**



## 7. FISH SURVEY DATA FROM 2009 AND 2010 AT THE FGB

No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)
1	08-18-2009	EFGB	NE Quadrant	60	(4-7pm)	First 5mins	Snapper, Dog	<i>Lutjanus jocu</i>	P								2	0.35	1484.112
2	08-18-2009	EFGB	NE Quadrant	60	(4-7pm)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	33	42								184.722
3	08-18-2009	EFGB	NE Quadrant	60	(4-7pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL			1	46						3793.4508
4	08-18-2009	EFGB	NE Quadrant	60	(4-7pm)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	26	1								8.874872
5	08-18-2009	EFGB	NE Quadrant	60	(4-7pm)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I	8	2								28.128522
6	08-18-2009	EFGB	NE Quadrant	60	(4-7pm)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H		3								29.467277
7	08-18-2009	EFGB	NE Quadrant	60	(4-7pm)	First 5mins	Grouper, Yellowmouth	<i>Mycteroperca interstitialis</i>	P					1					177.65378
8	08-18-2009	EFGB	NE Quadrant	60	(4-7pm)	First 5mins	Chub	<i>Kyphosus incisor</i> / <i>Kyphosus sectatrix</i>	H								3	0.35	2974.4048
9	08-18-2009	EFGB	NE Quadrant	60	(4-7pm)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H	4					1				369.21094
10	08-18-2009	EFGB	NE Quadrant	60	(4-7pm)	First 5mins	Hawkfish, Redspotted	<i>Amblycirrhitis pinos</i>	I	1									0.0600778
11	08-18-2009	EFGB	NE Quadrant	60	(4-7pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	11									3.5955968
12	08-18-2009	EFGB	NE Quadrant	60	(4-7pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H				2						326.92188
13	08-18-2009	EFGB	NE Quadrant	60	(4-7pm)	First 5mins	Silversides	<i>Menidiinae sp.</i>	H	41	0								60.443798
14	08-18-2009	EFGB	NE Quadrant	60	(4-7pm)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL	10	1								6.2248356



No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
31	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H		4									41.718096
32	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL	30 0										65.824333
33	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Silversides	<i>Menidiinae sp.</i>	H		50 0									2462.4519
34	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL					10 0						17580.255
35	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I		4									47.945652
36	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Angelfish, Rock Beauty	<i>Holacanthus tricolor</i>	I				1							152.77297
37	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I		20 0	75								2303.313
38	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Butterflyfish, Reef	<i>Chaetodon sedentarius</i>	I			2								118.79521
39	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H					2						403.22813
40	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Filefish, Orange Spotted	<i>Cantherhines pullus</i>	I			1								44.238569
41	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Blenny, Redlip	<i>Ophioblennius macclurei</i>	H		3									11.733755
42	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I	1	1	1								39.42126
43	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Sunshinefish	<i>Chromis insolata</i>	PL	20										4.5861371
44	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H						1					561.64668
45	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I		2									14.07343
46	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Jack, Horse-eye	<i>Caranx latus</i>	P									30	0.35	24278.544
47	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Jack, Black	<i>Caranx lugubris</i>	P									1	0.35	609.29409
48	08-18-2009	EFGB	NE Quadrant	63	(4-7pm)	First 5mins	Triggerfish, Ocean	<i>Canthidermis sufflamen</i>	I									1	0.35	930.3875

























No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)
239	08-18-2009	EFGB	SW Quadrant	61	(4-7pm)	First 5mins	Butterflyfish, Longsnout	<i>Prognathodes aculeatus</i>	I		1								12.990023
240	08-18-2009	EFGB	SW Quadrant	61	(4-7pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H				40						6538.4375
241	08-18-2009	EFGB	SW Quadrant	61	(4-7pm)	First 5mins	Graysby	<i>Cephalopholis cruentata</i>	P				1						82.002791
242	08-18-2009	EFGB	SW Quadrant	61	(4-7pm)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	10	8								38.585606
243	08-18-2009	EFGB	SW Quadrant	61	(4-7pm)	First 5mins	Snapper, Dog	<i>Lutjanus jocu</i>	P							1			585.39051
244	08-18-2009	EFGB	SW Quadrant	61	(4-7pm)	First 5mins	Chub	<i>Kyphosus incisor</i> / <i>Kyphosus sectatrix</i>	H							2			1578.2653
245	08-18-2009	EFGB	SW Quadrant	61	(4-7pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H		2				1	1			1499.9058
246	08-18-2009	EFGB	SW Quadrant	61	(4-7pm)	First 5mins	Parrotfish, Redband	<i>Sparisoma aurofrenatum</i>	H	5									1.609375
247	08-18-2009	EFGB	SW Quadrant	61	(4-7pm)	First 5mins	Jack, Horse-eye	<i>Caranx latus</i>	P							25	1	0.35	17044.307
248	08-18-2009	EFGB	SW Quadrant	61	(4-7pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL				4						327.30945
249	08-18-2009	EFGB	SW Quadrant	61	(4-7pm)	First 5mins	Butterflyfish, Reef	<i>Chaetodon sedentarius</i>	I			2							118.79521
250	08-18-2009	EFGB	SW Quadrant	61	(4-7pm)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL	12		4							120.20146
251	08-18-2009	EFGB	SW Quadrant	61	(4-7pm)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H						2		1	0.35	1495.0969
252	08-18-2009	EFGB	SW Quadrant	61	(4-7pm)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	8									2.2830025
253	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	4	41								175.64824
254	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	7	1								5.7644981
255	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL				21						1718.3746

No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)
256	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL	2	5								22.769977
257	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I	1	1								7.0444337
258	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I	9	1								16.661571
259	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H			3							178.71094
260	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	9	4								44.659948
261	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H	1	1								10.258041
262	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H	1					1	1			1474.6556
263	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Butterflyfish, Spotfin	<i>Chaetodon ocellatus</i>	I		2								25.980047
264	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Butterflyfish, Reef	<i>Chaetodon sedentarius</i>	I		1								12.341336
265	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Graysby	<i>Cephalopholis cruentata</i>	P			1							29.071138
266	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H					2					403.22813
267	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Chub	<i>Kyphosus incisor</i> / <i>Kyphosus sectatrix</i>	H						2				943.46098
268	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	2	2								14.64418
269	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Parrotfish, Redband	<i>Sparisoma aurofrenatum</i>	H		2								17.38125
270	08-18-2009	EFGB	SW Quadrant	62	(12-4pm)	First 5mins	Hawkfish, Redspotted	<i>Amblycirrhitis pinos</i>	I		1								2.5930345
271	08-18-2009	EFGB	SW Quadrant	63	(9-12pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL			38							1116.9006
272	08-18-2009	EFGB	SW Quadrant	63	(9-12pm)	First 5mins	Durgon, Black	<i>Melichthys niger</i>	H					2					741.50598



No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
273	08-18-2009	EFGB	SW Quadrant	63	(9-12pm)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	33	28									124.9709
274	08-18-2009	EFGB	SW Quadrant	63	(9-12pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H		11									114.72476
275	08-18-2009	EFGB	SW Quadrant	63	(9-12pm)	First 5mins	Jack, Horse-eye	<i>Caranx latus</i>	P							2				1298.8018
276	08-18-2009	EFGB	SW Quadrant	63	(9-12pm)	First 5mins	Butterflyfish, Reef	<i>Chaetodon sedentarius</i>	I		2									24.682672
277	08-18-2009	EFGB	SW Quadrant	63	(9-12pm)	First 5mins	Hind, Rock	<i>Epinephelus adscensionis</i>	I						1					318.19219
278	08-18-2009	EFGB	SW Quadrant	63	(9-12pm)	First 5mins	Chub	<i>Kyphosus incisor</i> / <i>Kyphosus sectatrix</i>	H						2					943.46098
279	08-18-2009	EFGB	SW Quadrant	63	(9-12pm)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	6										0.9822233
280	08-18-2009	EFGB	SW Quadrant	63	(9-12pm)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H					2	3					1507.5422
281	08-18-2009	EFGB	SW Quadrant	63	(9-12pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H				4							653.84375
282	08-18-2009	EFGB	SW Quadrant	63	(9-12pm)	First 5mins	Triggerfish, Ocean	<i>Canthidermis sufflamen</i>	I						1					451.29219
283	08-18-2009	EFGB	SW Quadrant	63	(9-12pm)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL				3							245.48209
284	08-18-2009	EFGB	SW Quadrant	63	(9-12pm)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I		4									28.14686
285	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Chub	<i>Kyphosus incisor</i> / <i>Kyphosus sectatrix</i>	H						5			2		2358.6524
286	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I			50	0							9664.8392
287	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL	20	10									664.95953
288	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Angelfish, Queen	<i>Holacanthus ciliaris</i>	I					1						281.16367



No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
306	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Butterflyfish, Reef	<i>Chaetodon sedentarius</i>	I		1									12.341336
307	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Parrotfish, Princess	<i>Scarus taeniopterus</i>	H			1								34.570313
308	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I	11	3									41.673322
309	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H	1	6									59.370169
310	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Blenny, Redlip	<i>Ophioblennius macclurei</i>	H	2										0.5731579
311	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Damselfish, Dusky	<i>Stegastes adustus</i>	H	3										1.5583861
312	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H				2							326.92188
313	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	64	1									15.09562
314	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Butterflyfish, Reef	<i>Chaetodon sedentarius</i>	I		2									24.682672
315	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H	2				1						202.16719
316	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL	1	7									31.564685
317	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	11 5	92									411.70769
318	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	3	2									14.929556
319	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	14										4.5762141
320	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Sunshinefish	<i>Chromis insolata</i>	PL	2										0.4586137
321	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Grouper, Yellowmouth	<i>Mycteroperca interstitialis</i>	P					1		1				701.36868
322	08-19-2009	EFGB	NE Quadrant	65	(6-9am)	First 5mins	Chub	<i>Kyphosus incisor</i> <i>Kyphosus sectatrix</i>	H									3	0.35	2974.4048





No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
356	08-19-2009	EFGB	NE Quadrant	86	(6-9am)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	59	1									14.2771
357	08-19-2009	EFGB	NE Quadrant	86	(6-9am)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I	3	6									73.476864
358	08-19-2009	EFGB	NE Quadrant	86	(6-9am)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL					80						14064.204
359	08-19-2009	EFGB	NE Quadrant	86	(6-9am)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H			15								893.55469
360	08-19-2009	EFGB	NE Quadrant	86	(6-9am)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I	2		2								65.229325
361	08-19-2009	EFGB	NE Quadrant	86	(6-9am)	First 5mins	Parrotfish, Redband	<i>Sparisoma aurofrenatum</i>	H	10										3.21875
362	08-19-2009	EFGB	NE Quadrant	86	(6-9am)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL	86										18.869642
363	08-19-2009	EFGB	NE Quadrant	86	(6-9am)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H	5				1			1	0.35		961.88438
364	08-19-2009	EFGB	NE Quadrant	86	(6-9am)	First 5mins	Bonnetmouth	<i>Emmelichthys atlanticus</i>	P	30	0									59.97946
365	08-19-2009	EFGB	NE Quadrant	86	(6-9am)	First 5mins	Doctorfish	<i>Acanthurus chirurgus</i>	H			1								43.945313
366	08-19-2009	EFGB	NE Quadrant	86	(6-9am)	First 5mins	Grouper, Yellowmouth	<i>Mycteroperca interstitialis</i>	P					1					0.58	177.65378
367	08-19-2009	EFGB	NE Quadrant	86	(6-9am)	First 5mins	Damselfish, Yellowtail	<i>Microspathodon chrysurus</i>	H			1								57.421504
368	08-19-2009	EFGB	NE Quadrant	86	(6-9am)	First 5mins	Filefish, Orange Spotted	<i>Cantherhines pullus</i>	I			1								44.238569
369	08-19-2009	EFGB	NE Quadrant	86	(6-9am)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H									1	0.35	1131.6689
370	08-19-2009	EFGB	NE Quadrant	86	(6-9am)	First 5mins	Damselfish, Dusky	<i>Stegastes adustus</i>	H	2										1.0389241
371	08-19-2009	EFGB	NE Quadrant	86	(6-9am)	First 5mins	Grouper, Tiger	<i>Mycteroperca tigris</i>	P									1	0.6	3318.637



No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)
389	08-19-2009	EFGB	SE Quadrant	59	(6-9am)	First 5mins	Snapper, Dog	<i>Lutjanus jocu</i>	P								2	0.35	1484.112
390	08-19-2009	EFGB	SE Quadrant	59	(6-9am)	First 5mins	Angelfish, French	<i>Pomacanthus paru</i>	I								2	0.35	2724.4745
391	08-19-2009	EFGB	SE Quadrant	59	(6-9am)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H				2						326.92188
392	08-19-2009	EFGB	SE Quadrant	59	(6-9am)	First 5mins	Butterflyfish, Spotfin	<i>Chaetodon ocellatus</i>	I				2						325.59869
393	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	15 7	14 0								623.52877
394	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Chub	<i>Kyphosus incisor</i> / <i>Kyphosus sectatrix</i>	H							60			28303.829
395	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Bonnetmouth	<i>Emmelichthys atlanticus</i>	P	32 5									64.977748
396	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL	20 0									43.882889
397	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL	15	6								29.51695
398	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL				17 5						14319.788
399	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H		17								177.30191
400	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I	9	5								64.607224
401	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Sergeant Major	<i>Abudefduf saxatilis</i>	I			3							134.87437
402	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	32									5.2385245
403	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	2	7								49.827755
404	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Grouper, Yellowmouth	<i>Mycteroperca interstitialis</i>	P							1	1	0.35	971.6816





No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
422	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H			8								476.5625
423	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I	4										0.9513468
424	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Damselfish, Yellowtail	<i>Microspathod on chrysurus</i>	H			1								57.421504
425	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL							30				16147.901
426	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Hogfish, Spotfin	<i>Bodianus pulchellus</i>	I	1										0.2378367
427	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Parrotfish, Redband	<i>Sparisoma aurofrenatum</i>	H		1									8.690625
428	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H			1								56.849325
429	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Angelfish, Rock Beauty	<i>Holacanthus tricolor</i>	I	4										2.3486392
430	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Trunkfish, Spotted	<i>Lactophrys bicaudalis</i>	I		1									12.403125
431	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Surgeonfish, Ocean	<i>Acanthurus bahianus</i>	H			1								45.657929
432	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Scamp	<i>Mycteroperca phenax</i>	P			1								26.34966
433	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Bonnetmouth	<i>Emmelichthys atlanticus</i>	P	40										79.972613
434	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Hawkfish, Redspotted	<i>Amblycirrhitis pinos</i>	I	1										0.0600778
435	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Blue runner	<i>Caranx crysos</i>	P						4					1560.2573
436	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Reeffish, Purple	<i>Chromis scotti</i>	PL	1										0.3064353
437	08-19-2009	EFGB	SE Quadrant	60	(6-9am)	First 5mins	Jack, Bar	<i>Carangoides ruber</i>	P					10						337.83988

No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)
438	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Grouper, Yellowmouth	<i>Mycteroperca interstitialis</i>	P					1	1				498.13012
439	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	3	4								29.002986
440	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	58	2								18.731967
441	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H			1	2						386.49219
442	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	1	14								146.34021
443	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL	18	4								21.070333
444	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	60	66								291.62686
445	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H	4	2								21.387312
446	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL				45						3682.2313
447	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I	2	1	1							39.659096
448	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Damselfish, Yellowtail	<i>Microspathod on chrysurus</i>	H			2							114.84301
449	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H					1	1				569.71875
450	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Chub	<i>Kyphosus incisor</i> / <i>Kyphosus sectatrix</i>	H						10				4717.3049
451	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Jack, Horse-eye	<i>Caranx latus</i>	P							5	2	0.35	4865.574
452	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I	4	5								62.009913
453	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Angelfish, French	<i>Pomacanthus paru</i>	I						2				1281.9764

No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
454	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Graysby	<i>Cephalopholis cruentata</i>	P			1		1						206.98586
455	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Angelfish, Rock Beauty	<i>Holacanthus tricolor</i>	I				1							152.77297
456	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H		1									12.890053
457	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL	22				2						356.43222
458	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Blenny, Redlip	<i>Ophioblennius macclurei</i>	H	1	1									4.1978306
459	08-19-2009	EFGB	SE Quadrant	63	(6-9am)	First 5mins	Bonnetmouth	<i>Emmelichthys atlanticus</i>	P	12 5										24.991442
460	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Butterflyfish, Longsnout	<i>Prognathodes aculeatus</i>	I		1									12.990023
461	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL	43	97									442.46854
462	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Reeffish, Purple	<i>Chromis scotti</i>	PL	12										3.6772234
463	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	22	2									28.050242
464	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	48	2									17.094929
465	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL	14				6	12					4943.0068
466	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H			1	4							713.41406
467	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I	2	4		1							118.14261
468	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Sunshinefish	<i>Chromis insolata</i>	PL	1	1									6.1349145
469	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Chub	<i>Kyphosus incisor</i> <i>Kyphosus sectatrix</i>	H									1	0.35	991.46828
470	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H						2			1	0.35	1495.0969

No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)
471	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Damselfish, Yellowtail	<i>Microspathod on chrysurus</i>	H				2						323.94491
472	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Filefish, Orange Spotted	<i>Cantherhines pullus</i>	I				1						104.79178
473	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL					7					1230.6179
474	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	6	2								15.785682
475	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Wrasse, Yellowhead	<i>Halichoeres garnoti</i>	I	2	1								4.8993254
476	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Moray, Spotted	<i>Gymnothorax meleagris</i>	P								1	1.3	4740.5978
477	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Grouper, Yellowmouth	<i>Mycteroperca interstitialis</i>	P			1							31.555371
478	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Barracuda, Great	<i>Sphyræna barracuda</i>	P								1	0.52	885.8304
479	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H	1							1	0.35	1132.1989
480	08-19-2009	EFGB	SE Quadrant	66	(6-9am)	First 5mins	Blenny, Redlip	<i>Ophioblennius macclurei</i>	H	2	4								16.218164
481	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Sergeant Major	<i>Abudefduf saxatilis</i>	I		2								18.267119
482	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H				4						604.34822
483	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Snapper, Grey	<i>Lutjanus agennes</i>	I						7				2171.7386
484	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Cardinal fish sp.	<i>Apogon sp.</i>	I	1									0.2622825
485	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Doctorfish	<i>Acanthurus chirurgus</i>	H				4						482.34375
486	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Trumpetfish	<i>Aulostomus maculatus</i>	P					2					60.040608
487	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Squirrelfish, Longspine	<i>Holocentrus rufus</i>	I				1						95.17977

No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
488	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Butterflyfish, Reef	<i>Chaetodon sedentarius</i>	I			2								118.79521
489	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I		4									27.226388
490	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	6										1.9612346
491	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Durgon, Black	<i>Melichthys niger</i>	H						3					2269.539
492	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Jack, Horse-eye	<i>Caranx latus</i>	P									5	0.35	4046.424
493	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL					12						2109.6306
494	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL					18						3164.4459
495	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H	3										1.3068451
496	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I	6										3.1167722
497	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Damselfish, Dusky	<i>Stegastes adustus</i>	H		2									23.972826
498	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Butterflyfish, Spotfin	<i>Chaetodon ocellatus</i>	I			2								119.29894
499	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Damselfish, Yellowtail	<i>Microspathod on chrysurus</i>	H	3	1									13.101972
500	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL	8										1.3923669
501	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Jack, Black	<i>Caranx lugubris</i>	P					3						521.1867
502	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Butterflyfish, Longsnout	<i>Prognathodes aculeatus</i>	I			2								119.29894
503	08-20-2009	WFGB	NE Quadrant	60	(12-4pm)	First 5mins	Graysby	<i>Cephalopholis cruentata</i>	P							1				552.59874
504	08-20-2009	WFGB	NE Quadrant	63	(12-4pm)	First 5mins	Trunkfish, Smooth	<i>Lactophrys triqueter</i>	I		1									13.035938
505	08-20-2009	WFGB	NE Quadrant	63	(12-4pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL					5	25					8973.0121



No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
524	08-20-2009	WFGB	NE Quadrant	63	(12-4pm)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I	4	2									26.050674
525	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL				33	12						4809.9336
526	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	68	8									45.412327
527	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I	4	7									85.98274
528	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL	10			3							247.67623
529	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	17										2.7829661
530	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H							1				607.60781
531	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H		1									12.890053
532	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Blenny, Redlip	<i>Ophioblennius macclurei</i>	H		2									7.8225032
533	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL		3									13.453131
534	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H	1	1									10.258041
535	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I		5									35.183575
536	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H				2							326.92188
537	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I	1	1	2								71.798086
538	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Wrasse, Yellowhead	<i>Halichoeres garnoti</i>	I		2									9.340392
539	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Reefish, Purple	<i>Chromis scotti</i>	PL	20										6.1287057
540	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Filefish, Whitespotted	<i>Cantherhines macrocerus</i>	I							2				1150.8518
541	08-20-2009	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Durgon, Black	<i>Melichthys niger</i>	H					1						370.75299









No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
595	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I	2										1.0389241
596	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Blenny, Redlip	<i>Ophioblennius macclurei</i>	H	1										0.286579
597	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL	4		4								118.44614
598	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H		2									20.859048
599	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I		3									20.419791
600	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Butterflyfish, Spotfin	<i>Chaetodon ocellatus</i>	I			2								119.29894
601	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Parrotfish, Redband	<i>Sparisoma aurofrenatum</i>	H				1							110.40313
602	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Barracuda, Great	<i>Sphyaena barracuda</i>	P								1	0.62		1501.4664
603	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	4										1.1415013
604	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Angelfish, Rock Beauty	<i>Holacanthus tricolor</i>	I							1				896.20304
605	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H				12							1961.5313
606	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Scamp	<i>Mycteroperca phenax</i>	P								1	0.35		578.42774
607	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	24		8	1							239.21384
608	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Jack, Black	<i>Caranx lugubris</i>	P								1	0.35		609.29409
609	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H							1				912.47902
610	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL		10									448.4377
611	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I		10									426.79358
612	08-20-2009	WFGB	NE Quadrant	74	(12-4pm)	First 5mins	Durgon, Black	<i>Melichthys niger</i>	H							2				2739.6271











No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
681	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Damselfish, Yellowtail	<i>Microspathod on chrysurus</i>	H		1	1								69.315744
682	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Angelfish, Rock Beauty	<i>Holacanthus tricolor</i>	I				1							152.77297
683	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H		1									12.890053
684	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL					13						2285.4332
685	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H							1	1	0.35		2044.148
686	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H				3	1						837.79688
687	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I	2	4		1							118.14261
688	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	2	12									125.80803
689	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	37	4									24.531328
690	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I	6										3.1167722
691	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Sunshinefish	<i>Chromis insolata</i>	PL	3										0.6879206
692	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL	2	13									58.644992
693	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	46	68									297.84267
694	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Wrasse, Clown	<i>Halichoeres maculipinna</i>	I		3									14.31794
695	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Reeffish, Purple	<i>Chromis scotti</i>	PL	10										3.0643529
696	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Goby, Neon	<i>Elacatinus oceanops</i>	I	1										0.1417189
697	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H	1										0.435615
698	08-20-2009	WFGB	NW Quadrant	68	(6-9am)	First 5mins	Graysby	<i>Cephalopholis cruentata</i>	P				1	1						259.91752



No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)
717	08-20-2009	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Blenny, Redlip	<i>Ophioblennius macclurei</i>	H		1								3.9112516
718	08-20-2009	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H	1	4								39.725318
719	08-20-2009	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Sergeant Major	<i>Abudefduf saxatilis</i>	I				2						256.89617
720	08-20-2009	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H	1				2			1	0.35	1162.3922
721	08-20-2009	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H				1	4					1553.1172
722	08-20-2009	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	14									4.5762141
723	08-20-2009	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Damselfish, Dusky	<i>Stegastes adustus</i>	H	1									0.519462
724	08-20-2009	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL	38			23						1890.3671
725	08-20-2009	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Chub	<i>Kyphosus incisor</i> / <i>Kyphosus sectatrix</i>	H								1	0.35	991.46828
726	08-20-2009	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Butterflyfish, Reef	<i>Chaetodon sedentarius</i>	I		1								12.341336
727	08-20-2009	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Trunkfish, Smooth	<i>Lactophrys triqueter</i>	I				2						331.20938
728	08-20-2009	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Butterflyfish, Longsnout	<i>Prognathodes aculeatus</i>	I			3							178.94841
729	08-20-2009	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Graysby	<i>Cephalopholis cruentata</i>	P				2						164.00558
730	08-20-2009	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Hawkfish, Redspotted	<i>Amblycirrhitus pinos</i>	I		1								2.5930345
731	08-20-2009	WFGB	NW Quadrant	70	(12-4pm)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	50	2								17.422336
732	08-20-2009	WFGB	NW Quadrant	70	(12-4pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H		1		3						503.25
733	08-20-2009	WFGB	NW Quadrant	70	(12-4pm)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I			1	1						122.81737









No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)
802	08-20-2009	WFGB	SE Quadrant	70	(12-4pm)	First 5mins	Damselfish, Yellowtail	<i>Microspathod on chrysurus</i>	H			1							57.421504
803	08-20-2009	WFGB	SE Quadrant	70	(12-4pm)	First 5mins	Reeffish, Purple	<i>Chromis scotti</i>	PL	30	1								17.085045
804	08-20-2009	WFGB	SE Quadrant	70	(12-4pm)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I		5								59.932065
805	08-20-2009	WFGB	SE Quadrant	70	(12-4pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H		6								62.577144
806	08-20-2009	WFGB	SE Quadrant	70	(12-4pm)	First 5mins	Angelfish, Queen	<i>Holacanthus ciliaris</i>	I						1				503.1468
807	08-20-2009	WFGB	SE Quadrant	70	(12-4pm)	First 5mins	Butterflyfish, Spotfin	<i>Chaetodon ocellatus</i>	I			2							119.29894
808	08-20-2009	WFGB	SE Quadrant	70	(12-4pm)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL	25									5.4853611
809	08-20-2009	WFGB	SE Quadrant	70	(12-4pm)	First 5mins	Durgon, Black	<i>Melichthys niger</i>	H				1						151.76975
810	08-20-2009	WFGB	SE Quadrant	70	(12-4pm)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H					2	1				771.33281
811	08-20-2009	WFGB	SE Quadrant	70	(12-4pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H					1	2				1436.8326
812	08-20-2009	WFGB	SE Quadrant	70	(12-4pm)	First 5mins	Graysby	<i>Cephalopholis cruentata</i>	P			1							29.071138
813	08-20-2009	WFGB	SE Quadrant	70	(12-4pm)	First 5mins	Jack, Black	<i>Caranx lugubris</i>	P							1			493.65378
814	08-20-2009	WFGB	SE Quadrant	70	(12-4pm)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	4	3								22.251646
815	08-20-2009	WFGB	SE Quadrant	70	(12-4pm)	First 5mins	Squirrelfish, Longspine	<i>Holocentrus rufus</i>	I				1						95.17977
816	08-20-2009	WFGB	SE Quadrant	72	(4-7pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H		3								31.288572
817	08-20-2009	WFGB	SE Quadrant	72	(4-7pm)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I		1								11.986413
818	08-20-2009	WFGB	SE Quadrant	72	(4-7pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL				8	10					2412.6444
819	08-20-2009	WFGB	SE Quadrant	72	(4-7pm)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL				6						490.96417





No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
837	08-20-2009	WFGB	SE Quadrant	74	(12-4pm)	First 5mins	Butterflyfish, Spotfin	<i>Chaetodon ocellatus</i>	I			2								119.29894
838	08-20-2009	WFGB	SE Quadrant	74	(12-4pm)	First 5mins	Durgon, Black	<i>Melichthys niger</i>	H							9				12328.322
839	08-20-2009	WFGB	SE Quadrant	74	(12-4pm)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL	25										4.3511467
840	08-20-2009	WFGB	SE Quadrant	74	(12-4pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL				10		20					7293.4731
841	08-20-2009	WFGB	SE Quadrant	74	(12-4pm)	First 5mins	Jack, Bar	<i>Carangoides ruber</i>	P						4					234.56304
842	08-20-2009	WFGB	SE Quadrant	74	(12-4pm)	First 5mins	Blue Runner	<i>Caranx crysos</i>	P								2	0.35		1492.4656
843	08-20-2009	WFGB	SE Quadrant	74	(12-4pm)	First 5mins	Filefish, Orange Spotted	<i>Cantherhines pullus</i>	I			1								44.238569
844	08-20-2009	WFGB	SE Quadrant	74	(12-4pm)	First 5mins	Angelfish, Rock Beauty	<i>Holacanthus tricolor</i>	I					1						313.31516
845	08-20-2009	WFGB	SE Quadrant	74	(12-4pm)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I		6									40.839582
846	08-20-2009	WFGB	SE Quadrant	74	(12-4pm)	First 5mins	Squirrelfish, Longspine	<i>Holocentrus rufus</i>	I				1							95.17977
847	08-20-2009	WFGB	SE Quadrant	74	(12-4pm)	First 5mins	Cowfish, Honeycomb	<i>Acanthostracion polygonius</i>	I									1	0.35	767.4625
848	08-20-2009	WFGB	SE Quadrant	74	(12-4pm)	First 5mins	Chub	<i>Kyphosus incisor</i> / <i>Kyphosus sectatrix</i>	H									2	0.35	1982.9366
849	08-20-2009	WFGB	SE Quadrant	74	(12-4pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H							1				912.47902
850	08-20-2009	WFGB	SE Quadrant	74	(12-4pm)	First 5mins	Doctorfish	<i>Acanthurus chirurgus</i>	H				6							723.51563
851	08-20-2009	WFGB	SE Quadrant	74	(12-4pm)	First 5mins	Reeffish, Purple	<i>Chromis scotti</i>	PL	5										1.5321764
852	08-20-2009	WFGB	SE Quadrant	74	(12-4pm)	First 5mins	Stingray, Southern	<i>Dasyatis americana</i>	I									1	0.61	7681.0621



No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
870	08-20-2009	WFGB	SE Quadrant	75	(4-7pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H		1				1					574.53674
871	08-20-2009	WFGB	SE Quadrant	75	(4-7pm)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I		3									21.110145
872	08-20-2009	WFGB	SE Quadrant	75	(4-7pm)	First 5mins	Graysby	<i>Cephalopholis cruentata</i>	P			1								29.071138
873	08-20-2009	WFGB	SE Quadrant	75	(4-7pm)	First 5mins	Pudding wife	<i>Halichoeres radiatus</i>	I		1									5.966332
874	08-20-2009	WFGB	SE Quadrant	75	(4-7pm)	First 5mins	Wrasse, Clown	<i>Halichoeres maculipinna</i>	I	3										0.247669
875	08-20-2009	WFGB	SE Quadrant	75	(4-7pm)	First 5mins	Cowfish, Honeycomb	<i>Acanthostraci on polygonius</i>	I						1					372.26406
876	08-20-2009	WFGB	SE Quadrant	75	(4-7pm)	First 5mins	Blenny, Redlip	<i>Ophioblennius macclurei</i>	H	1										0.286579
877	08-20-2009	WFGB	SE Quadrant	75	(4-7pm)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I	1										0.2378367
878	08-20-2009	WFGB	SW Quadrant	66	(4-7pm)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL	43	97									442.46854
879	08-20-2009	WFGB	SW Quadrant	66	(4-7pm)	First 5mins	Reeffish, Purple	<i>Chromis scotti</i>	PL	12										3.6772234
880	08-20-2009	WFGB	SW Quadrant	66	(4-7pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	22	2									28.050242
881	08-20-2009	WFGB	SW Quadrant	66	(4-7pm)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	48	2									17.094929
882	08-20-2009	WFGB	SW Quadrant	66	(4-7pm)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL	14				6	12					4943.0068
883	08-20-2009	WFGB	SW Quadrant	66	(4-7pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H			1	4							713.41406
884	08-20-2009	WFGB	SW Quadrant	66	(4-7pm)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I	2	4		1							118.14261
885	08-20-2009	WFGB	SW Quadrant	66	(4-7pm)	First 5mins	Sunshinefish	<i>Chromis insolata</i>	PL	1	1									6.1349145
886	08-20-2009	WFGB	SW Quadrant	66	(4-7pm)	First 5mins	Chub	<i>Kyphosus incisor</i> / <i>Kyphosus sectatrix</i>	H									1	0.35	991.46828











No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
956	08-20-2009	WFGB	SW Quadrant	70	(4-7pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H		5									52.14762
957	08-20-2009	WFGB	SW Quadrant	70	(4-7pm)	First 5mins	Sunshinewfish	<i>Chromis insolata</i>	PL	2										0.4586137
958	08-20-2009	WFGB	SW Quadrant	70	(4-7pm)	First 5mins	Reeffish, Purple	<i>Chromis scotti</i>	PL	6										1.8386117
959	08-20-2009	WFGB	SW Quadrant	70	(4-7pm)	First 5mins	Wrasse, Clown	<i>Halichoeres maculipinna</i>	I	4	2									9.8755186
960	08-20-2009	WFGB	SW Quadrant	70	(4-7pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H					1	1					875.18595
961	08-20-2009	WFGB	SW Quadrant	70	(4-7pm)	First 5mins	Pudding wife	<i>Halichoeres radiatus</i>	I			1								28.163324
962	08-20-2009	WFGB	SW Quadrant	70	(4-7pm)	First 5mins	Damselfish, Yellowtail	<i>Microspathod on chrysurus</i>	H			3								172.26451
963	08-20-2009	WFGB	SW Quadrant	70	(4-7pm)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H			1	1	1						331.04531
964	08-20-2009	WFGB	SW Quadrant	70	(4-7pm)	First 5mins	Parrotfish, Redband	<i>Sparisoma aurofrenatum</i>	H					1						234.64688
965	08-20-2009	WFGB	SW Quadrant	70	(4-7pm)	First 5mins	Barracuda, Great	<i>Sphyrnaena barracuda</i>	P						1					131.02031
966	08-20-2009	WFGB	SW Quadrant	70	(4-7pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H				1							163.46094
967	08-20-2009	WFGB	SW Quadrant	70	(4-7pm)	First 5mins	Chub	<i>Kyphosus incisor</i> <i>Kyphosus sectatrix</i>	H						1					254.25611
968	08-20-2009	WFGB	SW Quadrant	70	(4-7pm)	First 5mins	Surgeonfish, Ocean	<i>Acanthurus bahianus</i>	H				2							257.40712
969	08-20-2009	WFGB	SW Quadrant	70	(4-7pm)	First 5mins	Durgon, Black	<i>Melichthys niger</i>	H					1						370.75299
970	08-20-2009	WFGB	SW Quadrant	70	(4-7pm)	First 5mins	Triggerfish, Ocean	<i>Canthidermis sufflamen</i>	I						1					451.29219
971	08-20-2009	WFGB	SW Quadrant	70	(12-4pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL					12						2109.6306



No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
989	08-20-2009	WFGB	SW Quadrant	70	(12-4pm)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H		1			2						410.69531
990	08-20-2009	WFGB	SW Quadrant	70	(12-4pm)	First 5mins	Jack, Horse-eye	<i>Caranx latus</i>	P									2	0.35	1618.5696
991	08-20-2009	WFGB	SW Quadrant	70	(12-4pm)	First 5mins	Trunkfish, Smooth	<i>Lactophrys triqueter</i>	I			1								60.351563
992	08-20-2009	WFGB	SW Quadrant	72	(9-12pm)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	1	1									7.3220902
993	08-20-2009	WFGB	SW Quadrant	72	(9-12pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL					19						3340.2485
994	08-20-2009	WFGB	SW Quadrant	72	(9-12pm)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL	22	2			5						896.2614
995	08-20-2009	WFGB	SW Quadrant	72	(9-12pm)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I		33		12							768.18693
996	08-20-2009	WFGB	SW Quadrant	72	(9-12pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H		10									104.29524
997	08-20-2009	WFGB	SW Quadrant	72	(9-12pm)	First 5mins	Sunshinefish	<i>Chromis insolata</i>	PL	3	1	1								33.340298
998	08-20-2009	WFGB	SW Quadrant	72	(9-12pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H				1							163.46094
999	08-20-2009	WFGB	SW Quadrant	72	(9-12pm)	First 5mins	Damselfish, Yellowtail	<i>Microspathod on chrysurus</i>	H		1	2								126.73725
1000	08-20-2009	WFGB	SW Quadrant	72	(9-12pm)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL	8		3								62.33467
1001	08-20-2009	WFGB	SW Quadrant	72	(9-12pm)	First 5mins	Butterflyfish, Reef	<i>Chaetodon sedentarius</i>	I			3								178.19281
1002	08-20-2009	WFGB	SW Quadrant	72	(9-12pm)	First 5mins	Wrasse, Clown	<i>Halichoeres maculipinna</i>	I	3										0.247669
1003	08-20-2009	WFGB	SW Quadrant	72	(9-12pm)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	4		1								22.478487
1004	08-20-2009	WFGB	SW Quadrant	72	(9-12pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H		1			1						326.42932
1005	08-20-2009	WFGB	SW Quadrant	72	(9-12pm)	First 5mins	Snapper, Grey	<i>Lutjanus agemmes</i>	I							1				507.0006
1006	08-20-2009	WFGB	SW Quadrant	72	(9-12pm)	First 5mins	Parrotfish, Princess	<i>Scarus taeniopterus</i>	H						1					368.10469



No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
1025	10-12-2010	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL	6										1.3164867
1026	10-12-2010	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Butterflyfish, Reef	<i>Chaetodon sedentarius</i>	I	2										0.8409442
1027	10-12-2010	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Grouper, Tiger	<i>Mycteroperca tigris</i>	P								1	0.65		4260.0778
1028	10-12-2010	WFGB	NE Quadrant	68	(12-4pm)	First 5mins	Barracuda, Great	<i>Sphyaena barracuda</i>	P								2	0.5		1575
1032	10-12-2010	WFGB	NE Quadrant	77	(9-12pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	2	1	1								63.266594
1033	10-12-2010	WFGB	NE Quadrant	77	(9-12pm)	First 5mins	Wrasse, Yellowhead	<i>Halichoeres garnoti</i>	I	8	2		1							91.775518
1034	10-12-2010	WFGB	NE Quadrant	77	(9-12pm)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	10	2	1								32.697852
1035	10-12-2010	WFGB	NE Quadrant	77	(9-12pm)	First 5mins	Barracuda, Great	<i>Sphyaena barracuda</i>	P							3	1	0.4		1052.0016
1036	10-12-2010	WFGB	NE Quadrant	77	(9-12pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL		2	1	5							450.95046
1037	10-12-2010	WFGB	NE Quadrant	77	(9-12pm)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H	2	1	2								94.333228
1038	10-12-2010	WFGB	NE Quadrant	77	(9-12pm)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I	3	1	1								65.128336
1039	10-12-2010	WFGB	NE Quadrant	77	(9-12pm)	First 5mins	grouper, tiger	<i>Mycteroperca tigris</i>	P		1		1	1						231.64866
1040	10-12-2010	WFGB	NE Quadrant	77	(9-12pm)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL		5									22.421885
1041	10-12-2010	WFGB	NE Quadrant	77	(9-12pm)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I		3									12.803807
1042	10-12-2010	WFGB	NE Quadrant	77	(9-12pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H				2			1				1214.6531
1043	10-12-2010	WFGB	NE Quadrant	77	(9-12pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H				2							326.92188
1044	10-12-2010	WFGB	NE Quadrant	77	(9-12pm)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I		2									14.07343
1045	10-12-2010	WFGB	NE Quadrant	77	(9-12pm)	First 5mins	moray, spotted	<i>Gymnothorax meleagris</i>	P								1	0.35		75.191177





No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
1111	10-12-2010	WFGB	SE Quadrant	72	(9-12pm)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	6										1.7122519
1112	10-12-2010	WFGB	SE Quadrant	72	(9-12pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H		4									51.46875
1113	10-12-2010	WFGB	SE Quadrant	72	(9-12pm)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I	2	3									20.895464
1114	10-12-2010	WFGB	SE Quadrant	72	(9-12pm)	First 5mins	Chub	<i>Kyphosus incisor</i> / <i>Kyphosus sectatrix</i>	H			15								623.91201
1115	10-12-2010	WFGB	SE Quadrant	72	(9-12pm)	First 5mins	Durgon, Black	<i>Melichthys niger</i>	H			1								45.90354
1116	10-12-2010	WFGB	SE Quadrant	72	(9-12pm)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H	1	6									59.370169
1117	10-12-2010	WFGB	SE Quadrant	72	(9-12pm)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL	2										0.4388289
1118	10-12-2010	WFGB	SE Quadrant	72	(9-12pm)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	8										1.325746
1119	10-12-2010	WFGB	SE Quadrant	72	(9-12pm)	First 5mins	Sunshinefish	<i>Chromis insolata</i>	PL	3										0.6879206
1120	10-12-2010	WFGB	SE Quadrant	72	(9-12pm)	First 5mins	Graysby	<i>Cephalopholis cruentata</i>	P		1									6.0217703
1121	10-12-2010	WFGB	SE Quadrant	72	(9-12pm)	First 5mins	Butterflyfish, Longsnout	<i>Prognathodes aculeatus</i>	I	2										0.9792873
1122	10-12-2010	WFGB	SE Quadrant	72	(9-12pm)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I	2										1.0389241
1123	10-12-2010	WFGB	SE Quadrant	72	(9-12pm)	First 5mins	Butterflyfish, Reef	<i>Chaetodon sedentarius</i>	I		1									12.341336
1124	10-12-2010	WFGB	SE Quadrant	72	(9-12pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	2										0.6537449
1125	10-12-2010	WFGB	SE Quadrant	72	(9-12pm)	First 5mins	Doctorfish	<i>Acanthurus chirurgus</i>	H		1									9.4921875
1126	10-12-2010	WFGB	SE Quadrant	72	(9-12pm)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H						1					368.10469
1133	10-12-2010	WFGB	SE Quadrant	82	(9-12pm)	First 5mins	Durgon, Black	<i>Melichthys niger</i>	H							6				8218.8813





No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
1156	10-12-2010	WFGB	SE Quadrant	70	(9-12pm)	First 5mins	Squirrelfish, Longspine	<i>Holocentrus rufus</i>	I			1								34.004703
1157	10-12-2010	WFGB	SE Quadrant	70	(9-12pm)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	4										1.1415013
1158	10-12-2010	WFGB	SE Quadrant	70	(9-12pm)	First 5mins	Parrotfish, Redband	<i>Sparisoma aurofrenatum</i>	H	1	1									9.0125
1159	10-12-2010	WFGB	SE Quadrant	70	(9-12pm)	First 5mins	Snapper, Dog	<i>Lutjanus jocu</i>	P							1				585.39051
1160	10-12-2010	WFGB	SE Quadrant	70	(9-12pm)	First 5mins	Graysby	<i>Cephalopholis cruentata</i>	P			1								29.071138
1162	10-12-2010	WFGB	SW Quadrant	78	(9-12pm)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL			5	10							965.23423
1163	10-12-2010	WFGB	SW Quadrant	78	(9-12pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL					20	10					35892.048
1164	10-12-2010	WFGB	SW Quadrant	78	(9-12pm)	First 5mins	Graysby	<i>Cephalopholis cruentata</i>	P			1								29.071138
1165	10-12-2010	WFGB	SW Quadrant	78	(9-12pm)	First 5mins	Parrotfish, Princess	<i>Scarus taeniopterus</i>	H				1	1						296.475
1166	10-12-2010	WFGB	SW Quadrant	78	(9-12pm)	First 5mins	Barracuda, Great	<i>Sphyaena barracuda</i>	P					2				2	0.4	949.92188
1167	10-12-2010	WFGB	SW Quadrant	78	(9-12pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H			1	2							386.49219
1168	10-12-2010	WFGB	SW Quadrant	78	(9-12pm)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	5	2	1								31.879333
1169	10-12-2010	WFGB	SW Quadrant	78	(9-12pm)	First 5mins	Durgon, Black	<i>Melichthys niger</i>	H						2					1513.026
1170	10-12-2010	WFGB	SW Quadrant	78	(9-12pm)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I		3									21.110145
1171	10-12-2010	WFGB	SW Quadrant	78	(9-12pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	2	1									11.083269
1172	10-12-2010	WFGB	SW Quadrant	78	(9-12pm)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I	1		1								32.614663
1173	10-12-2010	WFGB	SW Quadrant	78	(9-12pm)	First 5mins	grouper, tiger	<i>Mycteroperca tigris</i>	P				1							71.024235
1182	10-12-2012	WFGB	NE Quadrant	76	(9-12pm)	First 5mins	Barracuda, Great	<i>Sphyaena barracuda</i>	P									2	0.6	2721.6

No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)
1183	10-12-2012	WFGB	NE Quadrant	76	(9-12pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL			10							293.92122
1184	10-12-2012	WFGB	NE Quadrant	76	(9-12pm)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H	3									1.3068451
1185	10-12-2012	WFGB	NE Quadrant	76	(9-12pm)	First 5mins	Durgon, Black	<i>Melichthys niger</i>	H				4						607.079
1186	10-12-2012	WFGB	NE Quadrant	76	(9-12pm)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I		2	2							78.366846
1187	10-12-2012	WFGB	NE Quadrant	76	(9-12pm)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	2	4								17.40318
1188	10-12-2012	WFGB	NE Quadrant	76	(9-12pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H			2							119.14063
1189	10-12-2012	WFGB	NE Quadrant	76	(9-12pm)	First 5mins	Chub	<i>Kyphosus incisor</i> / <i>Kyphosus sectatrix</i>	H				7	5					2092.0184
1190	10-12-2012	WFGB	NE Quadrant	76	(9-12pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H				1	1					464.62632
1191	10-12-2012	WFGB	NE Quadrant	76	(9-12pm)	First 5mins	Snapper, Grey	<i>Lutjanus agennes</i>	I							1	2	0.45	3146.6495
1192	10-12-2012	WFGB	NE Quadrant	76	(9-12pm)	First 5mins	Snapper, Dog	<i>Lutjanus jocu</i>	P								1	0.75	8503.8378
1193	10-12-2012	WFGB	NE Quadrant	76	(9-12pm)	First 5mins	Trunkfish, Smooth	<i>Lactophrys triqueter</i>	I			1							60.351563
1194	10-12-2012	WFGB	NE Quadrant	76	(9-12pm)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	2									0.5707506
1195	10-12-2012	WFGB	NE Quadrant	76	(9-12pm)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL		8								35.875016
1196	10-12-2012	WFGB	NE Quadrant	76	(9-12pm)	First 5mins	Grouper, Yellowmouth	<i>Mycteroperca interstitialis</i>	P				1						84.857398
1197	8-17-2010	EFGB	NE Quadrant	70	(4-7pm)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I		5	1							111.5156
1198	8-17-2010	EFGB	NE Quadrant	70	(4-7pm)	First 5mins	Goby, Neon	<i>Elacatinus oceanops</i>	I	1									0.1417189
1199	8-17-2010	EFGB	NE Quadrant	70	(4-7pm)	First 5mins	Barracuda, Great	<i>Sphyræna barracuda</i>	P								5	0.35	1350.5625









No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)
1285	8-17-2010	EFGB	SE Quadrant	59	(12-4pm)	First 5mins	Barracuda, Great	<i>Sphraena barracuda</i>	P								7	0.35	1890.7875
1286	8-17-2010	EFGB	SE Quadrant	59	(12-4pm)	First 5mins	Hind, Rock	<i>Epinephelus adscensionis</i>	I			1							29.882813
1287	8-17-2010	EFGB	SE Quadrant	59	(12-4pm)	First 5mins	Grouper, Tiger	<i>Mycteroperca tigris</i>	P					1			1	0.35	773.0502
1288	8-17-2010	EFGB	SE Quadrant	59	(12-4pm)	First 5mins	Snapper, Grey	<i>Lutjanus agennes</i>	I						1				310.24837
1289	8-17-2010	EFGB	SE Quadrant	59	(12-4pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H			3							178.71094
1290	8-17-2010	EFGB	SE Quadrant	59	(12-4pm)	First 5mins	Parrotfish, Striped	<i>Scarus iseri</i>	H	2	1				1				339.90206
1291	8-17-2010	EFGB	SE Quadrant	59	(12-4pm)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL			2	2						222.43897
1292	8-17-2010	EFGB	SE Quadrant	59	(12-4pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	2	1								11.083269
1293	8-17-2010	EFGB	SE Quadrant	59	(12-4pm)	First 5mins	Angelfish, Rock Beauty	<i>Holacanthus tricolor</i>	I				1						152.77297
1294	8-17-2010	EFGB	SE Quadrant	59	(12-4pm)	First 5mins	Butterflyfish, Reef	<i>Chaetodon sedentarius</i>	I			3							178.19281
1295	8-17-2010	EFGB	SE Quadrant	59	(12-4pm)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H	1	2	2			1				452.45625
1296	8-17-2010	EFGB	SE Quadrant	59	(12-4pm)	First 5mins	Chub	<i>Kyphosus incisor</i> <i>Kyphosus sectatrix</i>	H						2				943.46098
1297	8-17-2010	EFGB	SE Quadrant	59	(12-4pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL			2	2						222.43897
1298	8-17-2010	EFGB	SE Quadrant	59	(12-4pm)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H	2	2								20.516082
1299	8-17-2010	EFGB	SE Quadrant	59	(12-4pm)	First 5mins	Durgon, Black	<i>Melichthys niger</i>	H							2			2739.6271
1314	8-17-2010	EFGB	SE Quadrant	59	(4-7pm)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H	1				2	1		2	0.4	3037.2094
1315	8-17-2010	EFGB	SE Quadrant	59	(4-7pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H							1			912.47902









No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)
1391	8-18-2010	EFGB	NE Quadrant	70	(6-9am)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	1	3								21.39552
1392	8-18-2010	EFGB	NE Quadrant	70	(6-9am)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H		2	2	3	2					1330.0859
1393	8-18-2010	EFGB	NE Quadrant	70	(6-9am)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	8	5	3	2						211.26465
1394	8-18-2010	EFGB	NE Quadrant	70	(6-9am)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	1	5								52.474493
1395	8-18-2010	EFGB	NE Quadrant	70	(6-9am)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL			20	30						3042.6633
1396	8-18-2010	EFGB	NE Quadrant	70	(6-9am)	First 5mins	Jack, Bar	<i>Carangoides ruber</i>	P							1			92.804457
1397	8-18-2010	EFGB	NE Quadrant	70	(6-9am)	First 5mins	Parrotfish, Princess	<i>Scarus taeniopterus</i>	H					2		1			1010.8359
1398	8-18-2010	EFGB	NE Quadrant	70	(6-9am)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H		1		2	1		1	1	0.35	2672.7514
1399	8-18-2010	EFGB	NE Quadrant	70	(6-9am)	First 5mins	chub	<i>Kyphosus incisor</i> / <i>Kyphosus sectatrix</i>	H							1			789.13263
1404	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H		2								20.859048
1405	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	Barracuda, Great	<i>Sphyræna barracuda</i>	P							3	1	0.35	918.91406
1406	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	Goby, Neon	<i>Elacatinus oceanops</i>	I	2	2								9.179282
1407	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I	1	2								24.492288
1408	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	1	2								14.358805
1409	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	snapper, grey	<i>Lutjanus agennes</i>	I							1			507.0006
1410	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H				2	3					1369.1641
1411	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I		1		1						97.247141

No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
1412	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	Durgon, Black	<i>Melichthys niger</i>	H					1					370.75299	
1413	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	Butterflyfish, Longsnout	<i>Prognathodes aculeatus</i>	I			1							59.649471	
1414	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL		1			10 0	3	1			19096.009	
1415	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H		2						1		622.54219	
1416	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H				1				2		1976.0451	
1417	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	2	4	5	1						188.61562	
1418	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H		2								19.644851	
1419	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	chub	<i>Kyphosus incisor</i> / <i>Kyphosus sectatrix</i>	H								20	1	0.35	16774.121
1420	8-18-2010	EFGB	NE Quadrant	75	(6-9am)	First 5mins	Parrotfish, Princess	<i>Scarus taeniopterus</i>	H		2			1			2	1	0.35	2190.6516
1426	8-18-2010	EFGB	NE Quadrant	68	(6-9am)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	5	3								14.674232	
1427	8-18-2010	EFGB	NE Quadrant	68	(6-9am)	First 5mins	Parrotfish, Redband	<i>Sparisoma aurofrenatum</i>	H			2							80.46875	
1428	8-18-2010	EFGB	NE Quadrant	68	(6-9am)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I			1	1						122.81737	
1429	8-18-2010	EFGB	NE Quadrant	68	(6-9am)	First 5mins	Durgon, Black	<i>Melichthys niger</i>	H					1					370.75299	
1430	8-18-2010	EFGB	NE Quadrant	68	(6-9am)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I		8								95.891304	
1431	8-18-2010	EFGB	NE Quadrant	68	(6-9am)	First 5mins	Surgeonfish, Ocean	<i>Acanthurus bahianus</i>	H					3					837.29168	
1432	8-18-2010	EFGB	NE Quadrant	68	(6-9am)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I		3								21.110145	
1433	8-18-2010	EFGB	NE Quadrant	68	(6-9am)	First 5mins	Squirrelfish, Longspine	<i>Holocentrus rufus</i>	I					1					205.31354	









No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
1495	8-18-2010	EFGB	NE Quadrant	65	(4-7pm)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	4	61									261.00696
1496	8-18-2010	EFGB	NE Quadrant	65	(4-7pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	3	2									21.839665
1497	8-18-2010	EFGB	NE Quadrant	65	(4-7pm)	First 5mins	Reefish, Purple	<i>Chromis scotti</i>	PL	2	4									32.180816
1498	8-18-2010	EFGB	NE Quadrant	65	(4-7pm)	First 5mins	Surgeonfish, Ocean	<i>Acanthurus bahianus</i>	H				1							128.70356
1499	8-18-2010	EFGB	NE Quadrant	65	(4-7pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H				1							163.46094
1500	8-18-2010	EFGB	NE Quadrant	65	(4-7pm)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	5	5									23.911374
1501	8-18-2010	EFGB	NE Quadrant	65	(4-7pm)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL			3								88.176365
1502	8-18-2010	EFGB	NE Quadrant	65	(4-7pm)	First 5mins	Graysby	<i>Cephalopholis cruentata</i>	P			1	1							111.07393
1503	8-18-2010	EFGB	NE Quadrant	65	(4-7pm)	First 5mins	Parrotfish, Redband	<i>Sparisoma aurofrenatum</i>	H			2								80.46875
1504	8-18-2010	EFGB	NE Quadrant	65	(4-7pm)	First 5mins	Barracuda, Great	<i>Sphyaena barracuda</i>	P							1	1	0.35		619.46719
1505	8-18-2010	EFGB	NE Quadrant	65	(4-7pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL					7						1230.6179
1506	8-18-2010	EFGB	NE Quadrant	65	(4-7pm)	First 5mins	Damselfish, Yellowtail	<i>Microspathod on chrysurus</i>	H			1								57.421504
1507	8-18-2010	EFGB	NE Quadrant	65	(4-7pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H						1					561.64668
1508	8-18-2010	EFGB	NE Quadrant	65	(4-7pm)	First 5mins	Jack, Bar	<i>Carangoides ruber</i>	P				2							33.869744
1509	8-18-2010	EFGB	NE Quadrant	65	(4-7pm)	First 5mins	Trunkfish, Smooth	<i>Lactophrys triquetter</i>	I			1								60.351563
1517	8-18-2010	EFGB	NW Quadrant	63	(9-12pm)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	20	45									195.37147
1518	8-18-2010	EFGB	NW Quadrant	63	(9-12pm)	First 5mins	Barracuda, Great	<i>Sphyaena barracuda</i>	P							1				131.02031



















No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
1689	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Filefish, Orange Spotted	<i>Cantherhines pullus</i>	I			1								44.238569
1694	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Wrasse, Creole	<i>Clepticus parrae</i>	PL	12										2.6329733
1695	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Trunkfish, Smooth	<i>Lactophrys triqueter</i>	I				1							165.60469
1696	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I		3		2							201.30088
1697	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	5										1.4268766
1698	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	25	32									140.7169
1699	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	12	4	4								107.73342
1700	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Graysby	<i>Cephalopholis cruentata</i>	P				1							82.002791
1701	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H	3	7									70.063825
1702	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	7										2.288107
1703	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Barracuda, Great	<i>Sphyrnaena barracuda</i>	P									1	0.55	1048.1625
1704	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL	1	3									13.627177
1705	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Doctorfish	<i>Acanthurus chirurgus</i>	H			2								87.890625
1706	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Butterflyfish, Reef	<i>Chaetodon sedentarius</i>	I			2								118.79521
1707	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Parrotfish, Redband	<i>Sparisoma aurofrenatum</i>	H	2										0.64375
1708	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Pudding wife	<i>Halichoeres radiatus</i>	I	1										0.2119401
1709	8-18-2010	EFGB	SW Quadrant	60	(9-12pm)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H	2	7		1					1	0.45	1760.5969







No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
1793	8-18-2010	EFGB	SW Quadrant	55	(12-4pm)	First 5mins	Grouper, Yellowmouth	<i>Mycteroperca interstitialis</i>	P				1							84.857398
1794	8-18-2010	EFGB	SW Quadrant	55	(12-4pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H						1					561.64668
1795	8-18-2010	EFGB	SW Quadrant	55	(12-4pm)	First 5mins	Grouper, Tiger	<i>Mycteroperca tigris</i>	P				1							71.024235
1796	8-18-2010	EFGB	SW Quadrant	55	(12-4pm)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H			1								59.570313
1797	8-18-2010	EFGB	SW Quadrant	55	(12-4pm)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I		1									6.806597
1798	8-18-2010	EFGB	SW Quadrant	55	(12-4pm)	First 5mins	Damselfish, Yellowtail	<i>Microspathod on chrysurus</i>	H		1	1								69.315744
1799	8-18-2010	EFGB	SW Quadrant	55	(12-4pm)	First 5mins	Chub	<i>Kyphosus incisor</i> / <i>Kyphosus sectatrix</i>	H					1						254.25611
1802	8-19-2010	WFGB	NE Quadrant	65	(6-9am)	First 5mins	Barracuda, Great	<i>Sphyrnaena barracuda</i>	P									9	0.7	19448.1
1803	8-19-2010	WFGB	NE Quadrant	65	(6-9am)	First 5mins	Damselfish, Yellowtail	<i>Microspathod on chrysurus</i>	H			1	1							219.39396
1804	8-19-2010	WFGB	NE Quadrant	65	(6-9am)	First 5mins	Sergeant Major	<i>Abudefduf saxatilis</i>	I			1								44.958122
1805	8-19-2010	WFGB	NE Quadrant	65	(6-9am)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	15	2									11.6927
1806	8-19-2010	WFGB	NE Quadrant	65	(6-9am)	First 5mins	Surgeonfish, Ocean	<i>Acanthurus bahianus</i>	H				1							128.70356
1807	8-19-2010	WFGB	NE Quadrant	65	(6-9am)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	70										11.600277
1808	8-19-2010	WFGB	NE Quadrant	65	(6-9am)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H	1	2	3								145.53982
1809	8-19-2010	WFGB	NE Quadrant	65	(6-9am)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	1	2									14.358805
1810	8-19-2010	WFGB	NE Quadrant	65	(6-9am)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I		1	1		1						233.97996







No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
1862	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I		3	6								345.46046
1863	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I		6									42.220289
1864	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL					100						17580.255
1865	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	6	2	1								32.043037
1866	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H					2		1				1010.8359
1867	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Angelfish, French	<i>Pomacanthus paru</i>	I							1				1080.5464
1868	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Jack, Bar	<i>Carangoides ruber</i>	P			4								26.870891
1869	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Graysby	<i>Cephalopholis cruentata</i>	P					2	1					686.05352
1870	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Butterflyfish, Reef	<i>Chaetodon sedentarius</i>	I			2								118.79521
1871	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I		1	1	1							129.62397
1872	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Butterflyfish, Banded	<i>Chaetodon striatus</i>	I			1								61.751913
1873	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Butterflyfish, Longsnout	<i>Prognathodes aculeatus</i>	I		1									12.990023
1874	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H						2					1268.6094
1875	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Blenny, Redlip	<i>Ophioblennius macclurei</i>	H		2									7.8225032
1876	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Jack, Horse-eye	<i>Caranx latus</i>	P									1	0.35	809.28481
1877	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	chub	<i>Kyphosus incisor</i> <i>Kyphosus sectatrix</i>	H						1					471.73049
1878	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Grouper, Yellowmouth	<i>Mycteroperca interstitialis</i>	P									1	0.35	651.20526

No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
1879	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Wrasse, Yellowhead	<i>Halichoeres garnoti</i>	I		1									4.670196
1880	8-19-2010	WFGB	NE Quadrant	72	(6-9am)	First 5mins	Surgeonfish, Ocean	<i>Acanthurus bahianus</i>	H						2					1035.6382
1885	8-19-2010	WFGB	NE Quadrant	71	(6-9am)	first 5mins	Reeffish, Purple	<i>Chromis scotti</i>	PL	2	2									16.396843
1886	8-19-2010	WFGB	NE Quadrant	71	(6-9am)	first 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	7	11									51.950207
1887	8-19-2010	WFGB	NE Quadrant	71	(6-9am)	first 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	30	75									325.06673
1888	8-19-2010	WFGB	NE Quadrant	71	(6-9am)	first 5mins	Sunshinefish	<i>Chromis insolata</i>	PL	1	1									6.1349145
1889	8-19-2010	WFGB	NE Quadrant	71	(6-9am)	first 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I			1	2							213.25791
1890	8-19-2010	WFGB	NE Quadrant	71	(6-9am)	first 5mins	Damselfish, Three-spot	<i>Stegastes planifrons</i>	I	1	3									36.478701
1891	8-19-2010	WFGB	NE Quadrant	71	(6-9am)	first 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	1	2									21.185921
1892	8-19-2010	WFGB	NE Quadrant	71	(6-9am)	first 5mins	Creolefish	<i>Paranthias furcifer</i>	PL					5						879.01275
1893	8-19-2010	WFGB	NE Quadrant	71	(6-9am)	first 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H		1									9.8224257
1894	8-19-2010	WFGB	NE Quadrant	71	(6-9am)	first 5mins	Surgeonfish, Ocean	<i>Acanthurus bahianus</i>	H					2						558.19446
1895	8-19-2010	WFGB	NE Quadrant	71	(6-9am)	first 5mins	Wrasse, Yellowhead	<i>Halichoeres garnoti</i>	I		1									4.670196
1896	8-19-2010	WFGB	NE Quadrant	71	(6-9am)	first 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H					2						694.82813
1897	8-19-2010	WFGB	NE Quadrant	71	(6-9am)	first 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL		9									40.359393
1898	8-19-2010	WFGB	NE Quadrant	71	(6-9am)	first 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I		3									21.110145
1899	8-19-2010	WFGB	NE Quadrant	71	(6-9am)	first 5mins	Jack, Horse-eye	<i>Caranx latus</i>	P							1				649.40089
1900	8-19-2010	WFGB	NE Quadrant	71	(6-9am)	first 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H					1	2					937.82344





No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
1940	8-19-2010	WFGB	NE Quadrant	70	(6-9am)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H			2			1		1	0.35	1196.1328	
1941	8-19-2010	WFGB	NE Quadrant	70	(6-9am)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	3		2							44.138454	
1942	8-19-2010	WFGB	NE Quadrant	70	(6-9am)	First 5mins	Parrotfish, Princess	<i>Scarus taeniopterus</i>	H							2			1215.2156	
1943	8-19-2010	WFGB	NE Quadrant	70	(6-9am)	First 5mins	Sergeant Major	<i>Abudefduf saxatilis</i>	I			3							134.87437	
1944	8-19-2010	WFGB	NE Quadrant	70	(6-9am)	First 5mins	Barracuda, Great	<i>Sphyrna barracuda</i>	P						1	3	1	0.35	1049.9344	
1945	8-19-2010	WFGB	NE Quadrant	70	(6-9am)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL			5	20	10	0				19363.763	
1946	8-19-2010	WFGB	NE Quadrant	70	(6-9am)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	5	2								22.49341	
1957	8-19-2010	WFGB	NW Quadrant	66	(12-4pm)	First 5mins	Reeffish, Purple	<i>Chromis scotti</i>	PL	4	5								40.685673	
1958	8-19-2010	WFGB	NW Quadrant	66	(12-4pm)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL		4								24.843065	
1959	8-19-2010	WFGB	NW Quadrant	66	(12-4pm)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H	1	1	1						1	0.4	1738.2307
1960	8-19-2010	WFGB	NW Quadrant	66	(12-4pm)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	7	1								5.7644981	
1961	8-19-2010	WFGB	NW Quadrant	66	(12-4pm)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H	3	4								40.596548	
1962	8-19-2010	WFGB	NW Quadrant	66	(12-4pm)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	60	9								48.354517	
1963	8-19-2010	WFGB	NW Quadrant	66	(12-4pm)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	7	4								30.144487	
1964	8-19-2010	WFGB	NW Quadrant	66	(12-4pm)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL	1	6								27.080308	
1965	8-19-2010	WFGB	NW Quadrant	66	(12-4pm)	First 5mins	Barracuda, Great	<i>Sphyrna barracuda</i>	P								2	0.6	2721.6	
1966	8-19-2010	WFGB	NW Quadrant	66	(12-4pm)	First 5mins	Durgon, Black	<i>Melichthys niger</i>	H						1				756.51299	



















No.	Date	Bank	Station	Depth (ft)	Time	Time Bracket	Fish ID	Latin Name	Trophic	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Size	Biomass (g)	
2136	8-20-2010	WFGB	NW Quadrant	71	(6-9am)	First 5mins	Hogfish, Spanish	<i>Bodianus rufus</i>	I			1	1							122.81737
2137	8-20-2010	WFGB	NW Quadrant	71	(6-9am)	First 5mins	Hawkfish, Redspotted	<i>Amblycirrhitus pinos</i>	I		1									2.5930345
2138	8-20-2010	WFGB	NW Quadrant	71	(6-9am)	First 5mins	Parrotfish, Queen	<i>Scarus vetula</i>	H						1	1				975.7125
2139	8-20-2010	WFGB	NW Quadrant	71	(6-9am)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL		4									17.937508
2140	8-20-2010	WFGB	NW Quadrant	71	(6-9am)	First 5mins	Butterflyfish, Reef	<i>Chaetodon sedentarius</i>	I			2								118.79521
2141	8-20-2010	WFGB	NW Quadrant	71	(6-9am)	First 5mins	Snapper, Grey	<i>Lutjanus agennes</i>	I						1					310.24837
2142	8-20-2010	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Creolefish	<i>Paranthias furcifer</i>	PL				21							1718.3746
2143	8-20-2010	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Damselfish, Coco	<i>Stegastes variabilis</i>	H		2									19.644851
2144	8-20-2010	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Damselfish, Bi-color	<i>Stegastes partitus</i>	H	4	1									11.737014
2145	8-20-2010	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Graysby	<i>Cephalopholis cruentata</i>	P				1							82.002791
2146	8-20-2010	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Chromis, Brown	<i>Chromis multilineata</i>	I	7	23									99.322551
2147	8-20-2010	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Puffer, Sharpnose	<i>Canthigaster rostrata</i>	I	4										1.1415013
2148	8-20-2010	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Wrasse, Bluehead	<i>Thalassoma lucasanum</i>	I	9	1									6.0919059
2149	8-20-2010	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Damselfish, Yellowtail	<i>Microspathodon chrysurus</i>	H				1							161.97246
2150	8-20-2010	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Chromis, Blue	<i>Chromis cyanea</i>	PL		3									13.453131
2151	8-20-2010	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Sergeant Major	<i>Abudefduf saxatilis</i>	I		1									9.1335595
2152	8-20-2010	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Tang, Blue	<i>Acanthurus coeruleus</i>	H			3								178.71094
2153	8-20-2010	WFGB	NW Quadrant	69	(6-9am)	First 5mins	Parrotfish, Stoplight	<i>Sparisoma viride</i>	H							1	1	0.45		3260.9439









### **The Department of the Interior Mission**

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island communities.

### **The Bureau of Ocean Energy Management Mission**

The Bureau of Ocean Energy Management (BOEM) works to manage the exploration and development of the nation's offshore resources in a way that appropriately balances economic development, energy independence, and environmental protection through oil and gas leases, renewable energy development and environmental reviews and studies.