Office of National Marine Sanctuaries
National Oceanic and Atmospheric Administration

NATIONAL MARINE SANCTUARIES CONSERVATION SCIENCE SERIES

STETSON BANK LONG-TERM MONITORING: 2015-2018 SYNTHESIS REPORT APPENDIX

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National Marine Sanctuaries Conservation Science Series ONMS-21-01

Appendix 1. Bank crest repetitive ghrostation percent cover data, 2015–2018.

Station (PIN)	Year	Pseudosiphonia strigosa (Scleractinian)	Madracis decactis (Scleractinian)	Madracis brueggemanni (Scleractinian)	Meandrastrea severmsai (Scleractinian)	Stephanocoenia intersepta (Scleractinian)	Siderastrea radians (Scleractinian)	Millepora alcicornis (Hydrozoa)	Agelas clathrodes (Porifera)	Acrolochina cassa (Porifera)	Callyspongia vaginalis (Porifera)	Chondrilla nucula (Porifera)	Ectoplasia ferox (Porifera)	Geodia gibberosa (Porifera)	Iotrochota birotulata (Porifera)	Iotrochota baldwini (Porifera)	Mycale laxissima (Porifera)	Neofibularia nolitangere (Porifera)	Niphates erecta (Porifera)	Pachastrella monilifera (Porifera)	Unknown species 1 (Porifera)	Unknown species 4 (Porifera)	Unknown species 6 (Porifera)	Encrusting sponge (Porifera)	Spirastrella cunctatrix (Porifera)	Unknown encrusting sponge 1 (Porifera)	Unknown encrusting sponge I (Porifera)	Unknown encrusting sponge II (Porifera)	Unknown encrusting sponge III (Porifera)	Unknown Sponge 2 (Porifera)	Aplysina species 1 (Porifera)	Unknown Sponge III (Porifera)	Unknown Sponge V (Porifera)	Algae (Macroalgae)	Dictyota sp. (Macroalgae)	Halimeda species (Macroalgae)	Turf Algae Matrix (Macroalgae)	Frenemyn (Other Biota)	Fish (Other Biota)	Invertebrate (Other Biota)	Lichen (Other Biota)	Bare Substrate (Colonizable Substrate)	Crustose Coralline Algae (Colonizable Substrate)	Fine Turf Algae Matrix (Colonizable Substrate)	Substrate Rubble (Rubble)
A	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.70	0.00	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.10	3.80	0.00	0.00	0.00	0.00	3.80	3.80	0.00	50.00	3.80
B	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.60	10.70	0.00	0.00	0.00	3.60	0.00	3.60	0.00	25.00	0.00
1	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.30	13.80	0.00	0.00	0.00	3.50	0.00	3.50	0.00	21.00	0.00
10	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50	3.50	0.00	0.00	37.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.30	0.00	0.00	0.00	0.00	0.00	10.30	37.90	0.00	34.50	0.00
13	2015	0.00	17.90	0.00	0.00	0.00	7.10	3.60	0.00	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.90	0.00	0.00	7.10	0.00	3.60	0.00	25.00	7.10	3.60	0.00
14	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00	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	7.40	3.70	0.00	0.00	0.00	7.40	0.00	7.40	0.00	40.70	3.70
16	2015	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.00	23.30	0.00	0.00	0.00	0.00	0.00	3.30	0.00	20.00	0.00
17	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	62.10	0.00	24.10	3.50
18	2015	0.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00	3.30	0.00	6.70	0.00	0.00	0.00	0.00	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.70	3.30	0.00	16.70	0.00	0.00	0.00	0.00	6.70	23.30	0.00
19	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50	0.00	17.20	0.00	0.00	0.00	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.00	10.30	0.00	0.00	0.00	3.50	3.50	3.50	0.00	27.60	0.00
20	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	0.00	0.00	17.20	0.00	37.90	10.30
21	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.70	0.00	0.00	0.00	0.00	0.00	0.00	10.30	0.00	58.60	0.00
22	2015	0.00	0.00	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	6.70	13.30	0.00	0.00	6.70	13.30	30.00	0.00
23	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.40	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.20	7.40	0.00	3.70	0.00	3.70	0.00	29.60	0.00	7.40	0.00
24	2015	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.80	0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	48.30	20.70
25	2015	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.70	0.00	0.00	3.50	0.00	0.00	0.00	27.60	0.00	24.10	0.00
26	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.70	13.30	0.00	0.00	0.00	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.30	0.00	0.00	0.00	0.00	0.00	0.00	23.30	0.00	40.00	0.00
27	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.90	3.50	0.00	3.50	0.00	0.00	0.00	17.20	0.00	27.60	6.90
28	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	3.30	0.00	3.30	3.30	0.00	0.00	6.70	0.00	50.00	6.70
31	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.50	0.00	0.00	16.70	0.00	0.00	0.00	0.00	41.70	25.00	0.00
32	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.70	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00	6.70	0.00	0.00	0.00	0.00	0.00	13.30	0.00	30.00	0.00
33	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.90	0.00	0.00	0.00	0.00	0.00	3.60	10.70	0.00	60.70	0.00
34	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	13.30	0.00	73.30	6.70
35	2015	0.00	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.90	0.00	26.90	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.10	0.00	0.00	15.40	0.00	0.00	0.00	0.00	3.90	7.70	0.00
36	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.90	3.50	0.00	0.00	0.00	0.00	0.00	6.90	0.00	79.30	3.50
37	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.30	0.00	6.70	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	0.00	40.00	6.70	0.00	16.70	0.00	6.70	0.00	16.70	0.00	33.30	0.00
39	2015	0.00	0.00	0.00	0.00	0.00	3.90	0.00	0.00	0.00	0.00	0.00	3.90	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.40	0.00	3.90	0.00	0.00	7.70	0.00	7.70	34.60	0.00	19.20	0.00
4	2015	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00	0.00	3.60	0.00	0.00	0.00	17.90	0.00	50.00	0.00
40	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	21.40	0.00	53.60	0.00
41	2015	10.70	0.00	0.00	0.00	0.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.60	0.00	0.00	0.00	7.10	0.00	10.70	0.00
45	2015	21.40	0.00	0.00	0.00	0.00	10.70	3.60	0.00	0.00	0.00	0.00	0.00	0.00	10.70	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	0.00	0.00	0.00	28.60	0.00	0.00	3.60	0.00	0.00	0.00	10.70	0.00	10.70	0.00
48	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.40	0.00	0.00	3.60	0.00	0.00	0.00	10.70	0.00	28.60	0.00
49	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.90	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.70	3.50	0.00	0.00	0.00	0.00	0.00	27.60	0.00	24.10	10.30
50	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.10	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	0.00	0.00	0.00	0.00	0.00	15.40	0.00	0.00	0.00	0.00	0.00	0.00	35.70	3.60	39.30	3.60
51	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.30	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00	57.10	0.00
52	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.70	10.70	0.00	10.70	0.00	0.00	0.00	7.10	0.00	21.40	0.00
53	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.30	0.00	0.00	3.30	0.00	0.00	0.00	3.30	0.00	53.30	0.00
54	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.80	0.00
55	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.10	0.00
56	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.70	0.00
57	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.90	3.50	0.00	3.50	0.00	0.00	0.00	17.20	0.00	27.60	6.90
58	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	3.30	0.00	3.30	3.30	0.00	0.00	6.70	0.00	50.00	6.70
59	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.10	0.00
60	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.20	0.00
61	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.70	6.70	0.00	6.70	0.00	0.00	0.00	0.00	0.00	53.30	0.00
62	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.10	0.00	0.00	0.00	0.00	0.00	0.00	9.10	0.00	66.80	0.00
63	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.00	0.00
64	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.30	0.00	0.00	0.00	0.00	0.00	0.00	3.60	0.00	82.10	0.00
65	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.00	0.00
66	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	40.00	20.00
67	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.10	0.00	0.00	0.00	0.00	7.70	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	23.10	0.00	0.00	0.00	15.40	0.00	23.10	0.00
68	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.60	0.00	0.00	14.30	0.00	0.00	0.00	0.00	0.00	57.10	0.00
69	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.20	0.00
70	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	40.00	20.00
71	2015	0.00	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.10	0.00

Appendix 2. Bank crest repetitive photostation qualitative comparisons, 2015–2018.

Station	2015–2016	2016–2017	2017–2018
Pin01	Complete loss of 4 colonies of IrSt, Wasting of one colony of IrSt, Wasting of one colony of GeGi, Urchin count=1	Complete loss of 1 colony of GeGi, Expansion of 1 colony of ArCr, Increased Turf Algae, Urchin count=1, Sponge loss count=1	No apparent change, Urchin count=2, Sponge loss count=0
Pin04	Algal growth over one colony of IrSt, Wasting of one colony of IrSt, Loss of once colony of GeGi, Reduction in SpCu, Urchin count=3	Complete loss of 2 colonies of IrSt, Urchin count=2, Sponge loss count=2	AgCl overgrown with algae, Urchin count=3, Sponge loss count=0
Pin05	Expansion of one colony of NeNo, Urchin count=1	Complete loss of 2 colonies of IrFe, Expansion of one colony of NeNo, Urchin count=1, Sponge loss count=2	Expansion of NeNo 1 colony, IrFe 2 colonies overgrown by NeNo, GeGi 1 colony overgrown by NeNo, Urchin count=0, Sponge loss count=0
Pin08	Recovery of one colony of AgCl, Expansion in SpCu, Complete loss of one colony of IrFe, Urchin count=3	Expansion of SpCu, Increased Turf Algae, Urchin count=2, Sponge loss count=0	AgCl overgrown with algae, NeNo more robust 1 colony, Urchin count=1, Sponge loss count=0
Pin10	Complete loss of three colonies of IrSt, Less Dictyoda sp., Urchin count=0	Less Dictyoda sp., Urchin count=0, Sponge loss count=0	Complete Loss 1 colony AgCl, Complete Loss 1 colony NiEr , Expansion of 5 colonies NiEr, Urchin count=0, Sponge loss count=2
Pin13	Algal growth over one colony of IrSt, Complete loss of two colonies of IrFe, Urchin count=16	Increase in unk Encrusting sponge III, Increased Turf Algae, Urchin count=5, Sponge loss count=0	No Algae, Dictyota 1 clump absent, Urchin count=6, Sponge loss count=0
Pin15	Recovery of bleached MaDe colony, Expansion in MiAl, Reduction in SpCu, Urchin count=6	40% Reduction in MiAl, Increased Turf Algae, Algal overgrowth of 10% MaDe, Urchin count=1, Sponge loss count=0	Expansion 2 colonies IrFe, Urchin count=1, Sponge loss count=0
Pin16	Algal growth over one colony of IrSt, Recovery of wasting IrSt, Urchin count=4	Wasting of 2 colonies of IrSt, Complete loss of 1 colony of IrSt, Less Dictyoda sp., Urchin count=1, Sponge loss count=1	Expansion 2 colonies IrFe, Reduction 1 colony IrFe, Complete loss 1 recruit PsSt, Urchin count=6, Sponge loss count=0
Pin17	Expansion in MiAl, Urchin count=0	Less Dictyoda sp., Urchin count=0, Sponge loss count=0	Expansion 1 colony Sidastrea, Increased algae on 2 AgCl, Urchin count=0, Sponge loss count=0
Pin18	No apparent change, Urchin count=0	Increase in green turf algae, Urchin count=0, Sponge loss count=0	Decrease in turf algae, Complete Loss 2 SiRa, Urchin count=0, Sponge loss count=0
Pin19	Reduction of one colony of ArCr, Urchin count=1	Expansion of 1 colony of ArCr, Reduction of 1 colony of NeNo, Urchin count=2, Sponge loss count=0	Expansion of NeNo 2 colonies, Expansion of IrSt 2 colonies, Expansion of 2 colonies MaDe, Urchin count=0, Sponge loss count=0
Pin20	Expasion of two colonies of IrSt, Expasion of one colony of GeGi, Urchin count=8	Wasting of 1 colony of IrSt, Complete loss of 1 colony of IrSt, Complete loss of 1 colony of IrFe, Increased Turf Algae, Urchin count=0, Sponge loss count=2	Complete loss 1 colony IrSt, 50% Loss of encrusting red sponge, Complete loss 1 colony IrFe, Urchin count=2, Sponge loss count=2
Pin21	No apparent change, Urchin count=7	Complete loss of 1 colonies of IrSt, Increased Turf Algae, Urchin count=3, Sponge loss count=1	Decrease in turf algae, Decrease in macroalgae, Reduction in algae covering IrSt, Decrease in red encrusting sponge, Urchin count=2, Sponge loss count=0
Pin22	Wasting of one colony of IrSt, Urchin count=4	Increased Turf Algae, Urchin count=7, Sponge loss count=0	Decrease in red encrusting sponge, Urchin count=6, Sponge loss count=0
Pin23	No apparent change, Urchin count=14	Expansion of 1 colony of IrFe, Urchin count=5, Sponge loss count=0	Reduction 2 colonies IrFe, Expansion of IrFe 3 colonies, Expansion of 1 colony Irst, Urchin count=3, Sponge loss count=0
Pin24	No apparent change, Urchin count=2	Reduction in 1 colony of IrSt, Expansion of 1 colony of IrFe, Urchin count=5, Sponge loss count=0	Reduction in turf algae, Expansion of 3 colonies IrSt, Urchin count=1, Sponge loss count=0
Pin25	No apparent change, Urchin count=1	Expansion of 1 colony of IrFe, Urchin count=0, Sponge loss count=0	Reduction in 2 colonies MaDe, Expansion of 1 colony MaDe, Reduction in 1 colony IrFe, Complete Loss of 1 colny SiRa, Urchin count=2, Sponge loss count=0
Pin26	Expasion of two colonies of AgCl, Recovery of wasting AgCl, Urchin count=2	Complete loss of 1 colony of IrSt, Expansion of 1 colony of NeNo, Urchin count=3, Sponge loss count=1	Reduction in 3 colonies AgCl, Expansion of 2 colonies NeNo, Expansion of 2 colonies MaDe, Expansion 1 colony IrSt, Urchin count=5, Sponge loss count=0
Pin27	Complete loss of wasting IrSt, Urchin count=5	Wasting of 1 colony of IrSt, Urchin count=3, Sponge loss count=0	Reduction 2 colonies IrSt, Reduction 50% Red Encrusting Sponge, Urchin count=6, Sponge loss count=0
Pin28	Wasting of one colony of IrSt, Urchin count=3	Wasting of 1 colony of IrSt, Complete loss of 1 colony of IrSt, Increased Turf Algae, Urchin count=2, Sponge loss count=1	Reduction 1 colony MiAl, Urchin count=5, Sponge loss count=0
Pin31	Less Dictyoda sp., Complete loss of one colony of NiEr, Urchin count=3	25% Reduction of MiAl, Wasting of 1 colony of IrSt, Increased Turf Algae, Urchin count=0, Sponge loss count=0	Reduction 1 colony IrSt, Expansion 1 colony IrFe, Reduction 1 colony MiAl, Reduction 75% white encrusting sponge, Urchin count=9, Sponge loss count=0
Pin32	Wastingof one colony of IrSt, Urchin count=2	Complete loss 4 (all) colonies of IrSt, Complete loss of 2 colonies of IrFe, Urchin count=5, Sponge loss count=6	Expansion 3 colonies IrFe, Increased algae on 2 AgCl, Reduction 80% Red Encrusting Sponge, Urchin count=1, Sponge loss count=0
Pin33	No apparent change, Urchin count=10	Less Dictyoda sp., Wasting of 1 colony of IrSt, Increased Turf Algae, Urchin count=6, Sponge loss count=0	Decrease in turf algae, Urchin count=5, Sponge loss count=0
Pin34	No apparent change, Urchin count=5	Increase in green algae, Urchin count=0, Sponge loss count=0	Increase 1 colony NiEr, Increase 2 colonies IrSt, Urchin count=2, Sponge loss count=0
Pin35	No apparent change, Urchin count=0	Increase in green turf algae, Urchin count=1, Sponge loss count=0	Complete loss 2 colonies IrSp, Expansion 1 colony IrFe, Urchin count=0, Sponge loss count=2
Pin36	Expansion of one colony of NeNo, Urchin count=0	NC, Urchin count=0, Sponge loss count=0	Increase 2 colonies NeNo, Increase 4 colonies, Decrease 1 colony AgCl, Urchin count=0, Sponge loss count=0
Pin37	No apparent change, Urchin count=4	Increase in green turf algae, Urchin count=2, Sponge loss count=0	Decrease Turf Algae 90%, Decrease in macroalgae 100%, Urchin count=0, Sponge loss count=0
Pin39	Reduction of one colony of IrSt, Urchin count=0	Expansion in 1 colony of IrSt, Expansion in 1 colony of IrFe, Increased Turf Algae, Urchin count=0, Sponge loss count=0	Increase 3 colonies IrFe, Increase 2 colonies IrSt, Decrease 80% red encrusting sponge, Decrease 1 colony IrSt, Urchin count=0, Sponge loss count=0
Pin40	Wasting of one colony of IrSt, Expansion in MiAl, Urchin count=3	Increase in green turf algae, Reduction in 1 colony of MyLa, Urchin count=2, Sponge loss count=0	Increase 1 colony MiAl, Complete Loss 1 colony NiEr , Urchin count=2, Sponge loss count=1
Pin42	Reduction in on colony of IrFe, Urchin count=3	Expansion in 1 colony of IrFe, Increased Turf Algae, Urchin count=1, Sponge loss count=0	Increase 3 colonies IrFe, Complete Loss 1 colony IrSp, Complete Loss Clump of Dictyota, Urchin count=5, Sponge loss count=1
Pin45B	Pin location corrected, Urchin count=5	Complete loss of 6 (all) colonies of IrFe, Complete loss of 4 (all) colonies of IrSt, Increased Turf Algae, Urchin count=6, Sponge loss count=10	AgCl overgrown with algae, Urchin count=2, Sponge loss count=0
Pin48	Expansion of MiAl, Urchin count=2	Complete loss of 1 (all) colony of IrSt, 70% Reduction in MiAl, Increased Turf Algae, Urchin count=2, Sponge loss count=1	AgCl overgrown with algae, Recruitment 6 colonies Tubastraea , Urchin count=2, Sponge loss count=0
Pin49	Algal growth over one colony of IrSt, Expansion of one colony of NeNo, Reduction of one colony of NeNo, Urchin count=4	Expansion in 2 colonies of NeNo, Reduction in filamentous algae, Urchin count=5, Sponge loss count=0	Increase 4 colonies IrFe, Reduction 1 colony NiEr, Urchin count=1, Sponge loss count=0
Pin50	No apparent change, Urchin count=1	Wasting of 1 colony of NeNo, Urchin count=2, Sponge loss count=0	Increase in turf algae covering MaDe, Increase 1 colony IrFe, Urchin count=1, Sponge loss count=0
Pin51	Recovery of wasting colony of IrFe, Expansion of one colony of NiEr, Urchin count=0	Increase in green turf algae, Urchin count=0, Sponge loss count=0	No apparent change, Urchin count=0, Sponge loss count=0
Pin55	Expansion in MiAl, Urchin count=7	Reduction in MiAl, Increased Turf Algae, Urchin count=2, Sponge loss count=0	AgCl overgrown with algae, Reduction Peach Encrusting Sponge, Urchin count=6, Sponge loss count=0
Pin56	No apparent change, Urchin count=3	NC, Urchin count=3, Sponge loss count=0	AgCl overgrown with algae, Increase 1 colony IrFe, Urchin count=5, Sponge loss count=0
Pin60	No apparent change, Urchin count=3	NC, Urchin count=1, Sponge loss count=0	Expansion 2 colonies NeNo, Expansion 1 colony IrFe, Reduction orange encrusting sponge, Urchin count=0, Sponge loss count=0
Pin61	Reduction in SpCu, Urchin count=5	Complete loss of 6 colonies of IrSt, Wasting of 1 colony of IrSt, Complete loss of 1 colony of IrFe, Increased green turf algae, Urchin count=3, Sponge loss count=7	Expansion 1 colony IrSt, Expansion 2 colonies IrFe, Urchin count=1, Sponge loss count=0
Pin62	Less Dictyoda sp., Reduction of one colony of IrSt, Urchin count=0	Less Dictyoda sp., Urchin count=0, Sponge loss count=0	Expansion 4 colonies IrSt, Expansion 1 colony IrFe, Complete loss MyLa, Urchin count=2, Sponge loss count=0
Pin63	Recent mortality of ~ 20% one colony of MaDe, Urchin count=8	Partial recovery of bleached MaDe, Urchin count=4, Sponge loss count=0	Expansion 2 colony IrSt, Urchin count=2, Sponge loss count=0
Pin64	Recent mortality of ~ 5% MiAl, Urchin count=0	50% Reduction in MiAl, Complete loss of 1 colony of IrSt, Urchin count=1, Sponge loss count=1	Reduction 1 colony MiAl, Expansion 1 colony MiAl, Reduction orange encrusting sponge, Increased algae on AgCl, Urchin count=1, Sponge loss count=0
Pin67	Reduction of one colony of IrFe, Increased turf algal coverage, Urchin count=4	Expansion of 1 colony of IrSt, Increased Turf Algae, Urchin count=4, Sponge loss count=0	Expansion 2 colony IrSt, Expansion 1 colony TuCo, Urchin count=4, Sponge loss count=0
Pin68	Reduction of one colony of IrSt, Urchin count=1	Increase in green turf algae, Urchin count=3, Sponge loss count=0	Expansion 3 colonies IrFe, Reduction algal cover on IrSt, Urchin count=5, Sponge loss count=0
Pin69	Expansion of one colony of IrSt, Urchin count=3	Increased Turf Algae, Urchin count=2, Sponge loss count=0	Expansion 4 colonies IrFe, Urchin count=3, Sponge loss count=0
Pin70	Expansion of one colony of IrSt, Reduction of one colony of IrSt, Reduction of one colony of NiEr, Urchin count=3	Reduction in 1 colony of IrSt, Increase in green turf algae, Less Dictyoda sp., Urchin count=0, Sponge loss count=0	Expansion 2 colonies IrFe, Increase 1 patch of orange encrusting sponge, Urchin count=4, Sponge loss count=0
Pin71	No apparent change, Urchin count=11	Complete loss of 1 colony of IrFe, Less Dictyoda sp., Urchin count=5, Sponge loss count=1	Expansion 2 colonies IrFe, Urchin count=2, Sponge loss count=0
Pin72	Expansion in MiAl, Urchin count=1	5% Bleaching of 2 colonies of IrSt, Urchin count=4, Sponge loss count=0	Expansion 1 colony NeNo, Reduction 1 colony MiAl, MaDe appears healthier, Urchin count=6, Sponge loss count=0
Pin73	No apparent change, Urchin count=3	Increased Turf Algae, Expansion of 1 colony of NeNo, Urchin count=4, Sponge loss count=0	Expansion 2 colonies IrFe, Reduction in fine algae, Increase 1 colony MaDe, Urchin count=2, Sponge loss count=0
Pin74	Complete loss of one colony of IrFe, Complete loss of one colony of GeGi, Urchin count=6	Wasting of 1 colony of IrSt, Increased Turf Algae, Urchin count=1, Sponge loss count=0	Complete Loss 1 colony IrFe, Reduction 1 colony IrSt, Urchin count=2, Sponge loss count=1
Pin75	Expansion of one colony of IrFe, Expansion of one colony of NeNo, Urchin count=0	Complete loss of 2 colonies of IrFe, Expansion of one colony of NeNo, Less Dictyoda sp., Urchin count=0, Sponge loss count=2	Reduction in algal cover, Expansion 1 colony IrSt, Urchin count=4, Sponge loss count=0
Pin76	Less Dictyoda sp., Urchin count=0	Increase in green turf algae, Complete loss 1 colony GeGi, Urchin count=0, Sponge loss count=0	Expansion 1 colony IrSt, Complete Loss 1 colony IrSt, Expansion 1 colony IrFe, Urchin count=0, Sponge loss count=0
Pin78	Reduction of one colony of IrFe, Urchin count=2	Reduced turf alage, Urchin count=1, Sponge loss count=0	Complete loss 1 colony IrSt, Dictoyota is absent, Expansion 1 colony ArCr, New colonies of blue encrusting sponge, Urchin count=2, Sponge loss count=1
Pin79	Expansion in MiAl, Urchin count=0	15% reduction in MiAl, Urchin count=0, Sponge loss count=0	Reduction 1 colony MiAl, Expansion 1 colony StIn, Expansion 1 colony MiAl, Urchin count=1, Sponge loss count=0
Pin80	No apparent change, Urchin count=4	Reduction in SpCu, Urchin count=2, Sponge loss count=0	Expansion 1 colony StIn, Expansion 1 colony SiRa, Increase in Dictyota, Urchin count=0, Sponge loss count=0
Pin81	Complete loss of one colony of unk sponge IV, Wasting of one colony of IrSt, Reduction in SpCu, Complete loss of one colony of IrSt, Urchin count=4	Complete loss of 2 colonies of IrSt, Reduction in 1 colony of AgCl, Increased Turf Algae, Urchin count=1, Sponge loss count=2	AgCl overgrown with algae, Expansion 1 colony SiRa, Increase in Turf Algae, Urchin count=1, Sponge loss count=0
Pin85	Expansion in MiAl, Urchin count=9	90% Reduction in MiAl, Complete loss of 1 (all) colony of IrSt, Increased Turf Algae, Urchin count=6, Sponge loss count=1	Expansion 1 colony MiAl, Expansion 1 colony MoCa, Urchin count=2, Sponge loss count=0
Pin UNK A	Expansion in MiAl, Urchin count=6	Complete loss of 2 colonies of IrSt, Reduction in turf algae, Urchin count=3, Sponge loss count=2	AgCl overgrown with algae, Expansion 1 colony IrSt, Urchin count=3, Sponge loss count=0
Pin UNK B	No apparent change, Urchin count=7	Increased Turf Algae, Complete loss 1 colony GeGi, Urchin count=0, Sponge loss count=1	Reduction 1 colony IrSt, Expansion 2 colonies IrFe, Urchin count=1, Sponge loss count=0

Appendix 3. Mesophotic repetitive photostation qualitative comparisons, 2015–2018.

Station	Depth (m)	Site Description 2015	2015–2016 Comparison	2016–2017 Comparison	2017–2018 Comparison
M01	39.90	Coral (StIn_1-2) Stephanocenia intersepta: 1 50 x 30 x 12 cm and 2 25 x 10 cm. No bleaching present. Apprximately 20% hardbottom covered in macroalgae and remaining consists of rubble.	No change apparent	No change apparent	Marker moved ~10cm, closer to StIn_2. No other change apparent
M02	54.70	Octocoral (HyW_1) white Hypnogorgia sp.: 50 x 96 cm. Black coral (Stic_1-2) sea whips. Poor visibilty. 100% hardbottom.	No change apparent	Low visibility. No change apparent	Low visibility. Growth of bryzoan. Other biota not photographed
M03	51.20	Sponges (IrW_1-4) white Ircinia sp.. (IrB_1-12) brown Ircinia sp., and (NiEr_1-4) Niphates erecta with gastropods. Black coral sea fans (BCSF_1): 20 x 3 cm (BCSF_2): 24 x 10 cm. Black coral sea whips. 100% cover of trawl net on hardbottom.	Marker appears to have moved, 10-15cm.	Complete loss of one colony of Niphates erecta	Expansion of IrB_4 and IrB_7
M04	52.40	Sponges (IrW_1) white Ircinia sp.: 25 x 7 x 8 cm, (IrW_2) white Ircinia sp.: 16 x 8 x 4 cm. (IrB_1-2), and brown Ircinia sp.. Black coral sea fan (BCSF_1). 100% hardbottom.	Marker appears to have moved, 30-35cm.	Not found	Comnparied to 2016. Marker moved ~5 cm. IrB heavily silted. Growth of a BCSF.
M05	53.60	Octocorals (HyW_1-2) white Hypnogorgia sp.. (HyR_1) red Hypnogprgia sp.: 28 cm in height. (HyG_1) gold Hypnogorgia sp.. Black coral sea whip (Stic_1). 100% hardbottom.	No change apparent	Low visibility. No change apparent	HyW_1 broken branch 25 x 19 cm.
M06	49.10	Black coral (BCSF_1) sea fan: 25 x 29 cm and (Stic_1-3) sea whips. Sponges (NiEr_1-2) Niphates erecta and (ArC_1) Arolochroia crassa. 100% hardbottom	Sea frost growing on BCSF_1	Not found	Reduction of BCSF_1 (arial view: 18 x 12 cm). Growth of ArC_1
M08	35.80	Coral (StIn_1) Stephanocenia intersepta: 58.6 x 48.3 x 4 cm. No bleaching present. (StIn_2) Stephanocenia intersepta: 32.6 x 18.0 x 3 cm. Sponge Neofibularia nolitangere. 80% hardbottom covered in macroaglae and remaining consists of rubble.	StIn_1 unsilted edge. More Dictyota growth	Bleaching on margin of StIn_1, <1% of coral	Recovery of bleached margin on StIn_1

Appendix 4. Bank crest random transect percent cover data, 2015–2018.

Sample	Habitat	Year	Agaricia fragilis (Scleractinian)	Pseudodiploria strigosa (Scleractinian)	Madracis auretenra (Scleractinian)	Madracis brueggemanni (Scleractinian)	Madracis decactis (Scleractinian)	Millepora alcicornis (Hydrocoral)	Montastraea cavernosa (Scleractinian)	Porites astreoides (Scleractinian)	Stephanocoenia intersepta (Scleractinian)	Siderastrea radians (Scleractinian)	Agelas clathrodes (Sponge)	Aplysina species I (Sponge)	Aiolochroia crassa (Sponge)	Callyspongia vaginalis (Sponge)	Chondrilla nucula (Sponge)	Cliona sp. (Sponge)	Ectyoplasia ferox (Sponge)	Geodia gibberosa (Sponge)	Ircinia felix (Sponge)	Ircinia strobilina (Sponge)	Mycale laxissima (Sponge)	Neofibularia nolitangere (Sponge)	Niphates erecta (Sponge)	Placospongia melobesioides (Sponge)	Unknown Sponge I (Sponge)	Unknown Sponge III (Sponge)	Unknown Sponge IV (Sponge)	Unknown Sponge V (Sponge)	Encrusting sponge (Sponge)	Spirastrelle cunctatrix (Sponge)	Unknown encrusting sponge I (Sponge)	Unknown encrusting sponge II (Sponge)	Unknown encrusting sponge III (Sponge)	Algae (Macroalgae)	Dictyota sp. (Macroalgae)	Filamentous Algae (Macroalgae)	Hydroid (Other Biotic)	Lobophora variegata (Macroalgae)	Peyssonnelia sp. (Macroalgae)	Turf Algae Matrix (Macroalgae)	Bare Substrate (Colonizable Substrate)	Crustose Coralline Algae (Colonizable Substrate)	Fine Turf Algae Matrix (Colonizable Substrate)	Fish (Other Biotic)	Invertebrate (Other Biotic)	Urchin (Other Biotic)	Substrate Rubble (Rubble)	Total Urchin Count
F21-1	Low Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.41	0.20	0.00	0.00	0.00	2.24	2.65	0.00	5.09	0.61	0.00	0.00	0.00	0.00	0.00	0.00	2.24	1.02	0.81	0.00	2.65	28.72	5.30	0.00	0.00	0.20	0.00	6.31	8.76	4.07	19.96	0.20	0.00	0.00	7.54	34
F21-2	Low Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	6.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.21	0.00	1.04	26.50	5.18	0.00	0.62	0.62	0.00	8.49	6.21	3.93	26.71	0.00	0.00	0.00	12.63	4
F22-1	Low Relief	2015	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	0.00	0.00	0.20	0.82	0.00	8.81	0.20	0.00	0.00	0.00	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.61	14.14	0.00	0.20	0.00	0.00	0.00	10.66	6.97	3.28	36.68	0.20	0.00	0.00	13.93	0
F22-2	Low Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	2.06	0.00	2.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.21	15.23	0.41	0.00	0.00	0.00	0.00	9.67	8.23	1.85	33.95	0.00	0.21	0.00	24.49	3
F24-1	Low Relief	2015	0.00	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.21	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00	0.82	3.49	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	25.05	0.21	0.00	0.00	1.64	0.00	2.87	8.01	0.41	31.21	0.62	0.00	0.41	21.97	8
F24-2	Low Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.21	1.23	0.62	0.00	6.78	0.21	0.00	0.00	0.00	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00	18.89	0.82	0.00	0.00	0.00	0.00	3.29	12.11	0.00	46.00	0.00	0.00	0.00	6.37	14
F25-1	Low Relief	2015	0.00	0.00	0.21	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	3.34	1.88	0.00	1.67	0.21	0.00	0.00	0.00	0.00	0.00	0.00	2.30	0.42	0.00	0.63	2.51	26.72	0.21	0.21	0.00	0.00	0.00	2.92	3.34	3.55	36.33	0.21	0.00	0.00	13.15	2
F26-1	Low Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	16.94	0.40	0.20	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.81	32.86	3.83	0.60	0.00	0.00	0.00	14.72	1.81	1.81	20.77	0.00	0.00	0.00	3.43	11
F26-2	Low Relief	2015	0.00	0.00	0.00	0.00	0.00	0.20	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	10.45	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00	28.07	2.66	0.82	0.00	0.41	0.00	16.80	2.25	1.64	25.41	0.00	0.00	0.00	10.25	20
F27-2	Low Relief	2015	0.00	0.00	2.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.21	0.00	0.64	1.49	0.00	18.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	0.00	0.00	0.21	0.21	37.87	0.21	0.00	0.43	0.00	0.00	1.91	1.70	1.91	19.57	0.00	0.00	0.00	9.79	0
F28-1	Low Relief	2015	0.00	0.00	0.00	0.00	0.00	0.88	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	3.52	0.00	9.01	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	26.59	0.00	0.00	0.00	0.00	0.00	1.98	3.52	0.44	30.77	0.00	0.22	0.00	20.88	0
F28-2	Low Relief	2015	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	0.63	0.00	0.00	0.00	0.00	0.00	1.04	0.00	15.83	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	31.25	0.00	0.00	0.00	0.00	0.00	3.96	0.83	0.42	27.92	0.00	0.00	0.00	17.50	2
F29-1	Low Relief	2015	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	0.00	0.00	0.00	0.00	0.83	0.21	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	8.96	0.83	48.33	0.00	0.00	0.21	20.21	12
F29-2	Low Relief	2015	0.00	0.00	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	0.00	1.51	2.15	0.00	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.57	0.00	0.00	0.00	0.00	0.00	1.94	8.39	0.86	38.49	0.00	0.00	1.29	25.16	3
F30-1	Low Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00	0.21	0.62	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.21	0.00	0.62	30.17	7.85	0.00	0.00	0.62	0.00	2.89	11.78	2.27	29.96	0.21	0.00	0.00	8.26	3
F31-1	Low Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.64	0.64	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.64	1.91	0.21	0.00	1.06	0.00	8.30	8.72	2.98	34.89	0.00	0.85	0.21	15.74	25
F31-2	Low Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	2.38	0.00	4.55	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.65	25.97	1.95	0.00	0.00	1.30	0.00	3.68	0.65	5.63	35.06	0.00	0.00	0.22	16.67	23
F32-2	Low Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	3.21	0.00	10.06	0.43	0.00	0.00	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	26.34	7.28	0.00	0.00	0.43	0.00	6.85	3.21	2.36	32.33	0.00	0.00	0.00	5.57	11
F32-1	Low Relief	2015	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	0.00	0.00	0.00	0.00	1.70	0.00	0.00	7.23	0.64	0.00	0.00	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	1.06	35.53	5.32	0.00	0.00	0.85	0.00	1.91	0.21	5.11	22.55	0.00	0.00	0.21	16.17	18
F33-1	Low Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.17	0.81	0.40	0.00	0.00	0.00	6.65	2.82	1.21	38.10	0.00	0.00	0.00	28.23	2
F33-2	Low Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	18.62	0.20	0.20	0.00	0.40	0.00	15.79	1.82	0.40	31.98	0.00	0.20	0.00	28.95	6
P22-2	Low Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.55	0.00	0.00	8.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.28	0.00	0.00	8.03	6.65	0.00	0.00	0.00	0.00	45.98	1.11	0.55	20.22	0.00	0.00	0.28	7.20	6
P13-1	High Relief	2015	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	2.47	2.47	0.00	10.49	0.41	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.00	27.98	0.62	0.41	0.00	0.21	0.00	13.17	0.82	1.65	26.34	0.00	0.00	0.21	10.29	30
P13-2	High Relief	2015	0.00	0.00	0.00	0.00	0.21	10.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	2.07	3.93	0.00	8.88	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.00	0.00	0.00	23.35	0.62	0.00	0.00	0.00	0.00	9.71	3.93	0.62	29.55	0.41	0.00	0.00	5.17	30
P14-1	High Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.41	0.00	0.00	0.00	0.41	0.00	0.00	0.21	0.00	0.41	2.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.00	0.00	0.00	40.12	2.47	0.00	0.00	1.23	0.00	1.44	1.23	1.44	33.54	0.00	0.00	0.00	12.35	0
P14-2	High Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	2.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.65	2.27	0.00	0.00	0.00	39.67	2.69	0.00	0.21	1.65	0.00	2.69	2.07	1.65	27.48	0.00	0.21	0.00	14.05	0
P15-2	High Relief	2015	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	0.21	0.00	0.00	0.00	0.21	4.11	3.08	0.00	3.49	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.21	0.00	0.00	0.00	22.79	0.00	0.00	0.00	0.00	0.00	1.85	4.31	0.62	44.97	0.00	0.00	1.03	11.91	12
P16-1	High Relief	2015	0.00	0.00	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.52	0.00	19.57	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.22	0.00	0.00	0.22	20.87	1.74	0.00	0.00	0.00	0.00	7.39	4.78	0.65	29.78	0.00	0.00	0.00	3.26	4
P16-2	High Relief	2015	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00	1.02	5.50	0.00	20.77	0.41	0.00	0.00	0.00	0.00	0.00	0.00	3.26	0.61	0.00	0.20	1.22	26.07	2.04	0.00	0.00	0.00	0.00	4.89	3.46	1.63	26.68	0.00	0.00	0.20	0.61	29
P17-1	High Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	1.86	1.66	0.00	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.83	1.04	0.00	0.00	0.21	35.82	5.59	0.41	0.00	0.21	0.00	9.11	1.45	0.41	28.36	0.00	0.41	0.00	10.56	2
P18-1	High Relief	2015	0.00	0.00	0.00	0.00	0.00	3.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	2.33	0.21	0.00	2.33	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.21	20.55	3.18	0.00	0.00	0.00	0.00	20.13	0.64	1.27	29.66	0.21	0.00	1.27	12.71	9
P18-2	High Relief	2015	0.00	0.48	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	1.19	3.80	0.00	1.43	0.24	0.00	0.00	0.00	0.00	0.00	0.00	1.43	1.43	0.00	0.00	0.24	20.43	2.61	0.00	0.00	0.24	0.00	13.78	1.66	0.95	33.73	0.00	0.00	1.19	13.30	12
P21-1	High Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.82	0.00	0.82	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	14.90	0.00	0.00	0.00	0.00	0.00	7.55	4.69	1.63	49.39	0.00	0.00	0.00	18.78	0
P21-2	High Relief	2015	0.00	0.00	0.00	0.00	0.00	1.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	1.54	4.62	0.00	1.10	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.88	0.00	0.00	0.22	19.56	1.54	0.00	0.00	0.00	0.00	10.77	3.74	3.30	36.04	0.22	0.00	3.52	8.35	27
P22-1	High Relief	2015	0.00	0.00	0.00	0.00	0.00	0.91	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.82	0.23	0.00	10.25	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	22.78	1.37	0.00	0.23	0.23	0.00	7.29	2.51	1.82	29.61	0.23	0.00	0.46	18.91	14
P15-1	High Relief	2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50	2.06	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	15.02	0.00	0.00	0.00	0.00	0.00	9.88	8.44	0.21	50.82	0.00	0.00	1.65	7.41	31
F41	Low Relief	2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.42	0.00	0.00	0.00	0.00	1.04	0.21	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.88	1.04	0.00	0.00	0.00	12.53	25.89	0.84	0.00	0.00	0.00	20.67	1.04	3.55	14.20	0.00	0.00	0.00	12.11	0
F42	Low Relief	2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.21	0.00	1.46	0.00	0.00	0.00	0.63	0.63	0.00	2.92	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.84	1.04	0.00	0.00	0.00	11.27	11.06	1.67	0.00	0.00	0.00	21.92	0.21	6.47	15.45	0.00	0.00	0.00	23.59	0
F43	Low Relief	2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.20	0.00	0.00	3.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.20	0.00	0.00	0.00	9.41	4.50	0.61	0.00	0.00	0.00	22.49	0.00	6.95	26.79	0.00	0.20	0.00	23.72	0
F44	Low Relief	2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.21	0.00	0.00	0.00	0.63	0.00	0.00	0.00	1.27	0.00	0.00	6.55	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.21	0.00	0.00	0.21	4.44	0.21	0.42	0.00	0.00	0.00	35.31	1.69	4.65	34.88	0.00	0.00	0.00	7.82	0
F45	Low Relief	2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.06	0.65	2.60	0.00	0.00	0.00	20.82	1.52	2.82	33.62	0.00	0.00	0.00	26.03	0
F46	Low Relief	2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	1.44	1.65	0.00	1.44	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	12.55	2.67	0.82	0.00	0.00	0.21	36.42	3.70	6.58	15.02	0.00	0.00	0.00	15.84	0
F47	Low Relief	2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.42	0.20	0.40	0.00	0.00	0.00	1.22	4.06	0.00	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.20	0.00	0.00	0.00	4.87	0.61	1.83	0.00	0.00	0.00	19.68	10.95	6.90	22.11	0.00	0.00	0.81	20.69	4
F48	Low Relief	2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	1.34	0.76	0.00	4.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.15	0.38	0.00	0.00	0.00	11.28	14.91	2.29	0.00	0.00	0.19	23.90	7.07	5.74	11.47	0.00	0.00	0.19	13.77	8
F49	Low Relief	2016	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.40	0.00	0.40	0.00	0.40	0.00	0.20	0.00	0.00	0.00	0.00	0.61	0.40	0.20	10.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	12.12	26.67	0.81	0.00	0.00	0.00	12.53	3.64	5.45	11.52	0.00	0.00	0.00	13.54	0
F50	Low Relief	2016	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	1.03	0.00	0.00	0.00	0.00	1.24	0.21	0.00	0.00	0.00	1.86	1.65	0.21	10.33	0.21	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.62	0.00	0.21	0.00	15.70	6.61	0.41	0.00	0.00	0.00	20.25	2.69	5.17	14.05	0.00	0.41	0.00	14.88	1
F52	Low Relief	2016	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	2.67	0.00	7.20	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.21	0.41	0.00	9.88	0.82	0.00	0.00	0.00	0.00	17.70	6.79	5.35	33.33	0.21	0.21	0.00	12.96	1
F53	Low Relief	2016	0.00	0.00	0.00	0.00	0.00	1.22	0.00	0.00	0.20	0.00	0.20	0.00	0.00	0.61	1.22	0.00	0.00	0.00	1.02	0.41	0.00	7.72	0.81	0.00	0.00	0.00	0.00	0.00	0.00	1.22	1.83	0.00	0.81	0.00	16.67	18.29	1.02	0.00	0.00	1.83	8.13	5.08	5.69	16.06	0.00	0.00	0.00	9.96	1
F54	Low Relief	2016	0.21	0.00	0.00	0.21	0.00	1.87	0.00	0.00	0.21	0.00	0.41	0.00	0.00	1.24	1.45	0.00	0.00	0.00	0.00	1.04	0.00	11.20	0.62

Appendix 5. Mesophotic random transect percent cover data, 2015–2018.

| Sample | Black Coral Sea Fan (Antipatharia) | Stichopathes sp. (Antipatharia) | Ellisella sp. (Octocorallia) | G03 (Octocorallia) | G16 (Octocorallia) | Hypnogorgia sp. (Octocorallia) | Muricea pendula (Octocorallia) | Nicella sp. (Octocorallia) | Agaricia fragilis (Scleractinia) | Agaricia sp. (Scleractinia) | Colonial Cup Coral (Scleractinia) | Madracis aurentendra (Scleractinia) | Madracis brueggemanni (Scleractinia) | Madracis cf. asperula (Scleractinia) | Madracis decactis (Scleractinia) | Millepora alcicornis (Hydrocoral) | Oculina sp. (Scleractinia) | Porites asteroides (Scleractinia) | Porites astreoides (Scleractinia) | SI4 (Scleractinia) | SI6 (Scleractinia) | SI8 (Scleractinia) | SI9 (Scleractinia) | Solitary Cup Coral (Scleractinia) | Stephanocoenia intersepta (Scleractinia) | Siderastrea radians (Scleractinia) | Anthomastus robustum (Alcyonacea) | Zoanthid (Zoantharia) | Acanthella cubensis (Porifera) | Aiolochroia crassa (Porifera) | Aplysina sp. (Porifera) | Aplysina sp. (Porifera) | Callyspongia vaginalis (Porifera) | Chondrosia sp. (Porifera) | DFH Sponge 17 (Porifera) | DFH Sponge 34 (Porifera) | Dysidea sp. (Porifera) | Ectoplasia ferox (Porifera) | Encrusting sponge (Porifera) | Encrusting - Brown (Porifera) | Encrusting - Orange (Porifera) | Encrusting - Peach (Porifera) | Encrusting - Pink (Porifera) | Encrusting - Purple (Porifera) | Encrusting - Red (Porifera) | Encrusting - Yellow (Porifera) | Erylus alleni (Porifera) | Geodia sp. (Porifera) | Haliclona sp. (Porifera) | Ircinia felix (Porifera) | Ircinia sp. (Porifera) | Ircinia strobilina (Porifera) | Mycale laxissima (Porifera) | Neofibularia nolitangere (Porifera) | Neopetrosia sp. (Porifera) | Niphates erecta (Porifera) | Placospherastra antillensis (Porifera) | Placospongia melobesioides (Porifera) | Unidentified Sponge (Porifera) | AL10 (Macroalgae) | Besgiatoa sp. (Macroalgae) | Codium sp. (Macroalgae) | Dictyota sp. (Macroalgae) | Filamentous Algae (Macroalgae) | Green Algae (Macroalgae) | Green Turf Algae (Macroalgae) | Kallymenia sp. (Macroalgae) | Lobophora variegata (Macroalgae) | Peysonnelia sp. (Macroalgae) | Sargassum hystrix (Macroalgae) | Silted Macroalgae (Macroalgae) | Turf Algae Matrix (Macroalgae) | Bare Substrate (Colonizable Substrate) | Crustose Coralline Algae (Colonizable Substrate) | Fine Turf Algae Matrix (Colonizable Substrate) | Annelida (Other Biotic) | Bryozoa (Other Biotic) | Echinodermata (Other Biotic) | Fish (Other Biotic) | Hydroids (Other Biotic) | Mollusca (Other Biotic) | Urchin (Other Biotic) | Coral Rubble (Rubble) | Silted Hardbottom (Soft) | Soft Bottom (Soft) | Substrate Rubble (Rubble) |
|---|---|---

Appendix 6. Mesophotic random transect coral density data, 2015–2018.

Sample	Black Coral (Antipatharia)	Acanthopathes thyoides (Antipatharia)	Antipathes furcata (Antipatharia)	Antipathes sp. (Antipatharia)	Stichopathes sp. (Antipatharia)	Tanacetipathes sp. (Antipatharia)	Diodogorgia nodulifera (Octocorallia)	Ellisella sp. (Octocorallia)	G01 (Octocorallia)	G03 (Octocorallia)	G05 (Octocorallia)	G07 (Octocorallia)	G12 (Octocorallia)	G13 (Octocorallia)	G16 (Octocorallia)	Hypnogorgia sp. (Octocorallia)	Muricea pendula (Octocorallia)	Scleracis sp. (Octocorallia)	Swiftia sp. (Octocorallia)	Unidentified Gorgonian (Octocorallia)	Agaricia sp. (Scleractinia)	Madracis decactis (Scleractinia)	Madracis brueggemanni (Scleractinia)	Millepora alcicornis (Hydrocoral)	Oculina (Scleractinia)	SO4 (Scleractinia)	S06 (Scleractinia)	S07 (Scleractinia)	S08 (Scleractinia)	Colonial Cup Coral (Scleractinia)	Siderastraea radians (Scleractinia)	Solitary Cup Coral (Scleractinia)	Stephanocoenia intersepta (Scleractinia)	Zoanthid (Zoanthidae)	Sample Information	Habitat	Latitude (DD)	Longitude (DD)	Area (m2)	Year
2015 RT02	3.79	0.00	0.00	0.00	2.98	0.27	0.00	0.00	0.00	0.00	0.00	0.27	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	0.00	0.00		DR	28.165100	-94.307000	3.69	2015
2015 RT03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.53	0.00		CR	28.164200	-94.297600	5.69	2015
2015 RT05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13		CR	28.167300	-94.292200	7.86	2015
2015 RT07	2.42	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.66	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		DR	28.169200	-94.287200	7.85	2015
2015 RT08	3.63	0.00	0.00	0.00	1.01	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	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	0.00	0.00		DR	28.157400	-94.302600	4.96	2015
2015 RT10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.30	0.00		CR	28.165600	-94.298500	10.15	2015
2015 RT11	1.16	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		DR	28.160600	-94.306400	12.90	2015
2015 RT12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.19	0.00	0.19	0.00		CR	28.164100	-94.299400	10.63	2015
2015 RT13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00		CR	28.165800	-94.293600	8.60	2015
2015 RT14	2.22	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		DR	28.169600	-94.305600	10.34	2015
2015 RT15	1.48	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.46	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00		DR	28.173600	-94.290600	4.05	2015
2015 RT16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	6.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13		CR	28.166600	-94.292400	7.58	2015
2015 RT18	2.24	0.61	0.00	0.00	2.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.61	0.00	0.20	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	0.41	0.00	0.00		DR	28.175400	-94.295300	4.90	2015
2015 RT19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.45	0.00		CR	28.164100	-94.298100	8.80	2015
2015 RT20	1.37	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		DR	28.161500	-94.308200	5.85	2015
2015 RT21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.00	1.01	0.00		CR	28.163800	-94.298700	7.89	2015
2015 RT22	2.15	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		DR	28.159500	-94.304100	9.74	2015
2015 RT23	1.67	0.11	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00		DR	28.159600	-94.306600	8.99	2015
2015 RT25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.30	0.00		CR	28.165400	-94.294300	6.74	2015
2015 RT29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00		CR	28.165000	-94.295600	8.74	2015
2016 RT01	1.68	0.00	0.10	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	1.68	0.00	0.00		DR	28.161900	-94.306500	9.54	2016
2016 RT02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.40	0.00		CR	28.166600	-94.297100	17.30	2016
2016 RT03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.88	0.00		CR	28.164400	-94.297500	6.81	2016
2016 RT04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.59	0.00		CR	28.167500	-94.294500	8.48	2016
2016 RT05	0.34	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	0.34	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		DR	28.157200	-94.303200	11.83	2016
2016 RT06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.86	0.00		CR	28.166600	-94.297400	9.28	2016
2016 RT08	0.11	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	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.32	0.00	0.00	0.00	10.79	0.00	0.00		DR	28.157400	-94.300300	9.36	2016
2016 RT09	0.46	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.46	0.23	0.00	0.00	0.00	0.00	0.00	0.23	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00		DR	28.170600	-94.289900	4.36	2016
2016 RT10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00		CR	28.167600	-94.293600	8.29	2016
2016 RT11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00		CR	28.165500	-94.293900	9.75	2016
2016 RT13	2.39	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	0.10	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	0.00	4.78	0.00	0.00		DR	28.173700	-94.291300	10.46	2016
2016 RT15	2.63	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.11	0.00	2.30	0.00	0.44		DR	28.168800	-94.287100	9.14	2016
2016 RT16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	0.00	0.09	0.00		CR	28.164000	-94.299500	10.86	2016
2016 RT18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	4.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00		CR	28.167500	-94.293900	8.20	2016
2016 RT19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.47	0.00	0.47	0.00		CR	28.165300	-94.294500	10.64	2016
2016 RT20	3.35	0.00	0.00	0.00	2.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	0.00	0.00		DR	28.175000	-94.294100	6.27	2016
2016 RT21	2.15	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	1.66	0.08	0.00		DR	28.170400	-94.305800	12.08	2016
2016 RT22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	4.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.11	0.00		CR	28.165800	-94.293100	9.26	2016
2016 RT23	0.81	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00		DR	28.159500	-94.304100	17.29	2016
2016 RT24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	1.05	0.00		CR	28.167100	-94.295400	13.37	2016
2016 RT25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.12	0.00		CR	28.166600	-94.292400	8.25	2016
2016 RT26	1.46	0.00	0.00	0.00	0.60	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.40	0.00	0.00		DR	28.172500	-94.290000	15.11	2016
2016 RT27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.25	0.00		CR	28.164600	-94.297200	8.16	2016
2016 RT28	2.64	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	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.55		DR	28.164300	-94.287100	10.97	2016
2016 RT29	2.43	0.00	0.08	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	1.21	0.00	0.15		DR	28.174400	-94.292700	13.19	2016
2017 RT01	2.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51	0.00	0.00		DR	28.161500	-94.306400	3.97	2017
2017 RT02	1.98	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.20	0.00	0.00	3.96	0.00	0.40		DR	28.165800	-94.306900	5.05	2017
2017 RT03	2.83	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00		DR	28.165200	-94.307000	4.25	2017
2017 RT04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.37	0.00		CR	28.165400	-94.294500	13.51	2017
2017 RT06	0.54	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.00	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	0.33	0.00	0.11		DR	28.170600	-94.289100	9.19	2017
2017 RT07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00		CR	28.165100	-94.295600	12.43	2017
2017 RT09	0.65	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		DR	28.175500	-94.294600	10.71	2017
2017 RT10	0.61	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.30	0.00	0.00	0.00	0.00	0.61	0.00	0.00		DR	28.170400	-94.288600	6.59	2017
2017 RT11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00		CR	28.164100	-94.299300	9.86	2017
2017 RT12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00		CR	28.164800	-94.299100	13.29	2017
2017 RT13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00		CR	28.167200	-94.292300	11.99	2017
2017 RT14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.58	0.00		CR	28.164100	-94.298100	13.73	2017
2017 RT15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	1.54	0.00		CR	28.166100	-94.298200	10.37	2017
2017 RT16	0.44	0.00	0.00	0.00	1.09	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	0.00	0.00		DR	28.159800	-94.305200	4.57	2017
2017 RT17	0.77	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00		DR	28.170200	-94.305900	6.53	2017
2017 RT18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.15	0.00		CR	28.165700	-94.293900	13.64	2017
2017 RT19	0.90	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		DR	28.169900	-94.305

Appendix 7. *Diadema antillarum* density in bank crest repetitive photostations, 2015–2018.

PIN	Year	Density (m2)
Pin UNK A (136)	2015	5.63
Pin UNK B (9)	2015	1.88
Pin1	2015	2.50
Pin10	2015	0.00
Pin13	2015	11.88
Pin15	2015	3.13
Pin16	2015	3.75
Pin17	2015	0.00
Pin18	2015	0.00
Pin19	2015	1.25
Pin20	2015	1.88
Pin21	2015	6.25
Pin22	2015	0.00
Pin23	2015	6.88
Pin24	2015	0.00
Pin25	2015	0.00
Pin26	2015	3.13
Pin27	2015	2.50
Pin28	2015	1.88
Pin31	2015	0.63
Pin32	2015	1.25
Pin33	2015	7.50
Pin34	2015	3.75
Pin35	2015	0.00
Pin36	2015	0.00
Pin37	2015	0.00
Pin39	2015	0.00
Pin4	2015	3.75
Pin40	2015	4.38
Pin42	2015	2.50
Pin45B	2015	1.88
Pin48	2015	1.25
Pin49	2015	1.25
Pin5	2015	1.25
Pin50	2015	1.88
Pin51	2015	0.00
Pin55	2015	4.38
Pin56	2015	2.50
Pin60	2015	2.50
Pin61	2015	3.13
Pin62	2015	0.00
Pin63	2015	3.13
Pin64	2015	0.63
Pin67	2015	1.25
Pin68	2015	0.63
Pin69	2015	3.75
Pin70	2015	0.00
Pin71	2015	3.75
Pin72	2015	1.25
Pin73	2015	1.25
Pin74	2015	1.88
Pin75	2015	0.00
Pin76	2015	0.00
Pin78	2015	0.00
Pin79	2015	0.00
Pin8	2015	0.63
Pin80	2015	2.50
Pin81	2015	2.50
Pin85	2015	3.13
Pin1	2016	0.63
Pin4	2016	1.88
Pin5	2016	0.63
Pin8	2016	1.88
Pin10	2016	0.00
Pin13	2016	10.00
Pin15	2016	3.75
Pin16	2016	2.50
Pin17	2016	0.00
Pin18	2016	0.00
Pin19	2016	0.63
Pin20	2016	5.00
Pin21	2016	4.38
Pin22	2016	2.50
Pin23	2016	8.75
Pin24	2016	1.25
Pin25	2016	0.63
Pin26	2016	1.25
Pin27	2016	3.13
Pin28	2016	1.88
Pin31	2016	1.88
Pin32	2016	1.25
Pin33	2016	6.25
Pin34	2016	3.13
Pin35	2016	0.00
Pin36	2016	0.00
Pin37	2016	2.50
Pin39	2016	0.00
Pin40	2016	1.88
Pin42	2016	1.88
Pin45B	2016	3.13
Pin48	2016	1.25
Pin49	2016	2.50
Pin50	2016	0.63
Pin51	2016	0.00
Pin55	2016	4.38
Pin56	2016	1.88
Pin60	2016	1.88
Pin61	2016	3.13
Pin62	2016	0.00
Pin63	2016	5.00
Pin64	2016	0.00
Pin67	2016	2.50
Pin68	2016	0.63
Pin69	2016	1.88
Pin70	2016	1.88
Pin71	2016	6.88
Pin72	2016	0.63
Pin73	2016	1.88
Pin74	2016	3.75
Pin75	2016	0.00
Pin76	2016	0.00
Pin78	2016	1.25
Pin79	2016	0.00
Pin80	2016	2.50
Pin81	2016	2.50
Pin85	2016	5.63
Pin UNK A (136)	2016	3.75
Pin UNK B (9)	2016	4.38
Pin10	2017	0.00
Pin13	2017	3.13
Pin15	2017	0.63
Pin16	2017	0.63
Pin17	2017	0.00
Pin18	2017	0.00
Pin19	2017	1.25
Pin1	2017	0.63
Pin20	2017	0.00
Pin21	2017	1.88
Pin22	2017	4.38
Pin23	2017	3.13
Pin24	2017	3.13
Pin25	2017	0.00
Pin26	2017	1.88
Pin27	2017	1.88
Pin28	2017	1.25
Pin31	2017	0.00
Pin32	2017	3.13
Pin33	2017	3.75
Pin34	2017	0.00
Pin35	2017	0.63
Pin36	2017	0.00
Pin37	2017	1.25
Pin39	2017	0.00
Pin40	2017	1.25
Pin42	2017	0.63
Pin45	2017	3.75
Pin48	2017	1.25
Pin49	2017	3.13
Pin4	2017	1.25
Pin50	2017	1.25
Pin51	2017	0.00
Pin55	2017	1.25
Pin56	2017	1.88
Pin5	2017	0.63
Pin60	2017	0.63
Pin61	2017	1.88
Pin62	2017	0.00
Pin63	2017	2.50
Pin64	2017	0.63
Pin67	2017	2.50
Pin68	2017	1.88
Pin69	2017	1.25
Pin70	2017	0.00
Pin71	2017	3.13
Pin72	2017	2.50
Pin73	2017	2.50
Pin74	2017	0.63
Pin75	2017	0.00
Pin76	2017	0.00
Pin78	2017	0.63
Pin79	2017	0.00
Pin80	2017	1.25
Pin81	2017	0.63
Pin85	2017	3.75
Pin8	2017	1.25
Pin UNK A (136)	2017	1.88
Pin UNK B (9)	2017	0.00
PIN10	2018	0.00
PIN13	2018	3.75
PIN15	2018	0.63
PIN16	2018	3.75
PIN17	2018	0.00
PIN18	2018	0.00
PIN19	2018	0.00
PIN1	2018	1.25
PIN20b	2018	1.25
PIN21	2018	1.25
PIN22	2018	3.75
PIN23	2018	1.88
PIN24	2018	0.63
PIN25	2018	1.25
PIN26	2018	3.13
PIN27	2018	3.75
PIN28	2018	3.13
PIN31	2018	5.63
PIN32	2018	0.63
PIN33	2018	3.13
PIN34	2018	1.25
PIN35	2018	0.00
PIN36	2018	0.00
PIN37	2018	0.00
PIN39	2018	0.00
PIN40	2018	1.25
PIN42	2018	3.13
PIN45	2018	1.25
PIN48	2018	1.25
PIN49	2018	0.63
PIN4	2018	1.88
PIN50	2018	0.63
PIN51	2018	0.00
PIN55	2018	3.75
PIN56	2018	3.13
PIN5	2018	0.00
PIN60	2018	0.00
PIN61	2018	0.63
PIN62	2018	1.25
PIN63	2018	1.25
PIN64	2018	0.63
PIN67	2018	2.50
PIN68	2018	3.13
PIN69	2018	1.88
PIN70	2018	2.50
PIN71	2018	1.25
PIN72	2018	3.75
PIN73	2018	1.25
PIN74	2018	1.25
PIN75	2018	2.50
PIN76	2018	0.00
PIN78	2018	1.25
PIN79	2018	0.63
PIN80	2018	0.00
PIN81	2018	0.63
PIN85	2018	1.25
PIN8	2018	0.63
Pin UNK A (136)	2018	1.88
Pin UNK B (9)	2018	0.63

Appendix 8. *Diadema antillarum* density in bank crest random transects, 2015–2018.

Sample	Habitat	Year	Latitude	Longitude	Density (m2)
F21	Low Relief	2015	28.166110	-94.294480	2.33
F22	Low Relief	2015	28.165780	-94.295740	0.18
F24	Low Relief	2015	28.166620	-94.294760	1.35
F25	Low Relief	2015	28.166290	-94.293310	0.25
F26	Low Relief	2015	28.164270	-94.298730	1.90
F27	Low Relief	2015	28.166710	-94.292860	0.00
F28	Low Relief	2015	28.165410	-94.296160	0.12
F29	Low Relief	2015	28.165810	-94.297040	0.92
F30	Low Relief	2015	28.165870	-94.295000	0.37
F31	Low Relief	2015	28.166210	-94.294310	2.94
F32	Low Relief	2015	28.165840	-94.294650	1.78
F33	Low Relief	2015	28.166080	-94.296390	0.49
P22	High Relief	2015	28.164450	-94.298870	1.23
P13	High Relief	2015	28.164710	-94.298740	3.68
P14	High Relief	2015	28.166780	-94.295630	0.00
P15	High Relief	2015	28.166150	-94.296700	2.63
P16	High Relief	2015	28.164060	-94.298830	2.02
P17	High Relief	2015	28.166000	-94.297860	0.25
P18	High Relief	2015	28.165440	-94.298160	1.29
P21	High Relief	2015	28.166310	-94.296270	1.65
F41	Low Relief	2016	28.164360	-94.298590	0.00
F42	Low Relief	2016	28.164680	-94.298330	0.00
F43	Low Relief	2016	28.165680	-94.296640	0.00
F44	Low Relief	2016	28.165660	-94.296130	0.00
F45	Low Relief	2016	28.166260	-94.296090	0.00
F46	Low Relief	2016	28.165360	-94.297170	0.00
F47	Low Relief	2016	28.165080	-94.297980	0.49
F48	Low Relief	2016	28.166730	-94.293400	0.98
F49	Low Relief	2016	28.166970	-94.294740	0.00
F50	Low Relief	2016	28.166540	-94.293630	0.12
F52	Low Relief	2016	28.165240	-94.298120	0.12
F53	Low Relief	2016	28.165840	-94.294170	0.12
F54	Low Relief	2016	28.167250	-94.293330	0.00
F55	Low Relief	2016	28.166710	-94.294440	0.12
F56	Low Relief	2016	28.166980	-94.293290	0.12
F57	Low Relief	2016	28.166030	-94.294410	0.12
F58	Low Relief	2016	28.166670	-94.294120	0.00
F59	Low Relief	2016	28.165470	-94.296620	0.00
F60	Low Relief	2016	28.166040	-94.295390	0.25
F62	Low Relief	2016	28.164910	-94.297220	0.00
P30	Low Relief	2016	28.164700	-94.297210	0.00
P23	High Relief	2016	28.165770	-94.293820	0.00
P24	High Relief	2016	28.165810	-94.297800	1.59
P25	High Relief	2016	28.166700	-94.295620	1.96
P27	High Relief	2016	28.164270	-94.299190	0.37
P28	High Relief	2016	28.167310	-94.294350	1.72
P29	High Relief	2016	28.166040	-94.297200	1.23
P31	High Relief	2016	28.164990	-94.298580	0.00
P32	High Relief	2016	28.165970	-94.296720	2.94
P34	High Relief	2016	28.166220	-94.297400	1.10
P35	High Relief	2016	28.166310	-94.295460	0.86
F63	Low Relief	2017	28.165180	-94.297530	0.00
F64	Low Relief	2017	28.165170	-94.296400	0.12
F67	Low Relief	2017	28.165990	-94.296160	0.00
F68	Low Relief	2017	28.165570	-94.297570	0.00
F69B	Low Relief	2017	28.164790	-94.297860	0.61
F70	Low Relief	2017	28.165710	-94.295190	0.00
F71	Low Relief	2017	28.166540	-94.293820	0.00
F74	Low Relief	2017	28.167160	-94.293970	0.00
F75B	Low Relief	2017	28.165470	-94.296490	0.00
F79	Low Relief	2017	28.166580	-94.293180	0.00
F83	Low Relief	2017	28.167150	-94.293430	0.00
F84	Low Relief	2017	28.164600	-94.298670	0.00
P36	Low Relief	2017	28.166180	-94.295210	0.12
P37	Low Relief	2017	28.166430	-94.296280	0.00
P38	Low Relief	2017	28.166290	-94.297850	0.00
P39	High Relief	2017	28.166060	-94.297940	0.74
P40	High Relief	2017	28.165020	-94.298720	0.37
P41	High Relief	2017	28.166500	-94.295920	0.00
P42	High Relief	2017	28.167000	-94.294050	0.98
P43	High Relief	2017	28.166550	-94.296630	1.96
P44	High Relief	2017	28.164780	-94.297080	0.00
P45	High Relief	2017	28.166240	-94.296610	0.49
P48	High Relief	2017	28.166390	-94.295560	0.00
F96	Low Relief	2018	28.167010	-94.293950	0.00
F93	Low Relief	2018	28.165740	-94.297350	0.49
F89	Low Relief	2018	28.167390	-94.293430	0.00
F86	Low Relief	2018	28.164920	-94.297570	0.00
F85	Low Relief	2018	28.165280	-94.298030	0.00
F101	Low Relief	2018	28.165770	-94.296590	0.00
F100	Low Relief	2018	28.165210	-94.297000	0.00
F104	Low Relief	2018	28.166550	-94.293400	0.00
F91	Low Relief	2018	28.166490	-94.295150	0.00
F98	Low Relief	2018	28.165700	-94.295550	2.57
F88	Low Relief	2018	28.166260	-94.293860	0.00
F92	Low Relief	2018	28.166750	-94.295340	0.00
F97	Low Relief	2018	28.165990	-94.296600	0.00
P51	High Relief	2018	28.165690	-94.296020	0.25
P53	High Relief	2018	28.166350	-94.295740	3.55
P57	High Relief	2018	28.164690	-94.297290	0.00
P58	High Relief	2018	28.166630	-94.295960	2.21
P59	High Relief	2018	28.167320	-94.294670	2.21
P60	High Relief	2018	28.167030	-94.294590	0.61
P61	High Relief	2018	28.165950	-94.298140	0.74

Appendix 9. *Diadema antillarum* density in bank crest nocturnal surveys, 2015–2018.

Sample	Year	Density (m2)
B1-B2	2015	0.55
B2-B3	2015	1.11
B3-Pin 27	2015	0.83
B1-B2	2016	0.51
B2-B3	2016	1.54
B3-Pin 27	2016	0.85
B1-B2	2017	0.60
B2-B3	2017	1.19
B3-Pin 27	2017	0.76

Appendix 10. Proposal to alter data collection of shallow fish census.

Proposal to Alter Data Collection of Shallow Fish Census
Stetson Bank Long-Term Monitoring
E14PG00052

Purpose

This document proposes to alter the location of shallow reef fish surveys at Stetson Bank. The current interagency agreement between BSEE and FGBNMS identifies that twelve surveys are to be conducted from the permanent mooring buoys used to access repetitive photostations, in addition to the fifteen surveys that are conducted in conjunction with random transects in pre-defined habitats. Following two years of data collection, statistical analysis shows that surveys conducted from the permanent mooring buoys possess a similar community structure to surveys conducted in conjunction with random transects in high relief habitat. FGBNMS proposes discontinuing the twelve surveys that are from the permanent mooring buoys, and re-allocate these surveys to be conducted conjunction with random transects, maintaining sampling effort.

Background

Fish communities are considered indicators of ecosystem health (Sale 1991) and are therefore an important component in long-term monitoring programs. Monitoring fish communities over time will provide a baseline against which to measure change and evaluate community response to disturbance and change.

Fish census methods at Stetson Bank have varied over time. Since 2012, modified Bohnsack-Bannerot (1986) surveys have been conducted annually as part of long-term monitoring at Stetson Bank. However, these surveys, referred to as Buoy surveys henceforth, were initially conducted exclusively from permanent mooring buoys (#1, #2, and #3), where starting locations were determined using a random heading and kick cycle. Permanent mooring buoy U-bolts were selectively located in low relief habitat, near high relief features (Figure 1).

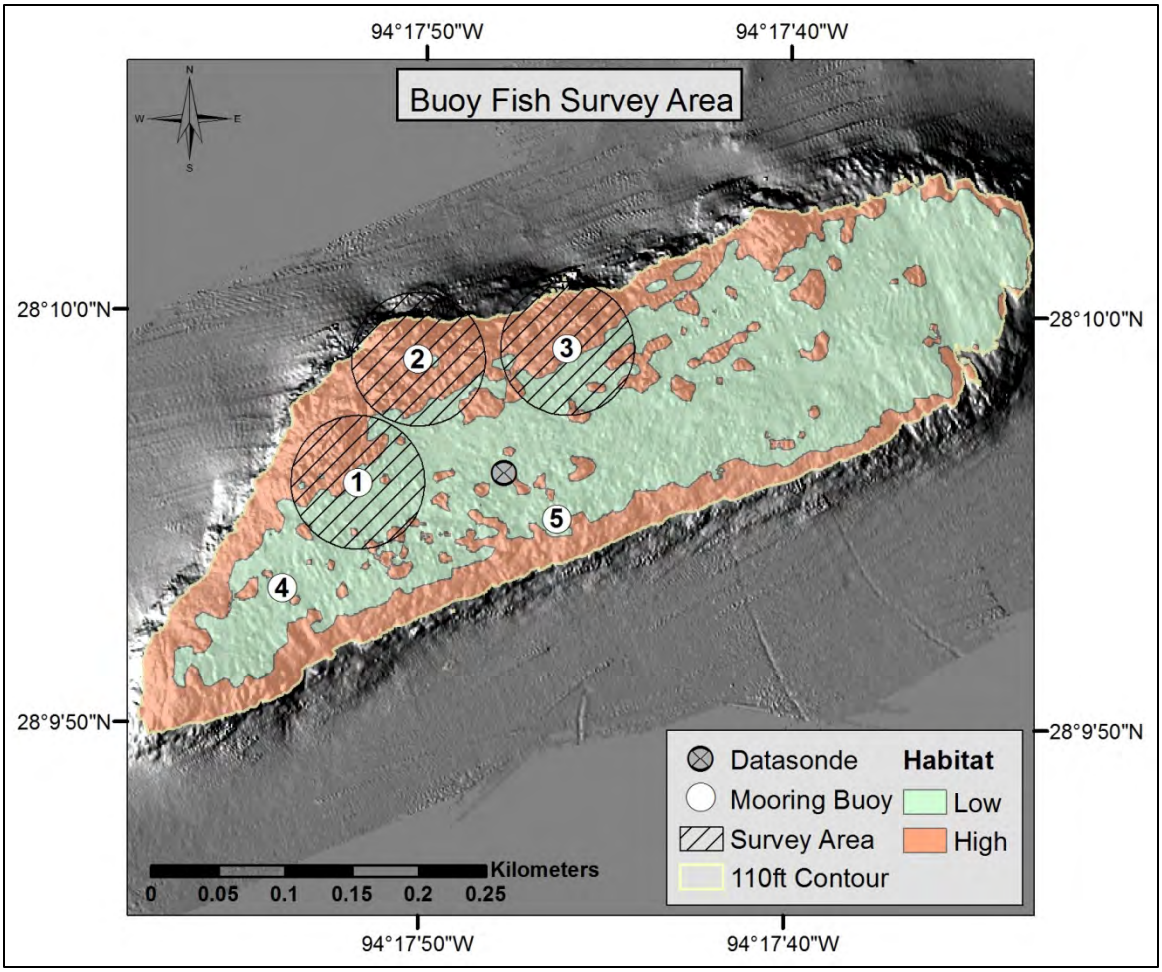

Figure A10.1. Potential area surveyed in fish surveys conducted from the permanent mooring buoys 2012–2015.

In 2014, additional modified Bohnsack-Bannerot (1986) surveys were added to the annual monitoring effort using a stratified random sampling design between multiple habitats. Two habitats were identified using 1 m^2 resolution bathymetric data: high and low relief. High relief habitat possess >1.1 m relief while low relief habitat possess <1 m. Surveys were proportionally distributed between available area in each habitat. These surveys were conducted over the entire reef crest, limited to depths shallower than 33.5 m.

Sampling methods for shallow fish census in the interagency agreement were designed to continue to improve the data quality and applicability of the data to the entire reef, while maintaining old methods to allow for sufficient data collection to test the need for all three areas to be sampled.

Two datasets, comprised of 106 samples each (Table 1), were analyzed: density and presence. Density data was dispersion weighted and square root transformed and presence data was generated by transforming density to presence and absence. Bray-Curtis (1957) resemblance matrices were generated for each dataset. The effect of Sample Area (Buoy, High Relief, and Low Relief) and Year (2012–2015) were tested on the resemblance matrices using non-parametric two-way PERMANOVA (Anderson et al. 2008) in PRIMER V7 (Clarke and Gorley 2015).

No significant dissimilarities were found in the interaction of Year and Sample Area. However, both Year and Sample Area were found to be significantly different for density (pseudo-F=5.8013, p=0.001; pseudo-F=2.9953, p=0.001, respectively) and presence (pseudo-F=5.8494, p=0.001; pseudo-F= 3.3036, p=0.001, respectively) data. Pairwise analysis of Sample Area revealed that significantly different fish communities occurred between High Relief and Low Relief in both density (t=1.74, p=0.001) and presence (t= 1.8096, p=0.001) data, and between Buoy and Low Relief in both density (t=2.1348, p=0.001) and presence (t= 2.2677, p=0.001) data. No significant difference was found between Buoy and High Relief in both density and presence data. Results from this analysis indicate that historical Buoy surveys do not possess a unique fish community and can be combined with High Relief surveys for future analysis.

Table A10.1. Number of surveys conducted by year and survey area.

Area	Year			
	2012	2013	2014	2015
Buoy	17	15	19	18
Low Relief	-	-	11	13
High Relief	-	-	5	8

The re-allocation of these surveys to increase the number of surveys proportionally distributed between high and low relief habitat, randomly distributed over the reef crest, will allow for maintained sampling effort with minimal effect on field time. As the current the interagency agreement calls for 30 random transects to be conducted annually, matching the number of fish surveys to the random transects they are performed alongside would be sensible and require minimal additional effort (the addition of 3 surveys).

Problem Summary

The current method for collecting shallow fish census data in the interagency agreement samples multiple locations (buoy, high relief, and low relief) which do not all possess unique fish communities.

Proposed Resolution

Discontinuation of the twelve surveys conducted from permanent mooring buoys used to access repetitive photostations, and re-allocation of these surveys to be conducted in conjunction with random transects, maintaining sampling effort, will result in an annual minimum of 30 fish census surveys, proportionally distributed between high and low relief habitat, randomly distributed over the reef crest. Historical surveys conducted from permanent mooring buoys can be used in long-term analyses as high relief surveys.

References

Anderson MJ, Gorley RN, Clarke KR (2008) PERMANOVA+ for PRIMER: guide to software and statistical methods. PRIMER-E Ltd.

Bohnsack JA, Bannerot SP (1986) A stationary visual census technique for quantitatively assessing community structure of coral reef fishes. NOAA Technical Report NMFS 41. 15pp.

Bray JR, Curtis JT (1957) An ordination of upland forest communities of southern Wisconsin. Ecological Monographs 27:325–349.

Clarke KR, Gorley RN (2015) PRIMER v7: User Manual/Tutorial. PRIMER-E Ltd. 296pp.

Sale PF (1991) The ecology of fishes on coral reefs. Academic Press, Inc. 754 pp.

Appendix 11. Bark-crest fish density, 2015-2018.

| Latin Name | Common Name | Trophic Group | Family | 2015 Siliquan Marsh Tows Bark-Crest Fish 1 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 2 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 3 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 4 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 5 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 6 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 7 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 8 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 9 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 10 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 11 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 12 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 13 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 14 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 15 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 16 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 17 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 18 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 19 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 20 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 21 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 22 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 23 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 24 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 25 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 26 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 27 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 28 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 29 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 30 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 31 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 32 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 33 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 34 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 35 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 36 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 37 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 38 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 39 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 40 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 41 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 42 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 43 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 44 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 45 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 46 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 47 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 48 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 49 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 50 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 51 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 52 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 53 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 54 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 55 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 56 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 57 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 58 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 59 (1-18A-N-N1D0F0S0) | 2015 Siliquan Marsh Tows Bark-Crest Fish 60 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 1 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 2 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 3 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 4 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 5 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 6 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 7 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 8 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 9 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 10 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 11 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 12 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 13 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 14 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 15 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 16 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 17 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 18 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 19 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 20 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 21 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 22 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 23 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 24 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 25 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 26 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 27 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 28 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 29 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 30 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 31 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 32 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 33 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 34 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 35 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 36 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 37 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 38 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 39 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 40 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 41 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 42 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 43 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 44 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 45 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 46 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 47 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 48 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 49 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 50 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 51 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 52 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 53 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 54 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 55 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 56 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 57 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 58 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 59 (1-18A-N-N1D0F0S0) | 2016 Siliquan Marsh Tows Bark-Crest Fish 60 (1-18A-N-N1D0F0S0) |
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Appendix 12. Mesophotic fish density, 2015–2018.

| Latin Name | Common Name | Trophic Guild | Family | 2015-Stetson Bank-Ryan Eckert-MESO-RT-02-54-7/13/2015 | 2015-Stetson Bank-Laura Wendel-MESO-RT-03-43-7/13/2015 | 2015-Stetson Bank-Laura Wendel-MESO-RT-05-46-5-7/13/2015 | 2015-Stetson Bank-Marissa Nuttall-MESO-RT-06 8-57-7/13/2015 | 2015-Stetson Bank-Marissa Nuttall-MESO-RT-07-54-7/14/2015 | 2015-Stetson Bank-Marissa Nuttall-MESO-RT-09-52-7/13/2015 | 2015-Stetson Bank-Ryan Eckert-MESO-RT-10-40-7/13/2015 | 2015-Stetson Bank-Travis Sterne-MESO-RT-11-56-7/13/2015 | 2015-Stetson Bank-Ryan Eckert-MESO-RT-12-35-7/13/2015 | 2015-Stetson Bank-Marissa Nuttall-MESO-RT-13-34.5-7/13/2015 | 2015-Stetson Bank-Laura Wendel-MESO-RT-14-54-7/13/2015 | 2015-Stetson Bank-Marissa Nuttall-MESO-RT-16-42-7/13/2015 | 2015-Stetson Bank-Laura Wendel-MESO-RT-19-37.8-7/13/2015 | 2015-Stetson Bank-Laura Wendel-MESO-RT-21-46-7/13/2015 | 2015-Stetson Bank-Travis Sterne-MESO-RT-22-50-7/13/2015 | 2015-Stetson Bank-Laura Wendel-MESO-RT-25-40-7/13/2015 | 2015-Stetson Bank-Laura Wendel-MESO-RT-29-42.9-7/13/2015 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-2-39-09/11/2016 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-3-35-09/11/2016 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-4-42-09/11/2016 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-10-40-09/11/2016 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-11-46-09/11/2016 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-18-39-09/11/2016 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-19-42-09/11/2016 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-22-45-09/11/2016 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-24-41-09/11/2016 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-25-41-09/11/2016 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-27-42-09/11/2016 | 2016-Stetson Bank-Travis Sterne-MESO-RT-1-55-09/11/2016 | 2016-Stetson Bank-Travis Sterne-MESO-RT-5-57-09/11/2016 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-6-44-09/11/2016 | 2016-Stetson Bank-Travis Sterne-MESO-RT-12-52-09/11/2016 | 2016-Stetson Bank-Travis Sterne-MESO-RT-14-56-09/11/2016 | 2016-Stetson Bank-Travis Sterne-MESO-RT-17-53-09/11/2016 | 2016-Stetson Bank-Travis Sterne-MESO-RT-23-53-09/11/2016 | 2016-Stetson Bank-Travis Sterne-MESO-RT-30-54-09/11/2016 | 2016-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT--1-50-10/15/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT--2-54-10/15/2017 | 2017-Stetson Bank-Dustin/Marissa/Jason-MESO-RT--4-39-10/14/2017 | 2017-Stetson Bank-Marissa Nuttall-MESO-RT--6-56-10/14/2017 | 2017-Stetson Bank-Marissa/Jason-MESO-RT--7-45-10/14/2017 | 2017-Stetson Bank-Jason Mostowy-MESO-RT--9-54-10/14/2017 | 2017-Stetson Bank-Marissa/Emily/Jason-MESO-RT--11-40-10/14/2017 | 2017-Stetson Bank-Marissa/Emily/Jason-MESO-RT--12-43-10/14/2017 | 2017-Stetson Bank-Marissa/Emily/Jason-MESO-RT--13-50-10/14/2017 | 2017-Stetson Bank-Marissa/Emily/Jason-MESO-RT--14-39-10/14/2017 | 2017-Stetson Bank-Marissa/Jason-MESO-RT--15-40-10/14/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT--16-52-10/15/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT--17-52-10/15/2017 | 2017-Stetson Bank-Dustin/Marissa/Jason-MESO-RT--18-40-10/14/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT--19-52-10/15/2017 | 2017-Stetson Bank-Marissa/Emily/Jason-MESO-RT--20-44-10/14/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT--23-56-10/15/2017 | 2017-Stetson Bank-Marissa/Emily/Jason-MESO-RT--24-44-10/14/2017 | 2017-Stetson Bank-Marissa/Emily/Jason-MESO-RT--25-44-10/14/2017 | 2017-Stetson Bank-Marissa/Emily/Jason-MESO-RT--26-35-10/14/2017 | 2017-Stetson Bank-Jason Mostowy-MESO-RT--30-54-10/14/2017 | DFH36-Dive-648-Transect1 | DFH36-Dive-648-Transect4 | DFH36-Dive-648-Transect5 | DFH36-Dive-648-Transect7 | DFH36-Dive-646-Transect8 | DFH36-Dive-644-Transect9 | DFH36-Dive-642-Transect10 | DFH36-Dive-644-Transect11 | DFH36-Dive-642-Transect12 | DFH36-Dive-644-Transect14 | DFH36-Dive-644-Transect15 | DFH36-Dive-645-Transect16 | DFH36-Dive-642-Transect17 | DFH36-Dive-642-Transect18 | DFH36-Dive-642-Transect19 | DFH36-Dive-642-Transect21 | DFH36-Dive-642-Transect22 | DFH36-Dive-643-Transect24 | DFH36-Dive-643-Transect25 | DFH36-Dive-643-Transect26 | DFH36-Dive-643-Transect27 | DFH36-Dive-643-Transect28 | DFH36-Dive-643-Transect29 |
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Appendix 13. Bank crest fish biomass, 2015–2018

| Latin Name | Common Name | Trophic Group | Family | 2015 Blenniidae Nature Trends Transect 01 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 02 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 03 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 04 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 05 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 06 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 07 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 08 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 09 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 10 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 11 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 12 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 13 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 14 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 15 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 16 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 17 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 18 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 19 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 20 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 21 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 22 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 23 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 24 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 25 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 26 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 27 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 28 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 29 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 30 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 31 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 32 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 33 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 34 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 35 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 36 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 37 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 38 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 39 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 40 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 41 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 42 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 43 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 44 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 45 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 46 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 47 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 48 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 49 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 50 L-100-R 4/4/2015 | 2015 Blenniidae Nature Trends Transect 51 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 52 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 53 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 54 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 55 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 56 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 57 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 58 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 59 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 60 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 61 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 62 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 63 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 64 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 65 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 66 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 67 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 68 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 69 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 70 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 71 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 72 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 73 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 74 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 75 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 76 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 77 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 78 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 79 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 80 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 81 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 82 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 83 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 84 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 85 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 86 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 87 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 88 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 89 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 90 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 91 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 92 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 93 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 94 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 95 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 96 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 97 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 98 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 99 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 100 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 101 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 102 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 103 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 104 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 105 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 106 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 107 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 108 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 109 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 110 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 111 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 112 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 113 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 114 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 115 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 116 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 117 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 118 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 119 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 120 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 121 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 122 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 123 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 124 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 125 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 126 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 127 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 128 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 129 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 130 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 131 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 132 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 133 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 134 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 135 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 136 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 137 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 138 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 139 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 140 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 141 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 142 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 143 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 144 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 145 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 146 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 147 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 148 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 149 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 150 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 151 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 152 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 153 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 154 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 155 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 156 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 157 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 158 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 159 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 160 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 161 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 162 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 163 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 164 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 165 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 166 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 167 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 168 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 169 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 170 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 171 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 172 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 173 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 174 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 175 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 176 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 177 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 178 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 179 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 180 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 181 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 182 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 183 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 184 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 185 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 186 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 187 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 188 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 189 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 190 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 191 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 192 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 193 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 194 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 195 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 196 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 197 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 198 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 199 L-100-R 5/4/2015 | 2015 Blenniidae Nature Trends Transect 200 L-100-R 5/4/2015 |
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Appendix 14. Mesophotic fish biomass, 2015–2018.

| Latin Name | Common Name | Trophic Guild | Family | 2015-Stetson Bank-Ryan Eckert-MESO-RT-02-54-7/13/2015 | 2015-Stetson Bank-Laura Wendell-MESO-RT-03-43-7/13/2015 | 2015-Stetson Bank-Marissa Nuttall-MESO-RT-06-46-7/13/2015 | 2015-Stetson Bank-Marissa Nuttall-MESO-RT-06-8-57-7/13/2015 | 2015-Stetson Bank-Marissa Nuttall-MESO-RT-07-54-7/14/2015 | 2015-Stetson Bank-Ryan Eckert-MESO-RT-09-52-7/13/2015 | 2015-Stetson Bank-Ryan Eckert-MESO-RT-10-40-7/13/2015 | 2015-Stetson Bank-Travis Sterne-MESO-RT-11-56-7/13/2015 | 2015-Stetson Bank-Travis Sterne-MESO-RT-12-35-7/13/2015 | 2015-Stetson Bank-Ryan Eckert-MESO-RT-13-34-5-7/13/2015 | 2015-Stetson Bank-Laura Wendell-MESO-RT-13-44-7/13/2015 | 2015-Stetson Bank-Marissa Nuttall-MESO-RT-14-54-7/13/2015 | 2015-Stetson Bank-Laura Wendell-MESO-RT-16-42-7/13/2015 | 2015-Stetson Bank-Laura Wendell-MESO-RT-19-37-8-7/13/2015 | 2015-Stetson Bank-Laura Wendell-MESO-RT-21-46-7/13/2015 | 2015-Stetson Bank-Travis Sterne-MESO-RT-22-50-7/13/2015 | 2015-Stetson Bank-Laura Wendell-MESO-RT-23-40-7/13/2015 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-2-39-09/11/2016 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-3-35-09/11/2016 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-4-42-09/11/2016 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-5-46-09/11/2016 | 2016-Stetson Bank-Michelle Johnston-MESO-RT-6-44-09/11/2016 | 2016-Stetson Bank-Travis Sterne-MESO-RT-7-55-09/11/2016 | 2016-Stetson Bank-Travis Sterne-MESO-RT-8-56-09/11/2016 | 2016-Stetson Bank-Travis Sterne-MESO-RT-9-54-10/14/2017 | 2016-Stetson Bank-Travis Sterne-MESO-RT-11-40-10/14/2017 | 2016-Stetson Bank-Travis Sterne-MESO-RT-12-43-10/14/2017 | 2016-Stetson Bank-Travis Sterne-MESO-RT-13-49-10/14/2017 | 2016-Stetson Bank-Travis Sterne-MESO-RT-14-59-10/14/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-1-50-10/15/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-2-54-10/15/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-4-39-10/14/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-5-56-10/14/2017 | 2017-Stetson Bank-Marissa/Jason-Mestavey-MESO-RT-7-45-10/14/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-8-54-10/14/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-11-40-10/14/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-12-43-10/14/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-13-49-10/14/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-14-59-10/14/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-15-40-10/14/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-16-52-10/15/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-17-52-10/15/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-18-40-10/14/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-19-52-10/15/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-20-44-10/14/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-23-56-10/15/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-24-44-10/14/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-25-44-10/14/2017 | 2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT-26-35-10/14/2017 | 2017-Stetson Bank-Jason Mestavey-MESO-RT-30-54-10/14/2017 | 2018-Stetson Bank-645-Transect1 | 2018-Stetson Bank-648-Transect4 | 2018-Stetson Bank-648-Transect5 | 2018-Stetson Bank-648-Transect7 | 2018-Stetson Bank-648-Transect8 | 2018-Stetson Bank-644-Transect9 | 2018-Stetson Bank-643-Transect10 | 2018-Stetson Bank-644-Transect11 | 2018-Stetson Bank-642-Transect12 | 2018-Stetson Bank-644-Transect14 | 2018-Stetson Bank-644-Transect15 | 2018-Stetson Bank-645-Transect16 | 2018-Stetson Bank-642-Transect17 | 2018-Stetson Bank-642-Transect18 | 2018-Stetson Bank-642-Transect19 | 2018-Stetson Bank-642-Transect21 | 2018-Stetson Bank-642-Transect22 | 2018-Stetson Bank-643-Transect24 | 2018-Stetson Bank-643-Transect25 | 2018-Stetson Bank-643-Transect26 | 2018-Stetson Bank-643-Transect27 | 2018-Stetson Bank-643-Transect28 | 2018-Stetson Bank-643-Transect29 |
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Appendix 15. All fish size data, 2015–2018.

Sample	<5	5-10	10-15	15-20	20-25	25-30	30-35	>35	Sum	Habitat	Year	Type	PIN
2015-Stetson Bank-Travis Sterne-Buoy #1-1-140-74-6/23/2015	379	20	4	0	4	2	12	1	422	High	2015	Buoy	-
2015-Stetson Bank-Travis Sterne-Buoy #1-2-330-74-6/23/2015	186	43	4	2	2	2	0	0	239	High	2015	Buoy	-
2015-Stetson Bank-Michelle Johnston-Buoy #1-1-319-74-6/23/2015	244	4	4	2	1	2	0	0	257	High	2015	Buoy	-
2015-Stetson Bank-Michelle Johnston-Buoy #1-2-310-75-6/23/2015	131	4	2	1	1	0	1	0	140	High	2015	Buoy	-
2015-Stetson Bank-John Embesi-Buoy #1-1-60-65-6/23/2015	748	60	12	8	3	33	8	26	898	High	2015	Buoy	-
2015-Stetson Bank-Ryan Eckert-Buoy #1-1-230-60-6/23/2015	589	48	13	12	15	23	19	10	729	High	2015	Buoy	-
2015-Stetson Bank-Marissa Nuttall-Buoy #2-1-325-81-6/24/2015	733	15	11	12	22	1	1	0	795	High	2015	Buoy	-
2015-Stetson Bank-Travis Sterne-Buoy #2-1-120-82-6/24/2015	383	148	4	2	29	0	1	3	570	High	2015	Buoy	-
2015-Stetson Bank-Marissa Nuttall-Buoy #3-2-300-80-6/25/2015	153	6	5	4	1	0	0	0	169	High	2015	Buoy	-
2015-Stetson Bank-Travis Sterne-Buoy #3-1-100-75-6/25/2015	258	37	4	1	2	0	0	0	302	High	2015	Buoy	-
2015-Stetson Bank-Travis Sterne-Buoy #3-2-10-72-6/25/2015	270	26	3	1	3	1	0	0	304	High	2015	Buoy	-
2015-Stetson Bank-Michelle Johnston-Buoy #3-1-303-65-6/25/2015	491	16	5	1	2	1	0	1	517	High	2015	Buoy	-
2015-Stetson Bank-Michelle Johnston-Buoy #3-2-179-74-6/25/2015	238	24	1	1	1	0	0	0	265	High	2015	Buoy	-
2015-Stetson Bank-Marissa Nuttall-Buoy #3-1-85-73-6/25/2015	494	21	44	6	5	2	3	1	576	High	2015	Buoy	-
2015-Stetson Bank-Ryan Eckert-Buoy #2-1-180-67-6/24/2015	579	142	3	4	1	9	5	1	745	High	2015	Buoy	-
2015-Stetson Bank-Ryan Eckert-Buoy #2-2-250-70-6/24/2015	503	48	2	27	2	14	1	5	602	High	2015	Buoy	-
2015-Stetson Bank-John Embesi-Buoy #2-1-62-79-6/24/2015	212	10	2	5	2	11	151	10	393	High	2015	Buoy	-
2015-Stetson Bank-John Embesi-Buoy #2-2-48-70-6/24/2015	626	147	1	1	1	49	64	2	891	High	2015	Buoy	-
2015-Stetson Bank-Marissa Nuttall-F24-307-87-6/22/2015	68	56	19	12	2	2	0	3	162	Low	2015	Random	-
2015-Stetson Bank-Ryan Eckert-F27-0-105-66-6/22/2015	126	6	5	1	1	12	0	1	152	Low	2015	Random	-
2015-Stetson Bank-Ryan Eckert-F21-0-90-6/22/2015	192	30	2	1	6	0	2	1	234	Low	2015	Random	-
2015-Stetson Bank-Michelle Johnston-F25-48-93-6/22/2015	100	7	1	3	0	5	0	1	117	Low	2015	Random	-
2015-Stetson Bank-Michelle Johnston-F30-187-84-6/22/2015	136	24	7	12	1	2	0	0	182	Low	2015	Random	-
2015-Stetson Bank-Travis Sterne-F23-60-95-6/22/2015	148	55	5	4	8	4	4	0	228	Low	2015	Random	-
2015-Stetson Bank-Travis Sterne-F28-230-76-6/22/2015	104	36	0	7	5	0	3	1	156	Low	2015	Random	-
2015-Stetson Bank-Marissa Nuttall-F22-42-80-6/22/2015	117	63	6	7	0	0	1	1	195	Low	2015	Random	-
2015-Stetson Bank-Michelle Johnston-F26-275-80-6/22/2015	326	31	5	1	3	2	7	5	380	Low	2015	Random	-
2015-Stetson Bank-Travis Sterne-F29-0-77-6/22/2015	143	46	1	2	1	0	6	0	199	Low	2015	Random	-
2015-Stetson Bank-Michelle Johnston-F32-330-90-6/23/2015	309	10	4	3	4	3	0	1	334	Low	2015	Random	-
2015-Stetson Bank-Travis Sterne-F31-240-94-6/23/2015	52	57	4	0	0	1	0	0	114	Low	2015	Random	-
2015-Stetson Bank-Travis Sterne-F33-125-79-6/25/2015	149	60	3	0	1	0	0	0	213	Low	2015	Random	-
2015-Stetson Bank-Marissa Nuttall-P17-68-56-6/22/2015	725	34	73	12	2	4	20	8	878	Low	2015	Random	-
2015-Stetson Bank-Michelle Johnston-P15-331-75-6/22/2015	251	18	4	1	2	1	25	3	305	High	2015	Random	-
2015-Stetson Bank-Travis Sterne-P16-50-80-6/22/2015	84	490	4	2	1	4	4	3	592	High	2015	Random	-
2015-Stetson Bank-Marissa Nuttall-P22-50-80-6/22/2015	278	6	3	9	2	0	2	1	301	High	2015	Random	-
2015-Stetson Bank-Ryan Eckert-P14-100-85-6/22/2015	185	10	0	0	0	10	4	3	212	High	2015	Random	-
2015-Stetson Bank-Ryan Eckert-P13-60-82-6/22/2015	152	34	0	0	6	6	1	1	200	High	2015	Random	-
2015-Stetson Bank-Michelle Johnston-P21-332-70-6/25/2015	373	13	1	2	0	2	5	1	397	High	2015	Random	-
2015-Stetson Bank-Ryan Eckert-P18-160-73-6/26/2015	694	26	3	14	0	0	2	2	741	High	2015	Random	-
Stetson-LTM 2016-Marissa Nuttall-P28	385	33	12	11	3	4	2	2	452	High	2016	Random	-
Stetson-LTM 2016-Michelle Johnston-P23	229	10	9	50	3	1	2	0	304	High	2016	Random	-
Stetson-LTM 2016-Travis Sterne-P25	772	360	27	7	10	15	2	1	1194	High	2016	Random	-
Stetson-LTM 2016-Michelle Johnston-P35	637	11	5	10	1	1	2	0	667	High	2016	Random	-
Stetson-LTM 2016-Laura Wandel-P34	400	22	4	4	1	1	0	6	438	High	2016	Random	-
Stetson-LTM 2016-Rachel Susen-P29	31	75	14	1	0	1	0	38	160	High	2016	Random	-
Stetson-LTM 2016-Travis Sterne-P32	228	320	1	0	7	1	8	3	568	High	2016	Random	-
Stetson-LTM 2016-Marissa Nuttall-P24	218	22	5	110	2	2	4	2	365	High	2016	Random	-
Stetson-LTM 2016-Laura Wandel-P27	261	44	58	22	5	4	0	1	395	High	2016	Random	-
Stetson-LTM 2016-Rachel Susen-P31	100	48	0	0	3	0	0	0	151	High	2016	Random	-
Stetson-LTM 2016-Rachel Susen-P30	161	61	3	0	9	1	0	1	236	High	2016	Random	-
Stetson-LTM 2016-Michelle Johnston-F58	54	36	5	0	2	0	0	20	117	Low	2016	Random	-
Stetson-LTM 2016-Rachel Susen-F55	104	55	1	4	5	0	0	1	170	Low	2016	Random	-
Stetson-LTM 2016-Laura Wandel-F54	190	19	29	4	4	1	0	2	249	Low	2016	Random	-
Stetson-LTM 2016-Rachel Susen-F56	198	76	11	1	4	2	0	0	292	Low	2016	Random	-
Stetson-LTM 2016-Travis Sterne-F49	95	82	12	5	4	4	1	2	205	Low	2016	Random	-
Stetson-LTM 2016-Laura Wandel-F48	59	7	6	65	3	0	0	0	140	Low	2016	Random	-
Stetson-LTM 2016-Rachel Susen-F50	100	27	2	0	1	2	0	0	132	Low	2016	Random	-
Stetson-LTM 2016-Laura Wandel-F57	78	12	9	0	2	0	0	0	101	Low	2016	Random	-
Stetson-LTM 2016-Rachel Susen-F53	73	70	3	0	8	0	0	0	154	Low	2016	Random	-
Stetson-LTM 2016-Travis Sterne-F60	57	341	14	2	4	2	0	0	420	Low	2016	Random	-
Stetson-LTM 2016-Michelle Johnston-F45	385	25	6	1	1	0	1	12	431	Low	2016	Random	-
Stetson-LTM 2016-Michelle Johnston-F46	265	3	11	3	0	2	2	2	288	Low	2016	Random	-
Stetson-LTM 2016-Michelle Johnston-F52	100	4	2	1	1	1	1	0	110	Low	2016	Random	-
Stetson-LTM 2016-Travis Sterne-F47	232	176	1	1	3	2	2	0	417	Low	2016	Random	-
Stetson-LTM 2016-Michelle Johnston-F44	161	14	2	1	2	0	0	1	181	Low	2016	Random	-
Stetson-LTM 2016-Rachel Susen-F42	144	19	0	2	2	1	0	0	168	Low	2016	Random	-
Stetson-LTM 2016-Laura Wandel-F41	55	41	0	11	4	0	0	2	113	Low	2016	Random	-
Stetson-LTM 2016-Travis Sterne-F43	31	308	26	7	1	0	2	7	382	Low	2016	Random	-
Stetson-LTM 2016-Michelle Johnston-F59	400	3	0	8	0	1	1	0	413	Low	2016	Random	-
Stetson-LTM 2017-Laura Wandel-F62	182	12	20	4	1	0	0	0	219	Low	2016	Random	-
Stetson-LTM 2016-Laura Wandel-PIN20	678	16	3	100	1	0	0	0	798	High	2016	Repetitive	PIN20
Stetson-LTM 2016-Laura Wandel-PIN50	787	107	2	5	2	0	0	2	905	High	2016	Repetitive	PIN50
Stetson-LTM 2016-Marissa Nuttall-PIN45	375	102	12	3	5	0	2	0	499	High	2016	Repetitive	PIN45
Stetson-LTM 2016-Marissa Nuttall-PIN19	184	95	5	10	7	2	0	0	303	High	2016	Repetitive	PIN19
Stetson-LTM 2016-Rachel Susen-PIN27	87	90	7	24	3	1	1	0	213	High	2016	Repetitive	PIN27
Stetson-LTM 2016-Marissa Nuttall-PIN73	357	60	52	65	2	1	0	0	537	High	2016	Repetitive	PIN73
Stetson-LTM-2017-Raven Walker-P37	567	229	103	54	7	3	2	0	965	High	2017	Random	-
Stetson-LTM-2017-Nicole Morgan-P40	0	0	0	0	0	0	0	0	0	High	2017	Random	-
Stetson-LTM-2017-Nicole Morgan-P45	245	224	4	2	0	1	0	5	481	High	2017	Random	-
Stetson-LTM-2017-Marissa Nuttall-P37	323	19	5	25	20	1	5	5	403	High	2017	Random	-
Stetson-LTM-2017-Marissa Nuttall-P38	490	43	4	1	3	1	3	0	545	High	2017	Random	-
Stetson-LTM-2017-Amie Hufton-F83	44	2	4	0	0	1	4	5	60	High	2017	Random	-
Stetson-LTM-2017-Marissa Nuttall-P48	209	9	4	6	9	12	0	0	249	High	2017	Random	-
Stetson-LTM-2017-Amie Hufton-P36	725	46	0	0	5	0	0	4	780	High	2017	Random	-
Stetson-LTM-2017-Kaitlin Buhler-P43	583	11	167	13	9	0	0	3	786	High	2017	Random	-
Stetson-LTM-2017-Kaitlin Buhler-P46	1266	8	5	5	3	0	0	0	1287	High	2017	Random	-
Stetson-LTM-2017-Nicole Morgan-P44	209	4	9	0	1	9	0	16	248	High	2017	Random	-
Stetson-LTM-2017-Kaitlin Buhler-P42	1078	31	4	4	1	1	2	0	1121	High	2017	Random	-
Stetson-LTM-2017-Marissa Nuttall-F84	682	14	1	2	1	6	3	0	709	Low	2017	Random	-
Stetson-LTM-2017-Marissa Nuttall-F74	278	5	2	3	0	0	1	0	289	Low	2017	Random	-
Stetson-LTM-2017-Amie Hufton-F68	40	4	1	40	0	2	0	6	93	Low	2017	Random	-
Stetson-LTM-2017-Amie Hufton-P41	56	10	5	0	1	4	1	5	82	Low	2017	Random	-
Stetson-LTM-2017-Amie Hufton-F64	48	9	0	2	2	7	0	9	77	Low	2017	Random	-
Stetson-LTM-2017-Kaitlin Buhler-F69	563	29	5	11	3	2	0	2	615	Low	2017	Random	-
Stetson-LTM-2017-Kaitlin Buhler-F70	422	50	5	10	1	5	2	1	496	Low	2017	Random	-
Stetson-LTM-2017-Kaitlin Buhler-F71	143	27	3	8	4	0	0	14	199	Low	2017	Random	-
Stetson-LTM-2017-Nicole Morgan-F63	151	32	2	0	1	0	0	4	190	Low	2017	Random	-
Stetson-LTM-2017-Nicole Morgan-F79	248	5	0	1	1	0	0	3	258	Low	2017	Random	-
Stetson-LTM-2017-Marissa Nuttall-F75	102	13	11	1	2	0	2	0	131	Low	2017	Random	-
Stetson-LTM-2017-Raven Walker-F67	1083	18	3	2	0	0	0	0	1106	Low	2017	Random	-
Stetson-LTM-2017-Rachel Susen-F80	25	21	400	0	1	0	0	0	447	Low	2017	Random	-
Stetson-LTM-2017-Raven Walker-Pin 73	751	30	64	36	13	3	2	0	899	High	2017	Repetitive	PIN73
Stetson-LTM-2017-John Embesi-Pin 27	1208	390	115	7	16	216	36	12	1980	High	2017	Repetitive	PIN27
Stetson-LTM-2017-Amie Hufton-Tag 19	71	105	4	2	6	4	1	14	207	High	2017	Repetitive	PIN19
Stetson-LTM-2017-Amie Hufton-Tag 50	151	2	3	27	2	17	0	21	223	High	2017	Repetitive	PIN50
Stetson-LTM-2017-Nicole Morgan-PIN 20	340	108	7	8	0	354	3	0	820	High	2017	Repetitive	PIN20
Stetson-LTM-2017-Nicole Morgan-PIN 45	223	44	2	7	1	3	100	2	382	High	2017	Repetitive	PIN45
Stetson Bank Long-Term Monitoring 2018-Emma Hickerson-P59	1811	5	3	1	0	0	1	2	1823	High	2018	Random	-
Stetson Bank Long-Term Monitoring 2018-Emma Hickerson-P51	1189	4	4	4	1	3	1	2	1208	High	2018	Random	-
Stetson Bank Long-Term Monitoring 2018-John Embesi-P60	410	162	30	8	28	31	15	4	688	High	2018	Random	-
Stetson Bank Long-Term Monitoring 2018-John Embesi-P53	139	162	2	4	17	39	49	1	413	High	2018	Random	-
Stetson Bank Long-Term Monitoring 2018-Emma Hickerson-P61	3221	7	9	3	7	0	0	2	3249	High	2018	Random	-
Stetson Bank Long-Term Monitoring 2018-Vianne Eurestí-P57	138	7	12	1	1	0	0	0	159	High	2018	Random	-
Stetson Bank Long-Term Monitoring 2018-Marissa Nuttall-P58	229	4	11	6	1	5	7	1	264	High	2018	Random	-
Stetson Bank Long-Term Monitoring 2018-Emma Hickerson-F96	234	3	3	2	1	1	0	0	244	Low	2018	Random	-
Stetson Bank Long-Term Monitoring 2018-John Embesi-F104	243	94	7	19	1	12	67	3	446	Low	2018	Random	-
stetson Bank Long-Term Monitoring 2018-Emma Hickerson-F101	975	13	10	2	0	0	0	0	1000	Low	2018	Random	-
stetson Bank Long-Term Monitoring 2018-John Embesi-F89	520	14	2	2	7	16	3	2	566	Low	2018	Random	-
stetson Bank Long-Term Monitoring 2018-Emma Hickerson-F85	381	15	4	1	0	1	1	1	404	Low	2018	Random	-
stetson Bank Long-Term Monitoring 2018-Marissa Nuttall-F100	104	29	46	1	2	0	2	0	184	Low	2018	Random	-
stetson Bank Long-Term Monitoring 2018-Kelly Drinnen-P93	43	98	3	6	2	1	0	0	153	Low	2018	Random	-
stetson Bank Long-Term Monitoring 2018-Marissa Nuttall-F86	189	33	5	0	0	1	0	0	228	Low	2018	Random	-
stetson Bank Long-Term Monitoring 2018-John Embesi-F98	1860	31	3	17	17	32	10	1	1971	Low	2018	Random	-
stetson Bank Long-Term Monitoring 2018-Marissa Nuttall-F91	94	10	2	1	1	0	0	2	110	Low	2018	Random	-
stetson Bank Long-Term Monitoring 2018-Marissa Nuttall-F88	76	24	8	19	0	0	1	0	128	Low	2018	Random	-
stetson Bank Long-Term Monitoring 2018-Marissa Nuttall-F92	143	5	9	3	2	0	0	2	164	Low	2018	Random	-
stetson Bank Long-Term Monitoring 2018-Vianne Eurestí-F97	190	14	6	1	0	0	0	2	213	Low	2018	Random	-
stetson Bank Long-Term Monitoring 2018-Emma Hickerson-P19	1861	48	7	6	7	1	0	44	1974	High	2018	Repetitive	PIN19
stetson Bank Long-Term Monitoring 2018-Kelly Drinnen-Pin 50	126	241	106	17	10	3	6	1	510	High	2018	Repetitive	PIN50
2015-Stetson Bank-Ryan Eckert-MESO-RT-02-54-7/13/2015	0	4	20	0	2	0	5	0	31	DR	2015	ROV	-
2015-Stetson Bank-Laura Wendel-MESO-RT-03-43-7/13/2015	92	8	4	2	0	0	10	0	116	CR	2015	ROV	-
2015-Stetson Bank-Laura Wendel-MESO-RT-05-46.5-7/13/2015	300	7	21	6	6	29	1	11	381	CR	2015	ROV	-
2015-Stetson Bank-Marissa Nuttall-MESO-RT-06 B-57-7/13/2015	0	0	1	41	3	8	0	0	53	DR	2015	ROV	-
2015-Stetson Bank-Marissa Nuttall-MESO-RT-07-54-7/14/2015	5	1	2	37	25	12	54	0	136	DR	2015	ROV	-
2015-Stetson Bank-Marissa Nuttall-MESO-RT-09-52-7/13/2015	1	0	205	2	1	3	2	2	216	DR	2015	ROV	-
2015-Stetson Bank-Ryan Eckert-MESO-RT-10-40-7/13/2015	47	5	35	8	0	5	1	3	104	CR	2015	ROV	-
2015-Stetson Bank-Travis Sterne-MESO-RT-11-56-7/13/2015	30	2	7	173	3	5	0	5	225	DR	2015	ROV	-
2015-Stetson Bank-Ryan Eckert-MESO-RT-12-35-7/13/2015	27	0	10	5	28	3	3	3	79	CR	2015	ROV	-
2015-Stetson Bank-Laura Wendel-MESO-RT-13-34.5-7/13/2015	104	14	1	1	7	0	0	1	128	CR	2015	ROV	-
2015-Stetson Bank-Marissa Nuttall-MESO-RT-14-54-7/13/2015	2	2	9	228	4	19	0	0	264	DR	2015	ROV	-
2015-Stetson Bank-Laura Wendel-MESO-RT-16-42-7/13/2015	75	10	7	2	26	1	15	5	141	CR	2015	ROV	-
2015-Stetson Bank-Laura Wendel-MESO-RT-19-37.8-7/13/2015	97	7	6	9	4	17	0	0	140	CR	2015	ROV	-
2015-Stetson Bank-Laura Wendel-MESO-RT-21-46-7/13/2015	103	19	2	6	3	7	0	1	141	CR	2015	ROV	-
2015-Stetson Bank-Travis Sterne-MESO-RT-22-50-7/13/2015	28	10	11	1158	21	5	1	4	1258	DR	2015	ROV	-
2015-Stetson Bank-Laura Wendel-MESO-RT-25-40-7/13/2015	123	16	3	1	5	5	3	0	156	CR	2015	ROV	-
2015-Stetson Bank-Laura Wendel-MESO-RT-29-42.9-7/13/2015	93	5	2	8	1	0	3	0	112	CR	2015	ROV	-
2016-Stetson Bank-Michelle Johnston-MESO-RT-2-39-09/11/2016	131	38	13	3	2	2	107	0	296	CR	2016	ROV	-
2016-Stetson Bank-Michelle Johnston-MESO-RT-3-35-09/11/2016	63	14	4	2	1	4	0	0	88	CR	2016	ROV	-
2016-Stetson Bank-Michelle Johnston-MESO-RT-4-42-09/11/2016	216	143	16	0	3	5	17	0	404	CR	2016	ROV	-
2016-Stetson Bank-Michelle Johnston-MESO-RT-10-40-09/11/2016	426	32	17	2	5	10	1	1	494	CR	2016	ROV	-
2016-Stetson Bank-Michelle Johnston-MESO-RT-11-46-09/11/2016	237	42	8	6	4	1	1	0	299	CR	2016	ROV	-
2016-Stetson Bank-Michelle Johnston-MESO-RT-18-39-09/11/2016	260	83	9	4	4	2	10	2	374	CR	2016	ROV	-
2016-Stetson Bank-Michelle Johnston-MESO-RT-19-42-09/11/2016	257	11	14	2	8	1	1	0	294	CR	2016	ROV	-
2016-Stetson Bank-Michelle Johnston-MESO-RT-22-45-09/11/2016	247	10	21	1	1	5	2	0	287	CR	2016	ROV	-
2016-Stetson Bank-Michelle Johnston-MESO-RT-24-41-09/11/2016	170	38	7	3	3	130	7	4	362	CR	2016	ROV	-
2016-Stetson Bank-Michelle Johnston-MESO-RT-25-41-09/11/2016	814	9	7	3	3	0	5	0	841	CR	2016	ROV	-
2016-Stetson Bank-Michelle Johnston-MESO-RT-27-42-09/11/2016	115	6	17	1	0	0	0	1	140	CR	2016	ROV	-
2016-Stetson Bank-Travis Sterne-MESO-RT-1-55-09/11/2016	2	27	4	8	1	43	3	1	89	DR	2016	ROV	-
2016-Stetson Bank-Travis Sterne-MESO-RT-5-57-09/11/2016	3	1	0	0	4	0	3	0	11	DR	2016	ROV	-
2016-Stetson Bank-Michelle Johnston-MESO-RT-6-44-09/11/2016	93	84	6	2	0	4	39	0	228	DR	2016	ROV	-
2016-Stetson Bank-Travis Sterne-MESO-RT-12-52-09/11/2016	40	3	0	3	3	123	1	2	175	DR	2016	ROV	-
2016-Stetson Bank-Travis Sterne-MESO-RT-14-56-09/11/2016	10	3	2	10	8	1	1	0	35	DR	2016	ROV	-
2016-Stetson Bank-Travis Sterne-MESO-RT-17-53-09/11/2016	0	2	1	4	8	2	1	5	23	DR	2016	ROV	-
2016-Stetson Bank-Travis Sterne-MESO-RT-23-53-09/11/2016	51	0	0	3	8	151	0	0	213	DR	2016	ROV	-
2016-Stetson Bank-Travis Sterne-MESO-RT-30-54-09/11/2016	100	3	1	5	11	4	1	3	128	DR	2016	ROV	-
2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT--1-50-10/15/2017	1	6	2	0	6	0	0	0	15	DR	2017	ROV	-
2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT--2-54-10/15/2017	2	1	4	9	1	2	6	1	26	DR	2017	ROV	-
2017-Stetson Bank-Dustin/Marissa/Jason-MESO-RT--4-39-10/14/2017	265	25	4	3	2	0	1	0	300	CR	2017	ROV	-
2017-Stetson Bank-Marissa Nuttall-MESO-RT--6-56-10/14/2017	172	20	3	14	6	2	1	0	218	DR	2017	ROV	-
2017-Stetson Bank-Marissa/Jason-MESO-RT--7-45-10/14/2017	80	10	9	4	3	30	0	0	136	CR	2017	ROV	-
2017-Stetson Bank-Jason Mostowy-MESO-RT--9-54-10/14/2017	6	3	7	3	0	12	1	0	32	DR	2017	ROV	-
2017-Stetson Bank-Marissa/Emily/Jason-MESO-RT--11-40-10/14/2017	148	30	22	3	1	2	0	0	206	CR	2017	ROV	-
2017-Stetson Bank-Marissa/Emily/Jason-MESO-RT--12-43-10/14/2017	51	21	4	3	2	0	0	1	82	CR	2017	ROV	-
2017-Stetson Bank-Marissa/Emily/Jason-MESO-RT--13-50-10/14/2017	296	6	5	7	2	31	0	0	351	DR	2017	ROV	-
2017-Stetson Bank-Marissa/Emily/Jason-MESO-RT--14-39-10/14/2017	107	44	15	3	5	25	1	2	202	CR	2017	ROV	-
2017-Stetson Bank-Marissa/Jason-MESO-RT--15-40-10/14/2017	290	46	13	13	6	0	2	1	371	CR	2017	ROV	-
2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT--16-52-10/15/2017	3	0	102	0	0	0	0	2	107	DR	2017	ROV	-
2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT--17-52-10/15/2017	16	5	49	4	0	0	0	0	74	DR	2017	ROV	-
2017-Stetson Bank-Dustin/Marissa/Jason-MESO-RT--18-40-10/14/2017	178	15	0	2	3	12	3	0	213	CR	2017	ROV	-
2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT--19-52-10/15/2017	1	8	4	19	0	0	0	0	32	DR	2017	ROV	-
2017-Stetson Bank-Marissa/Emily/Jason-MESO-RT--20-44-10/14/2017	21	5	2	2	60	4	0	0	94	CR	2017	ROV	-
2017-Stetson Bank-Emily/Dustin/Marissa/Jason-MESO-RT--23-56-10/15/2017	0	3	2	3	1	0	0	1	10	DR	2017	ROV	-
2017-Stetson Bank-Marissa/Emily/Jason-MESO-RT--24-44-10/14/2017	106	6	2	2	4	3	0	3	126	CR	2017	ROV	-
2017-Stetson Bank-Marissa/Jason-MESO-RT--25-44-10/14/2017	333	40	2	4	2	17	0	0	398	CR	2017	ROV	-
2017-Stetson Bank-Marissa/Emily/Jason-MESO-RT--26-35-10/14/2017	138	17	20	5	0	0	0	0	180	CR	2017	ROV	-
2017-Stetson Bank-

Appendix 16. All fish summary statistics, 2015–2018.

Sample ID	Herbivore Richness	Invertivore Richness	Planktivore Richness	Piscivore Richness	Total Richness	Total Biomass	Total Density	d	J'	H'(loge)	w
F21	3	9	2	1	15	6169.76	132.43	2.87	0.66	1.77	0.16
F22	5	12	2	0	19	2511.89	109.22	3.84	0.77	2.26	0.23
F23	5	7	2	0	14	2491.11	125.07	2.69	0.65	1.70	0.07
F24	4	14	3	1	22	3013.42	90.55	4.66	0.86	2.66	0.28
F25	4	7	1	1	13	2904.06	66.21	2.86	0.65	1.67	0.08
F26	5	11	3	1	20	3939.34	204.87	3.57	0.73	2.19	0.11
F27	3	13	3	1	20	7747.53	89.98	4.22	0.84	2.50	0.22
F28	4	5	1	0	10	912.04	84.89	2.03	0.77	1.78	0.14
F29	5	12	2	0	21	1372.77	109.22	4.26	0.72	2.20	0.13
F30	4	12	4	1	21	1948.73	100.17	4.34	0.75	2.28	0.19
F31	4	7	3	1	15	583.30	63.38	3.37	0.81	2.19	0.27
F32	6	11	3	1	21	1734.22	183.36	3.84	0.74	2.25	0.14
F33	5	8	1	0	14	283.13	119.41	2.72	0.74	1.95	-0.05
P13	4	12	3	1	20	7101.39	116.58	3.99	0.76	2.27	0.19
P14	7	11	1	2	21	7014.60	119.41	4.18	0.72	2.20	0.15
P15	5	14	2	1	22	7912.98	168.08	4.10	0.69	2.12	0.22
P16	3	10	2	1	16	3469.88	332.20	2.58	0.47	1.29	-0.14
P17	9	13	1	2	25	55009.59	493.49	3.87	0.54	1.73	0.10
P18	6	10	3	2	21	2684.55	419.35	3.31	0.61	1.87	0.11
P21	7	3	1	1	25	754.99	221.84	4.44	0.66	2.14	0.08
P22	5	11	4	2	22	862.76	166.95	4.10	0.64	1.99	0.08
T02-2015	0	7	0	2	9	2794.14	3.87	6.65	0.79	1.81	0.26
T03-2015	2	10	3	1	16	4924.29	12.65	5.91	0.61	1.69	0.23
T05-2015	1	15	2	2	23	3334.94	38.99	6.01	0.54	1.68	0.03
T06-2015	0	3	1	3	7	2355.19	8.68	2.78	0.80	1.55	0.00
T07-2015	0	4	1	5	10	4117.38	17.25	3.16	0.73	1.68	0.10
T09-2015	0	4	2	6	12	5783.07	36.40	3.06	0.17	0.43	-0.11
T10-2015	2	14	3	4	23	7813.99	8.35	10.37	0.78	2.45	0.16
T11-2015	1	5	0	7	13	4354.68	30.09	3.53	0.48	1.23	-0.11
T12-2015	4	12	1	4	21	2258.19	8.13	9.55	0.80	2.44	0.23
T13-2015	3	9	2	1	15	428.19	19.36	4.72	0.72	1.94	0.25
T14-2015	0	7	1	6	14	16250.45	90.14	2.89	0.44	1.16	-0.07
T16-2015	1	13	2	6	22	2822.52	24.51	6.56	0.77	2.38	0.19
T19-2015	3	12	2	3	20	15444.72	16.08	6.84	0.72	2.15	0.17
T21-2015	2	12	3	3	20	4143.84	16.92	6.72	0.87	2.60	0.36
T22-2015	1	13	2	8	24	125958.15	156.84	4.55	0.25	0.80	-0.01
T25-2015	2	11	4	2	19	6655.45	25.68	5.85	0.72	2.15	0.17
T29-2015	2	11	4	0	17	782.14	17.84	5.55	0.75	2.11	0.20
F41	2	9	1	0	12	1459.37	59.42	2.68	0.83	2.06	0.34
F42	4	11	1	0	16	287.31	85.46	3.37	0.72	1.99	0.13
F43	6	8	1	0	17	6137.96	207.13	3.00	0.67	1.90	0.03
F44	2	12	3	2	19	547.90	101.87	3.89	0.73	2.15	0.12
F45	4	15	4	1	24	8958.59	243.35	4.19	0.68	2.16	0.23
F46	5	14	2	2	23	1563.23	159.59	4.33	0.71	2.23	0.10
F47	4	11	4	0	19	2328.44	232.03	3.30	0.68	2.02	0.02
F48	3	12	1	0	16	4337.49	76.97	3.45	0.70	1.93	0.22
F49	6	12	2	0	20	2674.13	113.19	4.02	0.74	2.22	0.10
F50	4	7	0	0	11	382.21	65.65	2.39	0.72	1.74	0.17
F52	5	9	3	2	19	760.55	61.12	4.38	0.78	2.29	0.29
F53	4	11	0	0	15	1514.56	80.36	3.19	0.79	2.13	0.16
F54	3	13	1	2	19	1496.58	134.69	3.67	0.64	1.89	0.00
F55	2	12	0	1	15	1112.08	95.08	3.07	0.63	1.70	-0.06
F56	4	9	2	0	15	996.04	156.20	2.77	0.63	1.69	-0.01
F57	6	6	0	0	12	177.01	52.63	2.78	0.81	2.01	0.17
F58	5	15	2	0	22	462.63	50.93	5.34	0.83	2.55	0.20
F59	5	11	2	1	19	908.79	232.60	3.30	0.72	2.13	0.21
F60	6	11	2	1	20	5035.00	234.86	3.48	0.73	2.19	0.10
F62	3	11	1	0	15	953.43	122.24	2.91	0.74	2.02	0.13
P23	5	19	2	2	28	4177.50	171.48	5.25	0.74	2.47	0.18
P24	5	14	1	3	23	8737.94	205.43	4.13	0.72	2.26	0.18
P25	7	14	3	0	24	7996.66	671.19	3.53	0.55	1.75	-0.10
P27	4	15	0	1	20	201867.09	221.28	3.52	0.70	2.09	0.26
P28	4	16	3	1	24	6486.54	254.67	4.15	0.67	2.12	0.02
P29	2	6	1	0	9	294.57	42.44	2.13	0.78	1.71	-0.13
P30	2	12	3	1	18	1605.60	127.90	3.50	0.81	2.35	0.16
P31	2	10	1	0	13	607.58	66.21	2.86	0.78	2.01	0.20
P32	6	12	3	3	24	10026.05	318.05	3.99	0.59	1.87	0.05
P34	4	12	1	2	19	6373.31	241.09	3.28	0.69	2.03	0.16
P35	7	14	3	3	27	1675.39	377.48	4.38	0.68	2.25	0.06
T1-2016	0	6	2	2	10	2761.34	6.27	4.90	0.59	1.36	0.09
T2-2016	3	10	4	2	19	11950.39	61.07	4.38	0.65	1.92	0.20
T3-2016	2	8	3	4	17	734.05	29.72	4.72	0.66	1.87	0.14
T4-2016	2	10	2	5	19	2546.06	77.17	4.14	0.49	1.45	-0.12
T5-2016	0	4	1	3	8	383.66	1.48	17.81	0.95	1.97	0.43
T6-2016	0	5	2	1	8	497.60	41.47	1.88	0.70	1.46	0.02
T10-2016	2	9	3	4	18	1549.20	108.13	3.63	0.43	1.23	-0.18
T11-2016	2	13	4	3	22	2526.82	84.81	4.73	0.53	1.62	0.08
T12-2016	1	8	1	2	12	2291.06	6.78	5.75	0.40	1.00	0.08
T14-2016	0	6	1	2	9	413.41	4.65	5.21	0.79	1.73	-0.14
T17-2016	0	4	1	3	8	979.51	2.46	7.79	0.94	1.95	0.34
T18-2016	2	11	3	5	21	2382.83	75.66	4.62	0.48	1.47	-0.07
T19-2016	2	10	3	1	16	1046.84	88.14	3.35	0.28	0.78	-0.25
T22-2016	4	11	1	2	18	2474.58	106.44	3.64	0.40	1.16	0.04
T23-2016	0	6	2	1	9	6422.99	19.94	2.67	0.39	0.87	0.10
T24-2016	2	13	2	3	20	12368.01	66.27	4.53	0.68	2.03	0.16
T25-2016	1	12	3	1	17	2243.42	327.80	2.76	0.11	0.31	-0.14
T27-2016	3	9	2	2	16	889.29	62.43	3.63	0.42	1.15	0.01
T30-2016	1	6	1	4	12	444.61	6.71	5.78	0.39	0.98	-0.17
F63	5	11	3	1	20	4163.26	107.53	4.08	0.79	2.37	0.23
F64	3	11	1	2	17	9704.31	43.58	4.25	0.85	2.41	0.22
F67	6	8	2	0	16	591.78	627.62	2.33	0.20	0.54	-0.19
F68	2	8	1	2	13	8402.39	52.63	3.03	0.67	1.72	0.00
F69	6	12	2	2	22	3393.45	348.05	3.59	0.32	0.98	-0.12
F70	7	13	5	1	26	2873.49	280.70	4.44	0.71	2.30	0.09
F71	6	10	2	3	21	5009.96	112.62	4.23	0.75	2.30	0.25
F74	4	8	2	1	15	632.47	163.55	2.75	0.47	1.27	-0.02
F75	8	10	3	1	22	1878.25	74.14	4.88	0.86	2.64	0.35
F79	1	10	1	1	13	2792.28	146.01	2.41	0.47	1.21	0.11
F80	3	4	3	1	11	3853.20	252.97	1.81	0.23	0.56	0.06
F83	2	10	0	0	12	4391.23	33.96	3.12	0.74	1.84	0.06
F84	6	14	4	2	26	3137.55	401.25	4.17	0.49	1.59	0.00
P36	1	12	1	3	17	5740.75	441.43	2.63	0.37	1.06	-0.07
P37	6	13	4	4	27	33242.21	228.07	4.79	0.57	1.89	0.14
P38	7	13	2	1	23	2728.13	312.96	3.83	0.50	1.56	0.05
P39	5	11	2	2	20	6962.70	546.12	3.01	0.35	1.04	-0.07
P40	3	8	1	2	14	8813.39	371.25	2.20	0.71	1.86	0.04
P41	4	9	2	0	15	9103.35	46.41	3.65	0.83	2.24	0.34
P42	4	12	1	4	21	1358.99	634.41	3.10	0.18	0.56	-0.16
P43	4	9	2	1	14	6593.09	444.82	2.13	0.62	1.64	0.01
P44	2	9	2	3	16	10115.39	140.35	3.03	0.82	2.27	0.37
P45	3	9	3	2	17	8735.56	272.21	2.85	0.52	1.49	0.02
P46	4	12	1	1	18	1219.11	728.35	2.58	0.28	0.82	-0.11
P48	8	13	3	0	24	5064.41	140.92	4.65	0.79	2.51	0.27
T1-2017	0	3	0	2	5	236.90	2.40	4.57	0.76	1.23	0.42
T2-2017	0	3	0	2	5	1079.92	5.10	2.46	0.81	1.30	0.34
T4-2017	2	6	4	4	16	361.52	80.38	3.42	0.52	1.45	-0.05
T6-2017	0	4	1	3	8	1104.41	8.86	3.21	0.76	1.58	0.04
T7-2017	1	7	1	2	11	1747.28	24.49	3.13	0.60	1.45	0.16
T9-2017	0	6	1	3	10	2811.97	19.86	3.01	0.83	1.90	0.36
T11-2017	4	13	3	1	21	906.39	75.90	4.62	0.66	2.01	0.06
T12-2017	0	11	1	1	13	548.32	26.92	3.64	0.64	1.65	0.09
T13-2017	0	11	2	3	16	1280.74	25.48	4.63	0.49	1.35	0.10
T14-2017	3	11	2	6	22	1606.12	31.51	6.09	0.71	2.19	0.13
T15-2017	1	14	3	5	23	1040.64	73.30	5.14	0.64	2.04	-0.08
T16-2017	0	2	1	2	5	849.11	15.40	1.46	0.20	0.33	-0.14
T17-2017	1	3	2	2	8	484.13	19.05	2.69	0.76	1.67	0.12
T18-2017	2	11	2	5	20	1757.10320	57.35295576	4.69255642	0.57008526	1.70782816	0.110364504
T19-2017	0	4	1	2	7	392.98667	6.74383145	3.14361902	0.84983887	1.64208302	0.130818638
T20-2017	0	6	2	3	11	1883.358775	15.49763978	3.648719208	0.64999645	1.558623415	0.121888668
T23-2017	0	2	0	1	3	368.8022878	2.210169659	2.521847772	0.86991553	0.955699891	0.498684314
T24-2017	0	9	2	3	14	1087.717067	24.2982006	4.074721237	0.59890443	1.580543125	0.02421166
T25-2017	1	12	2	4	19	894.2665183	60.23467859	4.39212047	0.440310415	1.296467149	0.025254696
T26-2017	3	9	3	2	17	1052.177767	34.75827594	4.509052021	0.713100589	2.020366103	0.197190453
T30-2017	0	8	1	2	11	2461.310146	19.66113394	2.330062811	0.572452114	1.198698473	0.203202976
F100	6	10	3	1	20	2651.429148	104.131296	4.089845234	0.796009547	2.384631491	0.269454203
F101	6	5	1	1	13	429.772463	56.59309564	2.973324085	0.831877701	2.133724174	0.29756146
F104	7	16	3	2	28	55895.99471	251.8392756	4.881545009	0.751932219	2.505591931	0.258452909
F85	7	16	2	0	25	10158.07936	228.6361064	4.418155044	0.707334904	2.276823224	0.246832604
F86	5	8	2	2	17	660.8823889	129.0322581	3.292138776	0.688588152	1.950917139	0.048005056
F88	7	13	3	0	23	1956.416977	72.43916242	5.136888086	0.855615222	2.682775572	0.288029273
F89	5	11	2	1	19	74685.62569	320.3169213	3.119956674	0.633853242	1.866342192	0.202203515
F91	5	8	2	2	17	5331.722764	60.55461234	3.872969343	0.867097513	2.456672245	0.490537365
F92	5	8	2	2	17	716.9925866	92.2467459	3.531554145	0.794514163	2.251028128	0.217954288
F93	4	12	1	2	19	1309.048818	86.58743633	4.034829791	0.68919857	2.029303133	-0.131462267
F96	5	9	3	3	20	445.3690702	138.0871534	3.85560943	0.789336374	2.36464045	0.176944412
F97	7	11	2	1	20	2122.570358	119.9773628	3.964934145	0.651378937	1.951356904	0.140718374
F98	8	15	2	3	28	17167.76442	1115.449915	3.847791013	0.569460487	1.897558803	-0.065148478
P51	9	12	4	4	29	12124.17338	683.6445954	4.289584858	0.409005145	1.377241318	0.065723049
P53	3	12	2	3	20	40147.42627	233.729485	3.483576696	0.726963316	2.177787469	0.111984833
P57	6	8	1	0	15	610.8566285	89.41709111	3.111373152	0.632568377	1.71302692	0.024420692
P58	4	11	2	1	18	6853.952798	148.8398415	3.395473216	0.637936207	1.884372795	0.077888795
P59	5	9	3	3	20	2261.801989	1031.692134	2.738164235	0.452593657	1.355849426	0.064889477
P60	7	12	2	5	26	59126.51284	389.360498	4.191462208	0.740949263	2.41408423	0.238871847
P61	6	14	5	4	29	3791.85468	1838.143746	3.724979772	0.263668066	0.887848379	-0.134109241
T1-2018	0	0	0	1	1	45.39123357	0.143868988				
T4-2018	0	1	0	1	2	19.65382996	0.295612368		0.970950594	0.673011667	0.577249432
T5-2018	0	2	0	1	3	18.26484401	0.300793946		0	1.098612289	0.69274579
T7-2018	0	3	1	1	5	82.30652558	0.720195668		0.93497753	1.504788284	0.514935694
T8-2018	1	2	0	2	5	266.4624951	0.452779546		0.9697239	1.560710409	0.784537223
T9-2018	0	3	0	0	3	16.2340903	2.706680227	2.008590994	0.965401367	1.060601806	0.200039529
T10-2018	3	13	3	2	21	1276.598752	44.07616679	5.282732922	0.476623567	1.451091145	-0.186618727
T11-2018	2	14	2	3	21	954.4381795	48.36957268	5.156139569	0.359926677	1.095804843	-0.138359753
T12-2018	5	11	2	1	19	571.4118897	40.70372839	4.312696355	0.231682579	0.656406174	0.086254711
T14-2018	4	13	4	4	25	6781.090548	66.8345292	5.711267104	0.728133435	2.343771111	0.116007707
T15-2018	7	11	5	5	28	8144.762335	80.34375387	6.155509576	0.604732312	2.015091738	0.128690382
T16-2018	0	1	0	1	2	1028.445547	0.531789931		0.970950594	0.673011667	0.78660684
T17-2018	3	10	2	2	15	6077.709352	19.22388205	5.750716527	0.614225209	1.775339197	0.199539502
T18-2018	3	10	2	1	15	254.6299856	50.18458067	3.575343137	0.279317582	0.756406033	-0.240874695
T19-2018	0	5	3	1	9	432.7886133	25.35020564	2.474645063	0.397506672	0.873411429	-0.249536718
T21-2018	3	10	3	4	20	3110.473317	25.60524879	6.155903952	0.745589705	2.269964586	0.270659544
T22-2018	3	11	1	2	17	3537.324768	48.19212199	4.128823885	0.625677902	1.772678982	0.160993375
T24-2018	0	1	1	0	2	25.07621074	0.357519426		0.918295834	0.636514168	-0.326588689
T25-2018	0	2	1	1	4	193.3042753	1.606214846	7.429159647	0.739435984	1.199076307	0.369045425
T26-2018	1	0	0	3	3	10.55494285	0.509334543		0.946339463	1.039720771	0.733964658
T27-2018	1	4	1	1	7	258.5582552	0.809660213		0.970835763	1.889159164	0.673509482
T28-2018	0	1	2	1	4	683.6825872	4.942041016	1.877607049	0.352689485	0.488931444	-0.12455876
T29-2018	0	2	0	0	2	107.3690201	0.191886507		1	0.693147181	0.931118265
2015-Stetson Bank-Travis Sterne-Buoy #1-1-140-74-6/23/2015	6	7	1	2	16	3547.776752	236.5591398	2.744137579	0.405981796	1.125620549	-0.035187808
2015-Stetson Bank-Travis Sterne-Buoy #1-2-330-74-6/23/2015	2	11	3	0	16	857.8826468	133.5597057	3.064633982	0.691183277	1.916366958	-0.008557133
2015-Stetson Bank-Michelle Johnston-Buoy #1-1-319-74-6/23/2015	5	12	4	2	18	493.3769464	142.0486701	3.410696355	0.677320899	1.957709197	0.035121251
2015-Stetson Bank-Michelle Johnston-Buoy #1-2-310-75-6/23/2015	4	11	1	1	17	339.2767969	79.2303339	3.659351659	0.860795129	2.438816246	0.285437009
2015-Stetson Bank-John Embesi-Buoy #1-1-60-65-6/23/2015	7	19	4	2	32	45871.87025	508.2059989	4.975214704	0.681104761	2.360529223	0.149142814
2015-Stetson Bank-Ryan Eckert-Buoy #1-1-230-60-6/23/2015	7	14	1	2	24	26694.32233	412.5636672	3.819081452	0.642984117	2.043438135	0.147254612
2015-Stetson Bank-Marissa Nuttall-Buoy #2-1-325-81-6/24/2015	10	16	5	3	34	4829.388385	449.9151104	5.401813999	0.586364824	2.067733769	0.044635924
2015-Stetson Bank-Travis Sterne-Buoy #2-1-120-82-6/24/2015	5	12	2	1	20	5634.425726	316.9213356	3.299382347	0.504491701	1.51132207	0.004559751
2015-Stetson Bank-Marissa Nuttall-Buoy #3-2-300-80-6/25/2015	8	10	3	0	21	671.1859283	92.81267685	4.414442681	0.829555344	2.525599858	0.239772176
2015-Stetson Bank-Travis Sterne-Buoy #3-1-100-75-6/25/2015	6	8	2	0	16	371.4876705	168.0814941	2.927144003	0.513008983	1.42236292	-0.151338643
2015-Stetson Bank-Travis Sterne-Buoy #3-2-10-72-6/25/2015	7	9	3	0	19	1089.076555	172.0430108	3.496677034	0.633671429	1.871695735	0.043122475
2015-Stetson Bank-Michelle Johnston-Buoy #3-1-303-65-6/25/2015	6	11	2	0	19	839.8549211	292.0203735	3.170787285	0.628493019	1.850559343	-0.013266942
2015-Stetson Bank-Michelle Johnston-Buoy #3-2-179-74-6/25/2015	9	11	4	0	24	319.6414202	149.4057725	4.593875528	0.789077566	2.507730981	0.148141046
2015-Stetson Bank-Marissa Nuttall-Buoy #3-1-85-73-6/25/2015	8	11	2	0	21	3472.065512	321.4487832	3.464500341	0.7303389	2.223531619	0.129963738
2015-Stetson Bank-Ryan Eckert-Buoy #2-1-180-67-6/24/2015	7	17	3	1	28	10894.52391	421.0526316	4.468158531	0.596942841	1.989135628	0.077258101
2015-Stetson Bank-Ryan Eckert-Buoy #2-2-250-70-6/24/2015	6	15	2	2	23	13583.23616	340.6904358	3.772954407	0.574056227	1.79994998	0.080656501
2015-Stetson Bank-John Embesi-Buoy #2-1-62-79-6/24/2015	7	11	2	2	22	57919.16962	206.5647991	3.939508539	0.712011863	2.200858896	0.239323491
2015-Stetson Bank-John Embesi-Buoy #2-2-48-70-6/24/2015	5	13	3	3	24	39631.56583	504.2444822	3.695930208	0.601978842	1.913121164	-0.017206704
Stetson-LTM 2016-Laura Wandel-PIN20	4	12	0	0	16	10309.37968	451.6129032	2.453857097	0.538091866	1.49159744	0.13618233
Stetson-LTM 2016-Laura Wandel-PIN22	2	9	2	3	19	9594.375324	511.1675156	2.885238786	0.444860901	1.309865776	0.043214486
Stetson-LTM 2016-Marissa Nuttall-PIN45	6	11	4	0	21	2528.360614	282.3995473	3.544011276	0.730181732	2.223054666	0.166336176
Stetson-LTM 2016-Marissa Nuttall-PIN19	5	11	3	1	20	2771.838271	171.4770798	3.693300826	0.738388523	2.21201433	0.045128106
Stetson-LTM 2016-Rachel Susen-PIN27	3	11	3	1	18	2016.840988	117.7136389	3.565245652	0.69054658	1.995936332	0.054954224
Stetson-LTM 2016-Marissa Nuttall-PIN73	5	13	3	3	23	5161.306129	303.9049236	3.848364031	0.620926583	1.946911711	0.057862536
Stetson-LTM-2017-Raven Walker-Pin 73	4	13	3	3	24	5618.814056	508.7719298	3.690629106	0.512344313	1.628257808	-0.022917967
Stetson-LTM-2017-John Embesi-Pin 27	6	16	3	3	26	69898.75118	1131.861913	3.555368835	0.648905	2.114195134	0.063582013
Stetson-LTM-2017-Amie Hufton-Tag 19	3	10	2	2	17	8721.140764	117.147708	3.358920188	0.576411889	1.633097856	0.020443982
Stetson-LTM-2017-Amie Hufton-Tag 50	2	10	1	1	14	17966.89708	126.2026033	2.687122655	0.617030802	1.628379662	0.088598797
Stetson-LTM-2017-Nicole Morgan-PIN 20	5	9	1	2	17	80777.74532	464.0633843	2.605854217	0.600243785	1.700618701	0.186337555
Stetson-LTM-2017-Nicole Morgan-PIN 45	5	6	1	1	13	32132.63638	216.1856254	2.232085803	0.511863845	1.33009	0.143562012
stetson Bank Long-Term Monitoring 2018-Emma Hickerson-P19	6	11	1	4	22	2752.8.40418	1117.147708	2.992077821	0.411285992	1.271302462	0.027471691
stetson Bank Long-Term Monitoring 2018-Kelly Drinnen-Pin 50	4	9	2	4	19	8554.395533	288.6247878	3.17733359	0.572640718	1.686105652	-0.188431437

Sample Information	LAT	LONG	Year	Habitat	Type
	28.166114	-94.294480	2015	Low	Random
	28.165778	-94.295735	2015	Low	Random
	28.166701	-94.294049	2015	Low	Random
	28.166620	-94.294762	2015	Low	Random
	28.166291	-94.293310	2015	Low	Random
	28.164273	-94.298728	2015	Low	Random
	28.166710	-94.292857	2015	Low	Random
	28.165406	-94.296163	2015	Low	Random
	28.165813	-94.297039	2015	Low	Random
	28.165874	-94.295000	2015	Low	Random
	28.166206	-94.294306	2015	Low	Random
	28.165843	-94.294649	2015	Low	Random
	28.166079	-94.296394	2015	Low	Random
	28.164710	-94.298740	2015	High	Random
	28.166780	-94.295629	2015	High	Random
	28.166153	-94.296703	2015	High	Random
	28.164058	-94.298830	2015	High	Random
	28.166004	-94.297863	2015	High	Random
	28.165442	-94.298160	2015	High	Random
	28.166314	-94.296266	2015	High	Random
	28.164454	-94.298870	2015	High	Random
	28.165140	-94.307000	2015	DR	ROV
	28.164200	-94.297600	2015

Appendix 17: Temperature (oC) at Stenon Bank at 24m, 2015–2018. Feb 29th was excluded.

Date	2015	2016	2017	2018	10 yr. Average
1-Jan	20.58	22.21	22.61	20.91	21.32
2-Jan	21.75	22.43	23.18	21.00	21.59
3-Jan	21.71	22.26	22.88	20.49	21.32
4-Jan	21.72	22.26	22.62	20.24	21.30
5-Jan	21.30	22.33	22.81	20.20	21.16
6-Jan	20.79	22.50	22.69	20.20	20.94
7-Jan	20.89	23.37	22.50	20.96	20.81
8-Jan	20.80	23.58	22.11	21.60	20.66
9-Jan	20.69	22.90	21.88	21.38	20.41
10-Jan	20.72	22.57	21.88	21.38	20.47
11-Jan	20.85	22.49	22.00	20.97	20.56
12-Jan	21.07	22.38	21.96	20.79	20.40
13-Jan	20.88	22.35	21.86	20.40	20.34
14-Jan	20.63	22.34	22.12	20.47	20.15
15-Jan	20.19	22.52	22.75	20.55	20.25
16-Jan	20.16	22.29	22.54	20.54	20.26
17-Jan	20.28	21.84	22.28	20.07	20.27
18-Jan	20.38	21.58	22.00	20.07	20.19
19-Jan	20.80	21.79	22.19	18.73	20.30
20-Jan	21.08	21.90	21.89	18.83	20.12
21-Jan	20.73	21.78	21.46	19.28	20.09
22-Jan	20.27	21.07	21.46	19.57	20.13
23-Jan	19.92	20.34	21.79	19.84	20.18
24-Jan	19.77	20.40	22.13	19.91	20.08
25-Jan	19.65	20.25	21.99	19.80	19.98
26-Jan	19.47	20.44	21.86	19.78	19.87
27-Jan	19.69	19.98	21.68	20.04	19.78
28-Jan	19.81	19.98	21.42	20.17	19.68
29-Jan	19.81	19.98	21.25	20.08	19.96
30-Jan	19.61	19.98	21.08	20.07	19.98
31-Jan	19.67	20.26	20.91	19.96	19.98
1-Feb	19.40	20.68	20.46	19.13	19.95
2-Feb	19.41	20.74	20.26	18.98	19.93
3-Feb	19.29	20.59	20.05	19.49	19.64
4-Feb	19.31	20.63	20.62	19.62	19.66
5-Feb	19.37	19.55	20.54	19.61	19.89
6-Feb	19.48	19.52	20.58	20.04	19.95
7-Feb	19.71	20.68	20.34	19.88	19.90
8-Feb	19.47	20.25	20.46	19.92	19.84
9-Feb	19.34	19.26	20.32	19.72	19.90
10-Feb	19.34	19.73	20.19	20.12	19.86
11-Feb	19.26	19.62	20.16	20.22	19.76
12-Feb	19.62	20.12	19.77	20.14	19.64
13-Feb	19.43	19.90	20.08	20.58	19.77
14-Feb	19.35	19.28	20.66	20.12	19.68
15-Feb	19.43	18.48	20.11	20.16	19.62
16-Feb	19.53	18.58	20.01	20.42	19.66
17-Feb	19.60	19.07	20.22	20.95	19.43
18-Feb	19.72	19.52	20.39	20.94	19.54
19-Feb	19.92	19.95	20.44	20.41	19.73
20-Feb	19.49	20.07	20.51	20.41	19.79
21-Feb	19.54	20.06	20.52	20.48	19.66
22-Feb	19.33	20.22	20.48	20.60	19.70
23-Feb	19.40	20.51	20.45	20.98	19.57
24-Feb	19.11	19.96	20.58	20.73	19.47
25-Feb	18.93	19.66	20.58	20.73	19.47
26-Feb	18.93	19.66	20.58	20.73	19.47
27-Feb	18.95	19.18	20.55	20.91	19.62
28-Feb	19.07	19.34	20.50	20.91	19.68
1-Mar	19.30	19.17	20.49	20.91	19.72
2-Mar	19.53	18.65	19.82	21.11	19.34
3-Mar	19.47	19.37	20.34	20.90	19.45
4-Mar	19.40	18.94	20.23	21.88	19.45
5-Mar	19.53	19.01	20.23	21.88	19.49
6-Mar	19.42	18.96	20.61	21.60	19.49
7-Mar	19.30	19.02	20.45	21.28	19.46
8-Mar	19.45	19.37	20.39	21.30	19.44
9-Mar	19.45	19.40	20.87	21.30	19.36
10-Mar	19.53	18.96	21.43	21.22	19.25
11-Mar	19.39	19.38	21.38	21.33	19.42
12-Mar	19.17	20.08	21.23	21.23	19.62
13-Mar	19.17	20.08	21.23	21.23	19.72
14-Mar	19.14	20.44	21.98	21.08	19.68
15-Mar	19.31	20.07	22.18	20.98	19.63
16-Mar	18.88	19.86	22.38	21.07	19.69
17-Mar	18.88	20.08	22.47	21.16	19.80
18-Mar	19.04	19.78	22.21	21.11	19.89
19-Mar	19.15	19.69	22.30	21.17	19.91
20-Mar	19.36	20.35	21.94	21.20	20.02
21-Mar	19.33	20.22	21.76	21.06	20.01
22-Mar	19.05	20.19	21.74	21.18	19.98
23-Mar	19.66	20.01	21.11	21.21	19.88
24-Mar	18.90	19.87	21.76	21.25	19.87
25-Mar	18.90	19.78	21.76	21.25	19.86
26-Mar	19.93	19.80	21.51	21.26	19.94
27-Mar	19.93	19.80	21.61	21.26	19.94
28-Mar	19.64	20.07	21.86	21.33	19.97
29-Mar	19.61	20.07	22.08	21.33	19.97
30-Mar	19.61	19.65	20.22	21.06	19.93
31-Mar	19.64	20.26	22.16	21.80	20.08
1-Apr	19.64	20.44	22.24	21.57	19.96
2-Apr	19.52	20.60	22.28	21.83	20.22
3-Apr	19.18	20.29	22.23	21.83	20.13
4-Apr	18.86	20.33	22.22	22.16	20.19
5-Apr	18.86	20.31	22.11	22.11	20.24
6-Apr	19.47	20.77	22.07	22.16	20.44
7-Apr	19.88	20.88	22.47	22.16	20.48
8-Apr	20.00	20.77	22.02	22.13	20.46
9-Apr	20.40	20.80	22.06	22.06	20.52
10-Apr	20.64	20.81	23.19	22.00	20.70
11-Apr	20.68	20.79	23.19	21.94	20.75
12-Apr	20.48	20.84	22.45	21.97	20.68
13-Apr	20.48	20.80	22.06	22.05	20.66
14-Apr	20.41	20.89	21.92	22.08	20.63
15-Apr	20.41	20.89	21.92	22.08	20.63
16-Apr	21.34	20.84	22.98	21.73	20.83
17-Apr	21.38	21.28	23.89	21.78	20.97
18-Apr	22.00	21.23	23.78	21.76	20.99
19-Apr	22.00	21.23	23.78	21.76	20.99
20-Apr	21.35	22.08	24.11	21.91	20.95
21-Apr	21.48	22.38	24.26	22.17	21.05
22-Apr	21.61	22.42	23.89	22.00	21.20
23-Apr	22.02	22.42	23.52	22.00	21.34
24-Apr	22.13	22.32	23.91	21.85	21.52
25-Apr	22.13	22.38	23.76	21.81	21.68
26-Apr	22.19	22.38	23.76	21.91	21.61
27-Apr	22.19	22.38	23.76	21.91	21.61
28-Apr	22.25	22.36	23.81	22.09	21.74
29-Apr	22.38	22.39	23.72	22.12	22.06
1-May	22.51	23.25	24.04	22.13	22.19
2-May	22.84	22.42	23.80	22.13	22.34
3-May	22.75	22.63	23.88	22.41	22.16
4-May	22.60	22.66	23.87	22.62	22.21
5-May	22.37	22.35	24.20	22.89	22.22
6-May	23.05	22.54	24.20	22.89	22.37
7-May	22.95	23.28	24.26	22.19	22.41
8-May	23.14	23.41	25.19	22.87	22.57
9-May	23.18	23.54	25.16	23.35	22.55
10-May	23.57	23.65	25.16	23.35	22.73
11-May	23.49	23.82	25.20	23.04	22.81
12-May	23.49	23.97	25.38	23.85	22.83
13-May	23.91	24.46	25.47	23.25	23.00
14-May	24.03	24.55	25.47	24.55	23.15
15-May	23.82	24.47	25.68	21.86	22.32
16-May	23.85	24.33	25.82	21.74	22.29
17-May	24.07	24.29	25.61	21.83	22.38
18-May	24.03	24.30	25.61	21.83	22.41
19-May	24.05	24.17	25.77	22.38	23.34
20-May	24.05	24.61	25.89	24.74	23.65
21-May	24.71	24.56	25.88	22.70	23.74
22-May	24.93	24.30	26.00	23.52	23.81
23-May	24.48	23.01	25.55	23.57	23.89
24-May	24.48	23.01	25.55	23.57	23.89
25-May	25.40	23.96	25.75	23.57	24.06
26-May	25.82	24.47	25.70	23.52	24.01
27-May	25.90	24.43	25.74	23.52	24.36
28-May	25.78	24.93	25.96	23.99	24.36
29-May	25.65	24.84	26.44	24.47	24.15
30-May	25.38	24.68	26.67	24.21	24.18
31-May	25.38	25.01	26.67	24.21	24.09
1-Jun	26.40	24.34	26.70	23.83	24.61
2-Jun	26.32	24.77	26.78	23.70	24.73
3-Jun	26.17	25.33	27.13	23.95	24.69
4-Jun	25.90	25.39	27.13	24.17	24.72
5-Jun	25.85	25.52	26.99	23.71	24.76
6-Jun	26.48	25.42	26.83	23.81	24.87
7-Jun	25.74	25.19	26.76	23.29	24.85
8-Jun	25.65	25.17	26.66	23.29	24.85
9-Jun	25.76	25.10	27.27	24.15	25.11
10-Jun	25.76	25.14	27.34	23.92	25.25
11-Jun	25.96	25.10	27.19	23.80	25.38
12-Jun	25.99	25.17	27.19	23.80	25.55
13-Jun	26.83	25.13	27.52	27.10	25.59
14-Jun	26.99	25.09	27.74	27.10	25.61
15-Jun	26.33	25.02	27.90	27.11	25.63
16-Jun	26.37	25.16	27.90	27.11	25.65
17-Jun	26.98	25.22	27.24	27.42	25.88
18-Jun	27.09	25.27	26.89	27.94	26.01
19-Jun	27.21	25.04	27.61	27.88	26.31
20-Jun	28.71	25.08	27.61	27.88	26.42
21-Jun	29.31	25.31	28.25	28.20	26.44
22-Jun	27.59	25.52	28.25	27.77	26.47
23-Jun	27.46	25.92	28.45	27.77	26.57
24-Jun	27.46	25.56	28.35	27.71	26.61
25-Jun	27.74	25.40	27.90	27.71	26.76
26-Jun	27.85	25.44	27.72	27.69	26.73
27-Jun	27.73	25.48	27.88	27.99	26.84
28-Jun	27.82	25.43	27.08	28.26	27.09
29-Jun	28.01	25.71	27.68	28.26	27.09
30-Jun	28.25	25.91	27.52	27.97	27.40
1-Jul	27.88	25.96	27.52	27.84	27.41
2-Jul	27.50	25.81	27.55	28.17	27.63
3-Jul	27.65	25.88	27.55	28.17	27.63
4-Jul	27.44	26.42	27.58	28.16	27.67
5-Jul	27.51	26.70	27.66	28.46	27.59
6-Jul	27.91	27.30	26.75	28.55	27.56
7-Jul	28.07	27.38	26.48	28.55	27.56
8-Jul	28.37	27.41	26.15	28.62	27.37
9-Jul	29.13	27.33	25.97	28.63	27.00
10-Jul	29.45	27.79	25.94	28.61	27.10
11-Jul	29.50	28.07	25.75	28.61	27.10
12-Jul	29.34	28.79	26.80	28.59	27.61
13-Jul	29.52	28.50	28.22	28.66	27.72
14-Jul	29.58	29.63	28.12	28.38	28.09
15-Jul	29.50	29.50	27.90	28.38	28.12
16-Jul	29.03	29.68	27.43	28.65	28.39
17-Jul	28.65	29.71	27.78	28.57	28.39
18-Jul	29.19	29.69	27.91	29.25	28.43
19-Jul	29.27	29.69	27.91	29.25	28.43
20-Jul	29.21	29.06	28.08	29.13	28.66
21-Jul	29.21	29.06	28.08	29.13	28.66
22-Jul	29.46	29.29	27.66	29.14	28.66
23-Jul	29.41	29.17	27.32	28.80	28.74
24-Jul	29.39	29.17	27.32	28.80	28.74
25-Jul	29.62	28.27	27.50	28.77	28.78
26-Jul	29.47	28.69	27.66	28.47	28.86
27-Jul	28.55	27.53	27.18	28.77	28.83
28-Jul	27.57	27.11	26.84	28.58	28.69
29-Jul	27.35	27.90	29.10	28.71	28.61
30-Jul	28.05	27.86	29.09	28.43	28.72
31-Jul	28.24	27.75	29.80	27.76	28.67
1-Aug	27.78	27.54	29.80	27.76	28.50
2-Aug	27.54	26.14	29.63	27.95	28.23
3-Aug	26.95	25.84	29.59	27.20	28.17
4-Aug	27.63	26.34	29.49	29.02	28.46
5-Aug	28.88	26.19	29.49	29.02	28.46
6-Aug	28.82	25.79	28.55	28.28	28.54
7-Aug	29.08	25.96	28.41	28.70	28.70
8-Aug	29.37	26.50	28.56	28.67	28.93
9-Aug	29.06	27.70	28.56	28.67	28.85
10-Aug	29.31	27.91	29.20	28.42	28.98
11-Aug	29.27	27.27	29.21	29.04	29.03
12-Aug	28.97	27.49	28.01	28.78	29.04
13-Aug	28.97	27.49	28.01	28.78	29.04
14-Aug	29.20	27.99	28.84	28.57	29.16
15-Aug	29.38	28.73	29.09	28.61	29.24
16-Aug	28.64	29.22	29.08	28.81	29.23
17-Aug	28.72	29.31	29.13	28.81	29.23
18-Aug	28.95	28.88	28.94	28.81	29.35
19-Aug	29.16	28.88	28.94	28.81	29.35
20-Aug	29.55	29.53	28.65	28.44	29.29
21-Aug	28.49	29.69	28.53	28.82	29.22
22-Aug	28.88	29.30	28.71	28.82	29.22
23-Aug	29.04	29.45	28.71	28.82	29.34
24-Aug	29.48	29.55	29.19	29.07	29.48
25-Aug	29.37	28.82	29.32	28.99	29.55
26-Aug	29.12	28.53	29.48	29.04	29.48
27-Aug	28.39	28.69	28.49	29.04	29.48
28-Aug	28.67	28.95	28.31	28.98	29.55
29-Aug	29.24	28.13	27.78	29.11	29.53
30-Aug	29.38	27.06	27.23	29.11	29.50
31-Aug	29.45	27.58	28.07	29.08	29.46
1-Sep	29.07	28.17	28.41	28.98	29.46
2-Sep	29.32	28.71	28.17	28.23	29.57
3-Sep	29.58	29.09	27.52	28.23	29.50
4-Sep	29.22	29.32	27.35	28.07	29.45
5-Sep	29.07	29.47	27.34	27.78	29.34
6-Sep	29.02	29.77	27.30	27.20	29.32
7-Sep	29.01	29.67	27.52	27.20	29.37
8-Sep	29.02	29.89	27.75	28.06	29.35
9-Sep	29.66	29.94	27.94	28.19	29.40
10-Sep	29.52	30.93	27.70	28.49	29.39
11-Sep	29.43	29.84	27.70	28.49	29.40
12-Sep	29.10	29.98	27.26	28.51	29.39
13-Sep	28.49	29.79	27.29	28.47	29.27
14-Sep	28.17	29.01	27.75	28.02	29.16
15-Sep	28.17	28.64	27.75	28.02	29.12
16-Sep	27.95	28.44	27.95	28.21	29.11
17-Sep	27.95	28.44	27.95	28.21	29.11
18-Sep	28.29	28.21	26.66	28.33	29.12
19-Sep	28.29	28.05	27.50	28.50	29.12
20-Sep	28.22	30.13	27.64	28.50	29.02
21-Sep	28.38	28.80	27.36	28.77	28.94
22-Sep	28.48	28.94	27.90	28.77	28.91
23-Sep	28.22	29.90	27.77	28.95	28.91
24-Sep	28.52	30.11	27.80	28.95	28.85
25-Sep	28.65	29.97	28.16	28.87	28.75
26-Sep	28.65	29.72	28.24	28.87	28.67
27-Sep	28.08	30.04	28.76	28.89	28.63
28-Sep	27.36	30.25	28.53	28.89	28.56
29-Sep	26.28	30.05	28.86	28.73	28.45
30-Sep	26.31	30.18	28.99	28.61	28.45
1-Oct	27.28	29.85	28.64	28.64	28.55
2-Oct	28.13	29.61	28.64	28.64	28.56
3-Oct	28.31	29.53	28.99	28.75	28.47
4-Oct	28.31	29.64	29.01	28.82	28.58
5-Oct	27.77	29.53	28.36	28.89	28.27
6-Oct	27.77	29.44	27.99	28.89	28.19
7-Oct	27.62	29.35	28.00	28.92	28.18
8-Oct	27.49	29.23	27.99	28.89	28.08
9-Oct	27.56	28.83	28.04	28.63	28.06
10-Oct	27.50	28.50	27.65	28.63	28.07
11-Oct	27.61	28.46	27.91	28.41	27.89
12-Oct	27.80	28.42	27.60	28.41	27.75
13-Oct	27.80	28.38	27.93	28.41	27.87
14-Oct	27.80	28.38	27.93	28.41	27.87
15-Oct	27.83	28.45	28.50	28.47	27.89
16-Oct	27.83	28.43	28.13	28.59	27.70
17-Oct	27.53	28.57	27.84	28.87	27.62
18-Oct	27.37	28.51	27.87	28.87	27.59
19-Oct	27.29	28.55	27.72	28.88	27.39
20-Oct	27.18	28.15	27.71	28.87	27.29
21-Oct	27.07	27.87	27.68	28.45	27.17
22-Oct	26.96	27.86	27.60	28.45	27.04
23-Oct	26.89	27.85	27.46	27.78	26.91
24-Oct	26.57	27.83	27.18	27.78	26.78
25-Oct	26.52	28.56	27.01	27.26	26.70
26-Oct	25.81	27.61	26.81	27.26	26.60
27-Oct	25.58	27.56	26.73	27.17	26.52
28-Oct	25.49	27.47	26.47	27.17	26.37
30-Oct	25.83	27.12	26.42	27.17	26.30
31-Oct	25.79	27.20	26.42	27.17	26.24
1-Nov	25.84	27.08	26.17	27.42	26.15
2-Nov	25.87	27.08	26.15	27.34	26.19
3-Nov	25.85	27.08	26.15	26.92	26.05
4-Nov	25.87	27.09	26.15	26.92	25.53
5-Nov	25.78	27.17	26.07	26.75	25.76
6-Nov	25.84	27.16	26.98	26.75	25.81
7-Nov	25.66	27.15	25.86	26.73	25.51
8-Nov	25.63	27.01	25.40	26.59	25.44
9-Nov	25.63	26.96	25.36	26.21	25.28
10-Nov	25.67	26.67	25.35	26.02	25.15
11-Nov	25.67	26.67	25.35	26.02	25.03
12-Nov	25.44	26.46	25.34	25.94	24.90
13-Nov	25.27	26.48	25.34	25.94	24.91
14-Nov	25.17	26.38	25.63	24.81	24.63
15-Nov	25.20	26.23	25.63	24.81	24.58
16-Nov	25.13	26.04	25.09	24.66	24.43
17-Nov	25.11	25.85	24.92	24.50	24.43
18-Nov	25.04	25.65	24.86	24.45	24.36
19-Nov	25.07	25.61	24.93	24.45	24.32
20-Nov	24.88	25.60	24.86	24.15	24.29
21-Nov	24.65	25.42	24.63	24.02	24.29
22-Nov	24.65	25.26	24.46	24.03	24.16
23-Nov	24.63	25.22	24.36	24.03	24.12
24-Nov	24.68	25.14	24.44	23.79	23.95
25-Nov	24.77	25.09	24.57	23.83	23.88
26-Nov	24.69	25.08	24.48	23.51	23.79
27-Nov	24.79	24.99	24.51	23.51	23.79
28-Nov	24.81	24.74	23.96	23.48	23.58
29-Nov	24.79	24.60	24.11	23.68	23.45
2-Dec	24.65	24.61	24.22	23.38	23.39
3-Dec	24.61	24.60	24.16	23.38	23.22
4-Dec	24.35	24.84	24.20	23.26	23.22
5-Dec	24.29	24.83	24.35	23.19	23.16
6-Dec	24.27	24.51	24.25	23.02	23.13
7-Dec	24.27	24.39	23.76	23.02	23.07
8-Dec	24.29	24.41	23.60	22.82	23.09
9-Dec	24.24	24.29	23.38	22.82	22.98
10-Dec	24.31	23.81	23.24	22.29	22.80
11-Dec	24.31	23.81	23.24	22.29	22.80
12-Dec	24.32	23.75	23.16	22.64	22.67
13-Dec	24.22	23.78	23.15	22.81	22.64
14-Dec	24.12	23.81	22.32	21.47	22.46
15-Dec	24.01	23.66	22.59	21.47	22.37
16-Dec	23.99	23.86	22.47	21.57	22.37
17-Dec	23.53	23.23	22.52	21.57	22.32
18-Dec	23.70	23.09	22.53	21.13	22.02
19-Dec	23.70	23.09	22.53	21.13	22.02
20-Dec	23.31	23.07	22.05	20.60	21.78
21-Dec	23.65	23.18	21.90	21.47	21.78
22-Dec	23.43	23.34	22.18	21.11	21.40
23-Dec	23.10	23.25	21.72	20.99	21.45
24-Dec	23.10	23.06	21.51	20.85	21.52
31-Dec	23.71	23.15	22.18	20.89	21.70

Appendix 18. Temperature (oC) at Stenon Bank at 30m, 2015–2018. Feb 29th was excluded.

Date	2015	2016	2017	2018	4 yr. Average
1-Jan	21.24	22.49	22.04	21.74	21.88
2-Jan	21.57	22.53	22.02	21.74	22.02
3-Jan	21.71	22.34	22.37	20.94	21.91
4-Jan	21.64	22.69	22.06	21.06	21.86
5-Jan	21.30	22.47	22.89	20.34	21.75
6-Jan	20.66	22.44	22.76	20.31	21.54
7-Jan	20.86	23.44	22.58	20.67	21.89
8-Jan	20.81	23.53	22.22	21.73	22.07
9-Jan	20.64	23.01	21.95	21.50	21.78
10-Jan	20.73	22.69	21.98	21.62	21.68
11-Jan	20.81	22.60	22.08	21.09	21.65
12-Jan	20.77	22.49	22.08	20.94	21.63
13-Jan	20.89	22.37	21.96	20.51	21.43
14-Jan	20.64	22.21	22.41	20.61	21.47
15-Jan	20.20	22.51	22.84	20.67	21.56
16-Jan	20.57	22.32	22.48	20.64	21.33
17-Jan	20.25	21.97	22.26	20.21	21.17
18-Jan	20.46	22.15	22.16	20.31	21.28
19-Jan	20.77	21.90	22.09	18.90	20.91
20-Jan	20.81	21.58	21.82	18.53	20.88
21-Jan	20.75	21.96	21.19	18.98	20.72
22-Jan	20.52	21.17	21.27	19.47	20.40
23-Jan	19.84	20.43	21.78	19.97	20.50
24-Jan	19.64	20.44	22.27	20.02	20.58
25-Jan	19.58	20.30	22.08	19.92	20.47
26-Jan	19.42	20.40	21.90	19.80	20.38
27-Jan	19.67	20.11	21.79	20.12	20.42
28-Jan	19.92	19.96	21.57	20.21	20.41
29-Jan	19.97	19.96	21.37	20.21	20.38
30-Jan	19.92	19.92	21.20	20.21	20.31
31-Jan	19.87	19.88	21.04	20.21	20.25
1-Feb	19.45	20.07	20.56	19.21	19.97
2-Feb	19.51	20.35	20.32	18.59	19.91
3-Feb	19.27	20.63	20.10	19.53	19.88
4-Feb	19.33	20.76	20.29	19.53	19.99
5-Feb	19.26	19.73	20.53	19.66	19.81
6-Feb	19.61	20.67	20.54	20.11	20.28
7-Feb	19.72	20.78	20.54	20.08	20.28
8-Feb	19.49	20.27	19.53	19.81	19.83
9-Feb	19.39	19.35	20.42	19.86	19.75
10-Feb	19.43	19.83	20.26	20.11	19.91
11-Feb	19.24	19.65	19.99	20.31	19.80
12-Feb	19.48	20.19	19.74	20.31	19.93
13-Feb	19.42	20.02	19.88	20.61	19.98
14-Feb	19.49	19.42	20.21	20.61	19.93
15-Feb	19.38	18.46	20.26	20.16	19.57
16-Feb	19.53	18.86	20.26	19.91	19.64
17-Feb	19.48	19.01	20.45	20.89	19.96
18-Feb	19.59	19.77	20.01	20.31	19.92
19-Feb	19.48	20.00	20.52	19.92	19.98
20-Feb	19.39	20.08	20.52	19.92	20.03
21-Feb	19.51	20.06	20.61	20.35	20.13
22-Feb	19.35	20.18	20.65	20.64	20.20
23-Feb	19.39	20.23	20.53	20.97	20.28
24-Feb	19.51	19.93	20.65	20.97	20.26
25-Feb	19.61	19.82	20.68	20.68	19.97
26-Feb	19.67	19.82	20.64	20.68	19.95
27-Feb	19.58	19.47	20.64	20.66	19.87
28-Feb	19.61	19.47	20.64	20.66	19.87
1-Mar	19.81	19.26	19.88	20.66	19.65
2-Mar	19.49	18.65	19.94	20.56	19.66
3-Mar	19.40	19.10	20.26	21.06	19.95
4-Mar	19.41	18.95	20.30	21.15	19.96
5-Mar	19.53	19.06	20.37	20.97	19.98
6-Mar	19.40	19.07	20.69	20.49	19.91
7-Mar	19.27	19.04	20.45	21.13	19.97
8-Mar	19.40	19.32	20.46	21.44	20.16
9-Mar	19.35	19.32	20.83	21.44	20.24
10-Mar	19.45	19.14	21.43	21.25	20.32
11-Mar	19.47	19.40	21.38	21.40	20.42
12-Mar	19.15	19.94	21.23	21.37	20.43
13-Mar	19.25	19.95	21.18	21.37	20.44
14-Mar	19.14	19.92	22.07	21.23	20.59
15-Mar	18.97	19.50	22.26	21.08	20.45
16-Mar	18.89	19.47	22.47	21.19	20.50
17-Mar	18.99	19.53	22.47	21.19	20.54
18-Mar	18.91	19.47	22.33	21.14	20.46
19-Mar	19.01	19.33	22.33	21.14	20.44
20-Mar	19.26	19.53	22.01	21.28	20.52
21-Mar	19.13	19.90	21.80	21.28	20.52
22-Mar	18.85	19.98	21.80	21.24	20.47
23-Mar	18.98	19.80	21.76	21.38	20.23
24-Mar	18.67	19.79	21.56	21.40	20.35
25-Mar	18.48	19.77	21.44	21.40	20.27
26-Mar	18.47	19.77	21.44	21.20	20.47
27-Mar	18.46	20.11	21.44	21.14	20.44
28-Mar	18.56	20.11	21.55	21.14	20.46
29-Mar	18.42	20.11	21.55	21.14	20.47
30-Mar	18.47	20.14	21.86	21.14	20.57
31-Mar	18.50	20.21	21.93	21.92	20.89
1-Apr	18.52	20.28	22.17	21.85	20.74
2-Apr	19.14	20.53	22.17	21.89	20.66
3-Apr	18.54	20.26	21.89	21.89	20.64
4-Apr	18.80	20.33	21.89	21.91	20.62
5-Apr	18.47	20.28	21.96	22.10	20.71
6-Apr	18.80	20.88	21.79	22.07	20.88
7-Apr	18.97	20.88	22.35	22.07	21.27
8-Apr	19.66	20.75	21.30	21.94	20.91
9-Apr	19.50	20.53	21.36	22.04	20.96
10-Apr	19.90	20.77	22.30	22.08	21.26
11-Apr	20.04	20.73	22.30	22.08	21.29
12-Apr	20.02	20.75	21.68	22.09	21.13
13-Apr	20.59	20.79	21.53	22.11	21.07
14-Apr	20.10	20.76	21.63	22.20	21.17
15-Apr	20.08	20.80	21.63	22.20	21.18
16-Apr	20.39	20.89	22.73	21.86	21.47
17-Apr	20.41	21.20	22.45	21.87	21.87
18-Apr	20.99	21.28	23.68	21.86	21.95
19-Apr	21.44	21.28	23.68	21.86	22.17
20-Apr	21.30	21.91	23.99	21.93	22.28
21-Apr	21.62	21.82	24.14	22.25	22.46
22-Apr	21.26	21.71	24.08	22.04	22.27
23-Apr	21.17	21.66	24.08	22.04	22.24
24-Apr	21.03	21.53	23.94	21.94	21.98
25-Apr	21.41	21.53	23.46	21.94	21.84
26-Apr	21.41	21.71	23.21	21.99	21.79
27-Apr	21.32	21.82	23.21	22.09	21.86
28-Apr	21.12	22.07	22.74	22.09	22.02
29-Apr	21.09	22.00	22.08	22.18	21.84
30-Apr	21.52	21.92	23.46	22.18	22.40
1-May	21.71	21.83	23.84	22.15	22.39
2-May	21.88	22.11	23.84	22.15	22.54
3-May	21.88	21.95	23.93	22.34	22.52
4-May	21.71	21.72	23.71	22.44	22.45
5-May	22.02	21.58	24.40	22.45	22.61
6-May	22.20	21.81	24.50	22.45	22.74
7-May	22.27	22.07	24.50	22.09	22.73
8-May	22.46	22.50	24.10	22.31	22.85
9-May	22.46	22.99	24.38	22.84	23.17
10-May	22.62	23.27	24.38	23.37	23.41
11-May	22.39	23.59	24.52	22.82	23.33
12-May	22.78	23.80	24.84	23.36	23.59
13-May	22.39	23.82	24.93	23.08	23.53
14-May	21.95	23.88	24.93	23.08	23.58
15-May	22.35	24.08	23.89	21.76	23.02
16-May	22.43	24.09	23.02	21.75	22.82
17-May	22.61	24.05	24.44	21.96	23.26
18-May	22.82	23.50	24.96	22.09	23.29
19-May	22.93	23.59	24.96	22.37	23.46
20-May	22.93	23.77	25.10	22.59	23.50
21-May	22.66	23.31	25.40	22.66	23.36
22-May	22.25	23.05	25.40	22.66	23.09
23-May	22.66	22.66	24.64	23.06	23.19
24-May	22.66	22.66	24.64	23.06	23.19
25-May	22.35	22.77	23.56	23.11	22.95
26-May	23.41	23.53	23.55	22.99	23.37
27-May	24.03	23.84	24.02	23.55	23.86
28-May	24.52	24.28	23.96	23.14	23.98
29-May	24.84	24.36	24.13	23.14	24.12
30-May	25.29	24.21	25.02	23.09	24.40
31-May	25.75	24.07	24.63	23.09	24.37
1-Jun	25.84	24.08	23.67	23.50	24.27
2-Jun	25.72	24.21	23.27	23.37	24.14
3-Jun	25.68	24.33	23.32	23.21	24.14
4-Jun	25.56	24.43	23.32	23.21	24.10
5-Jun	25.09	24.15	24.24	23.28	24.19
6-Jun	24.97	24.35	23.69	23.82	24.20
7-Jun	24.84	24.25	23.39	23.18	23.91
8-Jun	24.72	24.14	23.39	23.18	23.86
9-Jun	23.54	24.43	22.94	23.83	23.69
10-Jun	23.54	24.38	22.64	23.88	23.56
11-Jun	25.24	24.56	22.99	23.68	24.07
12-Jun	25.31	24.53	23.36	23.68	24.14
13-Jun	25.69	24.28	23.11	25.10	24.54
14-Jun	26.00	24.83	23.52	24.50	24.62
15-Jun	25.22	24.51	23.30	24.38	24.35
16-Jun	25.04	24.28	23.30	24.38	24.25
17-Jun	26.60	24.55	22.91	24.59	24.66
18-Jun	26.60	24.85	22.81	24.69	24.69
19-Jun	26.99	24.76	23.04	24.98	24.79
20-Jun	26.48	24.69	23.36	24.98	24.88
21-Jun	26.55	24.73	23.55	26.01	25.22
22-Jun	26.55	24.73	24.85	25.16	25.32
23-Jun	26.28	24.77	24.85	25.16	25.27
24-Jun	26.15	24.57	24.43	25.12	24.82
25-Jun	26.51	24.58	24.43	25.12	24.91
26-Jun	27.00	24.66	24.51	25.13	25.32
27-Jun	27.39	24.72	24.48	25.39	25.49
28-Jun	27.04	24.68	24.48	25.39	25.39
29-Jun	27.35	24.79	24.14	27.58	25.97
30-Jun	27.67	25.03	24.11	27.76	26.14
1-Jul	27.77	24.84	24.89	27.81	26.41
2-Jul	27.25	24.89	25.43	25.92	26.12
3-Jul	27.14	24.96	25.48	25.92	26.13
4-Jul	27.26	24.99	25.62	27.53	26.35
5-Jul	27.12	25.30	26.12	28.89	26.63
6-Jul	27.12	25.32	26.40	28.25	26.77
7-Jul	27.03	25.56	26.87	28.79	26.81
8-Jul	27.23	25.48	26.29	27.40	26.60
9-Jul	27.41	25.77	26.11	27.83	26.83
10-Jul	28.18	25.71	25.93	27.60	26.85
11-Jul	28.13	25.75	25.93	27.60	26.68
12-Jul	27.97	26.25	24.90	28.28	26.85
13-Jul	28.03	27.04	25.43	28.23	27.18
14-Jul	28.11	27.52	26.11	27.50	27.31
15-Jul	28.26	28.01	26.11	27.50	27.39
16-Jul	27.82	26.78	26.89	27.64	27.28
17-Jul	27.68	27.25	26.08	27.68	27.22
18-Jul	27.67	27.07	25.76	28.50	27.28
19-Jul	27.82	27.48	25.76	28.50	27.39
20-Jul	27.98	26.31	25.93	28.50	27.18
21-Jul	28.73	26.39	25.73	28.15	27.25
22-Jul	28.63	26.21	25.81	27.42	27.07
23-Jul	27.04	26.49	26.04	28.50	27.27
24-Jul	25.94	26.53	26.04	28.50	27.26
25-Jul	25.88	26.12	28.56	28.50	27.26
26-Jul	26.07	25.99	28.81	28.10	27.25
27-Jul	26.55	26.10	29.52	26.73	27.38
28-Jul	27.06	25.30	29.76	26.73	27.36
29-Jul	27.07	25.03	24.11	27.76	26.14
30-Jul	27.77	24.84	24.89	27.81	26.41
31-Jul	27.55	24.89	25.43	25.92	26.12
1-Aug	27.16	24.96	25.48	25.92	26.13
2-Aug	27.26	24.99	25.62	27.53	26.35
3-Aug	27.12	25.30	26.12	28.89	26.63
4-Aug	27.12	25.32	26.40	28.25	26.77
5-Aug	27.03	25.56	26.87	28.79	26.81
6-Aug	27.23	25.48	26.29	27.40	26.60
7-Aug	27.41	25.77	26.11	27.83	26.83
8-Aug	28.18	25.71	25.93	27.60	26.85
9-Aug	28.13	25.75	25.93	27.60	26.68
10-Aug	27.97	26.25	24.90	28.28	26.85
11-Aug	28.03	27.04	25.43	28.23	27.18
12-Aug	28.11	27.52	26.11	27.50	27.31
13-Aug	28.26	28.01	26.11	27.50	27.39
14-Aug	27.82	26.78	26.89	27.64	27.28
15-Aug	27.68	27.25	26.08	27.68	27.22
16-Aug	27.67	27.07	25.76	28.50	27.28
17-Aug	27.82	27.48	25.76	28.50	27.39
18-Aug	27.98	26.31	25.93	28.50	27.18
19-Aug	28.73	26.39	25.73	28.15	27.25
20-Aug	28.63	26.21	25.81	27.42	27.07
21-Aug	27.04	26.49	26.04	28.50	27.27
22-Aug	25.94	26.53	26.04	28.50	27.26
23-Aug	25.88	26.12	28.56	28.50	27.26
24-Aug	26.07	25.99	28.81	28.10	27.25
25-Aug	26.55	26.10	29.52	26.73	27.38
26-Aug	27.06	25.30	29.76	26.73	27.36
27-Aug	27.07	25.03	24.11	27.76	26.14
28-Aug	27.77	24.84	24.89	27.81	26.41
29-Aug	27.55	24.89	25.43	25.92	26.12
30-Aug	27.16	24.96	25.48	25.92	26.13
31-Aug	27.26	24.99	25.62	27.53	26.35
1-Sep	27.12	25.30	26.12	28.89	26.63
2-Sep	27.12	25.32	26.40	28.25	26.77
3-Sep	27.03	25.56	26.87	28.79	26.81
4-Sep	27.23	25.48	26.29	27.40	26.60
5-Sep	27.41	25.77	26.11	27.83	26.83
6-Sep	28.18	25.71	25.93	27.60	26.85
7-Sep	28.13	25.75	25.93	27.60	26.68
8-Sep	27.97	26.25	24.90	28.28	26.85
9-Sep	28.03	27.04	25.43	28.23	27.18
10-Sep	28.98	27.52	26.11	27.50	27.31
11-Sep	28.81	28.01	26.11	27.50	27.39
12-Sep	28.84	30.03	26.74	26.57	28.04
13-Sep	28.84	28.96	26.83	26.57	27.79
14-Sep	29.01	28.05	27.55	26.35	27.24
15-Sep	29.24	28.30	27.55	26.35	27.36
16-Sep	29.44	27.24	25.85	27.03	26.89
17-Sep	29.44	27.24	25.85	27.03	26.89
18-Sep	29.44	27.24	26.22	28.25	27.91
19-Sep	28.26	27.73	26.95	28.41	28.34
20-Sep	27.59	28.07	27.23	27.87	28.41
21-Sep	27.59	27.55	27.17	28.69	28.25
22-Sep	27.59	27.35	27.34	28.77	28.17
23-Sep	25.78	29.59	27.41	28.57	28.84
24-Sep	25.25	30.08	27.48	28.57	28.59
25-Sep	28.18	29.90	27.67	28.63	28.59
26-Sep	27.52	29.65	27.74	28.63	28.34
27-Sep	27.16	28.52	28.64	28.52	28.53
28-Sep	26.93	28.52	29.51	28.52	28.70
29-Sep	25.52	30.13	28.65	28.72	28.26
30-Sep	25.94	29.97	28.81	28.41	28.30
1-Oct	26.54	29.91	28.39	28.50	28.33
2-Oct	27.30	29.82	28.39	28.50	28.59
3-Oct	27.93	29.57	29.03	28.56	28.77
4-Oct	27.93	29.82	29.76	28.63	28.78
5-Oct	27.80	28.60	28.24	28.94	28.40
6-Oct	27.49	28.92	27.50	29.08	28.33
7-Oct	27.30	29.04	27.91	28.96	28.30
8-Oct	27.49	27.64	27.95	29.01	28.02
9-Oct	27.55	27.90	27.98	28.75	28.05
10-Oct	27.55	27.70	27.98	28.75	28.02
11-Oct	27.71	28.43	27.97	28.82	28.23
12-Oct	27.71	28.31	27.86	28.81	28.17
13-Oct	27.54	28.23	28.00	29.53	28.33
14-Oct	27.54	28.23	28.00	29.53	28.33
15-Oct	27.74	28.06	28.50	29.45	28.69
16-Oct	27.74	28.56	28.50	29.45	28.82
17-Oct	27.62	28.12	28.17	29.08	28.37
18-Oct	27.68	28.57	27.96	28.93	28.27
19-Oct	27.42	28.61	27.96	28.93	28.14
20-Oct	27.36	28.59	27.77	28.97	28.17
21-Oct	27.24	28.09	27.75	28.92	28.00
22-Oct	27.13	27.96	27.70	28.56	27.85
23-Oct	27.07	27.94	27.60	28.56	27.79
24-Oct	26.98	27.95	27.50	27.91	27.59
25-Oct	26.75	27.90	27.24	27.91	27.45
26-Oct	26.61	27.78	27.05	27.36	27.25
27-Oct	25.94	27.70	26.95	27.36	27.07
28-Oct	25.74	27.65	26.77	27.27	26.86
29-Oct	25.68	27.05	26.52	27.27	26.75
30-Oct	25.92	27.42	26.45	27.27	26.77
31-Oct	25.92	27.29	26.45	27.27	26.74
1-Nov	25.91	27.17	26.27	27.52	26.72
2-Nov	25.91	27.08	26.26	27.52	26.69
3-Nov	25.99	27.18	26.26	27.02	26.61
4-Nov	25.97	27.16	26.26	26.98	26.59
5-Nov	25.89	27.25	26.18	26.84	26.55
6-Nov	26.03	27.24	26.07	26.84	26.54
7-Nov	25.79	27.24	25.97	26.83	26.46
8-Nov	25.75	27.25	25.84	26.83	26.42
9-Nov	25.75	27.12	25.53	26.69	26.27
10-Nov	25.75	27.12	25.46	26.54	26.15
11-Nov	25.80	26.71	25.46	26.12	26.02
12-Nov	25.80	26.71	25.46	26.12	26.02
13-Nov	25.80	26.62	25.53	25.98	25.98
14-Nov	25.38	26.65	25.60	25.83	25.71
15-Nov	25.25	26.65	25.60	25.83	25.60
16-Nov	25.27	26.48	25.76	24.91	25.60
17-Nov	25.32	26.35	25.41	24.91	25.50
18-Nov	25.25	26.14	25.27	24.75	25.35
19-Nov	25.22	25.77	25.08	24.48	25.19
20-Nov	25.15	25.74	24.96	24.55	25.10
21-Nov	25.19	25.71	25.03	24.55	25.08
22-Nov	25.00	25.69	24.99	24.24	24.98
23-Nov	24.75	25.54	24.77	24.15	24.83
24-Nov	24.76	25.39	24.60	24.12	24.71
25-Nov	24.75	25.31	24.51	24.08	24.66
26-Nov	24.79	25.23	24.46	23.90	24.59
27-Nov	24.79	25.18	24.45	23.53	24.49
28-Nov	24.79	25.16	24.55	23.60	24.53
29-Nov	24.91	25.09	24.55	23.60	24.52
30-Nov	24.92	24.82	24.11	23.57	24.35
1-Dec	24.92	24.76	24.11	23.57	24.34
2-Dec	24.77	24.66	24.32	23.46	24.30
3-Dec	24.53	24.60	24.29	23.46	24.31
4-Dec	24.45	24.95	24.32	23.35	24.27
5-Dec	24.50	24.80	24.44	23.35	24.27
6-Dec	24.38	24.61	24.33	23.12	24.11
7-Dec	24.39	24.49	23.92	23.12	23.98
8-Dec	24.40	24.50	23.75	22.90	23.89
9-Dec	24.40	24.53	23.61	22.64	23.65
10-Dec	24.44	23.91	23.37	22.38	23.53
11-Dec	24.44	23.91	23.37	22.38	23.53
12-Dec	24.47	23.84	23.37	22.38	23.51
13-Dec	24.32	23.88	23.33	22.10	23.40
14-Dec	24.15	23.88	23.33	22.10	23.36
15-Dec	24.24	23.90	22.30	21.56	23.00
16-Dec	24.28	23.74	22.64	21.56	23.00
17-Dec	24.11	23.90	22.63	21.63	23.07
18-Dec	23.83	23.29	22.63	21.63	22.79
19-Dec	23.83	23.16	22.58	21.24	22.70
20-Dec	23.40	23.13	22.14	20.70	22.34
21-Dec	23.62	23.21	22.07	20.57	22.37
22-Dec	24.06	23.38	22.59	21.04	22.77
23-Dec	23.56	23.40	22.39	21.20	22.63
24-Dec	23.09	23.31	21.84	21.08	22.36
25-Dec	23.16	23.18	21.47	20.93	22.18
26-Dec	23.47	23.20	21.73	20.97	22.34

Appendix 19: Temperature chart at Sitton Bank at 40m, 2015-2018. Feb 29th was excluded.

Date	2015	2016	2017	2018	4 yr. Average
1-Jan		22.42	21.69	21.29	21.80
2-Jan		22.60	21.66	21.29	21.92
3-Jan		22.27	23.03	20.63	21.97
4-Jan		22.49	22.92	20.30	21.92
5-Jan		22.43	22.92	20.34	21.90
6-Jan		22.54	22.79	20.30	21.88
7-Jan		22.68	22.62	20.54	21.95
8-Jan		22.96	22.26	21.66	22.29
9-Jan		22.94	21.98	21.46	22.13
10-Jan		22.70	21.98	21.50	22.00
11-Jan		22.63	22.11	21.08	21.94
12-Jan		22.49	22.11	20.95	21.85
13-Jan		22.31	21.97	20.50	21.60
14-Jan		21.96	22.29	20.34	21.64
15-Jan		22.26	22.74	20.67	21.89
16-Jan		21.81	22.28	20.64	21.58
17-Jan		21.86	22.22	20.22	21.43
18-Jan		21.59	22.22	20.30	21.38
19-Jan		21.89	22.02	18.88	20.93
20-Jan		21.94	21.47	18.88	20.76
21-Jan		21.87	20.34	18.96	20.39
22-Jan		21.38	21.18	19.57	20.73
23-Jan		20.44	21.81	19.65	20.64
24-Jan		20.40	22.31	19.96	20.93
25-Jan		20.27	22.12	19.83	20.74
26-Jan		20.30	22.07	19.61	20.72
27-Jan		20.13	21.82	20.04	20.66
28-Jan		19.97	21.61	20.27	20.62
29-Jan		19.97	21.42	20.27	20.55
30-Jan		20.04	21.38	20.16	20.52
31-Jan		20.34	21.38	19.96	20.70
1-Feb		20.56	20.61	19.05	20.07
2-Feb		20.79	20.35	18.75	19.96
3-Feb		20.62	20.10	19.46	20.06
4-Feb		20.70	20.13	19.58	20.14
5-Feb		20.73	20.48	19.61	19.94
6-Feb		20.40	20.52	19.96	20.29
7-Feb		20.76	20.52	19.91	20.39
8-Feb		20.27	19.52	19.61	19.92
9-Feb		19.36	20.30	19.61	19.82
10-Feb		19.84	20.06	19.95	19.95
11-Feb		19.64	20.04	20.10	19.93
12-Feb		20.20	19.66	20.07	19.98
13-Feb		19.95	19.67	20.49	20.03
14-Feb		19.24	19.86	20.16	19.75
15-Feb		18.19	20.29	20.07	19.51
16-Feb		17.87	20.29	19.91	19.51
17-Feb		18.44	20.50	20.67	19.87
18-Feb		19.61	20.04	20.17	19.95
19-Feb		19.95	20.56	19.57	20.03
20-Feb		20.03	20.56	19.61	20.16
21-Feb		20.05	20.64	20.01	20.23
22-Feb		20.10	20.67	20.30	20.38
23-Feb		20.21	20.60	20.48	20.43
24-Feb		20.49	20.56	20.48	20.51
25-Feb		19.66	20.76	20.35	20.26
26-Feb		19.50	20.60	20.17	20.10
27-Feb		19.30	20.67	20.12	20.02
28-Feb		19.39	20.67	20.30	20.12
1-Mar		19.46	20.64	20.30	19.92
2-Mar		18.79	20.00	20.43	19.74
3-Mar		18.75	20.06	20.21	19.84
4-Mar		19.12	20.18	20.18	19.83
5-Mar		19.15	20.71	20.21	19.97
6-Mar		19.09	20.60	20.03	19.90
7-Mar		19.25	20.23	20.22	19.85
8-Mar		19.21	20.22	20.03	19.82
9-Mar		19.28	20.71	20.12	20.03
10-Mar		19.15	21.30	20.59	20.35
11-Mar		19.57	21.22	20.80	20.49
12-Mar		19.69	20.99	20.57	20.41
13-Mar		19.56	21.17	20.57	20.43
14-Mar		19.35	22.00	20.78	20.71
15-Mar		19.41	22.24	20.88	20.84
16-Mar		19.45	22.49	21.03	20.99
17-Mar		19.42	22.49	21.08	21.00
18-Mar		19.47	22.37	20.76	20.87
19-Mar		19.32	22.02	20.67	20.74
20-Mar		19.37	21.90	21.13	20.80
21-Mar		19.47	21.84	21.13	20.80
22-Mar		19.48	21.82	21.13	20.81
23-Mar		19.59	20.87	21.05	20.50
24-Mar		19.65	21.07	21.00	20.57
25-Mar		19.80	21.13	20.52	20.48
26-Mar		19.80	21.20	20.57	20.52
27-Mar		19.85	21.07	20.75	20.56
28-Mar		19.85	21.13	20.75	20.58
29-Mar		20.14	21.00	20.57	20.62
30-Mar		20.12	21.00	21.46	20.86
31-Mar		20.29	21.51	21.47	21.03
1-Apr		20.36	21.42	21.30	21.03
2-Apr		20.29	21.37	21.30	20.99
3-Apr		20.32	21.27	21.12	20.91
4-Apr		20.32	21.37	21.11	20.93
5-Apr		20.80	21.62	21.22	21.21
6-Apr		20.63	21.52	21.22	21.19
7-Apr		20.47	21.23	21.63	21.11
8-Apr		20.43	21.31	21.61	21.12
9-Apr		20.65	21.55	21.74	21.31
10-Apr		20.55	21.28	21.74	21.19
11-Apr		20.64	21.34	22.02	21.33
12-Apr		20.54	21.24	22.00	21.26
13-Apr		20.63	21.17	22.01	21.27
14-Apr		20.66	21.17	21.96	21.26
15-Apr		20.67	22.72	21.88	21.79
16-Apr		20.84	23.25	21.84	21.98
17-Apr		20.95	22.99	21.84	21.92
18-Apr		20.97	21.83	21.92	21.43
19-Apr		21.08	23.74	22.24	22.35
20-Apr		21.10	23.91	21.96	22.32
21-Apr		21.06	23.96	21.96	22.34
22-Apr		21.09	22.74	21.94	21.92
23-Apr		21.16	22.74	21.94	21.92
24-Apr		21.21	22.21	21.97	21.60
25-Apr		21.23	22.26	21.97	21.62
26-Apr		21.30	21.06	21.97	21.48
27-Apr		21.34	20.99	21.97	21.43
28-Apr		21.30	21.14	22.04	21.50
1-May		21.31	22.74	22.06	22.04
2-May		21.45	22.74	22.06	22.07
3-May		21.44	22.19	22.25	21.95
4-May		21.54	22.41	22.29	22.08
5-May		21.55	24.41	22.16	22.70
6-May		21.44	24.50	22.16	22.77
7-May		21.47	24.52	22.03	22.68
8-May		21.45	24.10	22.08	22.54
9-May		21.69	24.44	22.44	22.86
10-May		21.95	24.62	22.44	22.99
11-May		22.18	24.57	22.86	23.20
12-May		22.40	24.50	22.57	23.30
13-May		22.42	25.00	22.60	23.34
14-May		22.54	24.57	22.60	23.24
15-May		22.96	23.24	21.78	22.66
16-May		22.92	22.74	21.78	22.48
17-May		22.85	23.13	21.88	22.62
18-May		22.61	23.01	21.88	22.50
19-May		22.70	23.88	22.32	22.96
20-May		22.75	23.88	22.32	22.97
21-May		22.75	23.81	22.32	22.97
22-May		22.54	23.13	22.38	22.69
23-May		22.67	23.13	22.38	22.72
24-May		22.59	23.65	22.57	22.94
25-May		22.95	23.10	22.60	22.88
26-May		23.08	23.74	22.54	23.12
27-May		23.04	23.84	22.57	23.16
1-Jun		22.98	22.82	22.45	22.75
2-Jun		22.96	22.82	22.54	22.71
3-Jun		22.75	22.64	22.52	22.64
4-Jun		22.93	22.82	22.57	22.77
5-Jun		23.11	22.90	22.88	22.96
6-Jun		22.92	23.13	22.88	22.98
7-Jun		22.70	23.05	22.89	22.88
8-Jun		22.70	22.82	22.89	22.80
9-Jun		23.10	22.56	23.33	22.99
10-Jun		23.01	22.29	23.63	22.88
11-Jun		23.09	21.92	23.41	22.81
12-Jun		23.13	22.29	23.41	22.96
13-Jun		23.27	21.98	23.04	22.76
14-Jun		23.23	22.65	22.80	22.92
15-Jun		23.17	22.46	22.76	22.79
16-Jun		23.08	22.46	22.76	22.77
17-Jun		23.17	22.44	22.79	22.80
18-Jun		23.59	22.38	22.67	22.88
19-Jun		23.74	22.45	22.79	22.99
20-Jun		23.82	22.62	22.79	23.07
21-Jun		23.87	22.37	22.88	23.04
22-Jun		23.87	22.35	22.88	23.03
23-Jun		23.87	22.35	22.88	23.03
24-Jun		23.68	22.67	22.51	22.95
25-Jun	25.02	23.34	22.60	22.51	23.54
26-Jun	25.15	23.71	22.84	22.81	23.63
27-Jun	25.14	23.84	22.85		23.79
28-Jun	25.16	23.65	23.14		23.98
29-Jun	25.32	23.93	22.52	25.91	24.52
30-Jun	26.16	24.06	22.94	26.49	24.91
1-Jul	25.63	24.42	22.94	26.49	24.87
2-Jul	26.63	23.85	24.00	25.46	24.99
3-Jul	26.31	23.94	24.00	25.46	24.93
4-Jul	26.03	24.06	24.67	25.35	25.03
5-Jul	25.78	24.13	24.38	25.35	25.17
6-Jul	25.75	24.18	24.93	25.60	25.37
7-Jul	25.61	24.33	24.93	25.21	25.27
8-Jul	26.06	24.19	24.37	24.94	24.89
9-Jul	26.49	24.06	24.46	24.94	24.95
10-Jul	26.38	24.22	24.72	24.88	25.05
11-Jul	26.17	24.29	24.72	24.88	25.02
12-Jul	26.20	24.75	24.61	25.67	25.31
13-Jul	26.24	24.74	25.71	25.43	25.53
14-Jul	26.51	24.93	24.63	25.55	25.40
15-Jul	26.52	24.96	24.54	25.55	25.32
16-Jul	26.56	24.74	24.54	24.93	25.19
17-Jul	26.79	24.74	24.96	26.00	25.62
18-Jul	26.60	25.16	24.63	25.67	25.52
19-Jul	26.77	25.16	24.63	25.67	25.56
20-Jul	26.77	24.66	24.63	25.67	25.44
21-Jul	26.70	24.86	24.22	27.31	25.77
22-Jul	26.48	24.88	24.36	26.41	25.48
23-Jul	26.71	24.73	24.45	26.69	25.65
24-Jul	26.20	24.66	24.30	26.31	25.62
25-Jul	26.70	24.86	24.22	27.31	25.77
26-Jul	26.48	24.88	24.36	26.41	25.48
27-Jul	26.45	24.32	24.51	25.75	25.00
28-Jul	24.22	23.80	25.81	25.75	24.90
29-Jul	23.38	24.01	26.03	27.79	25.31
30-Jul	22.63	24.42	27.66	27.71	25.60
31-Jul	22.76	23.88	29.44	25.11	25.55
1-Aug	22.58	23.87	29.00	25.11	25.23
2-Aug	22.53	23.56	28.67	24.96	24.84
3-Aug	22.53	23.42	29.25	25.75	25.15
4-Aug	22.79	23.00	28.58	25.80	25.04
5-Aug	24.25	22.64	28.58	25.80	24.79
6-Aug	26.35	22.73	26.76	24.72	25.14
7-Aug	26.35	22.67	26.42	24.87	25.29
8-Aug	28.45	23.05	26.37	25.17	25.76
9-Aug	27.56	22.86	26.37	25.17	25.49
10-Aug	27.13	23.39	26.74	25.59	25.71
11-Aug	25.42	23.42	26.84	25.59	25.53
12-Aug	25.50	23.44	25.49	24.48	24.73
13-Aug	25.41	24.33	24.64	25.21	24.90
14-Aug	25.65	23.95	25.72	24.59	24.98
15-Aug	25.79	23.95	26.21	24.59	25.14
16-Aug	23.42	23.92	25.66	26.71	24.93
17-Aug	23.12	24.22	25.66	26.71	24.93
18-Aug	24.04	23.95	25.87	24.87	24.68
19-Aug	24.04	23.95	25.87	24.87	24.68
20-Aug	24.04	24.08	25.36	25.07	24.64
21-Aug	25.18	24.39	24.63	24.51	24.68
22-Aug	25.73	24.55	24.63	24.51	24.94
23-Aug	25.37	24.70	24.47	24.99	24.88
24-Aug	25.26	25.76	24.11	24.99	25.23
25-Aug	26.05	24.62	24.85	24.97	25.12
26-Aug	25.68	24.51	24.85	24.97	25.00
27-Aug	25.45	24.21	25.29	24.27	24.81
28-Aug	24.82	24.23	24.73	24.07	24.49
29-Aug	26.07	23.12	24.10	24.07	24.34
30-Aug	26.49	23.01	24.10	24.07	24.42
31-Aug	27.94	23.27	24.97	23.76	24.88
1-Sep	28.49	23.39	24.12	23.61	25.10
2-Sep	28.68	24.71	23.84	23.35	25.14
3-Sep	28.35	25.13	23.84	23.35	25.23
4-Sep	27.71	25.61	24.47	24.24	25.51
5-Sep	28.20	25.78	25.29	24.06	25.83
6-Sep	28.30	26.23	26.05	24.36	26.24
7-Sep	28.49	27.14	26.42	24.36	26.59
8-Sep	28.00	27.87	26.88	24.40	26.79
9-Sep	27.56	27.40	27.43	24.80	27.04
10-Sep	27.56	28.92	24.44	25.23	26.35
11-Sep	26.92	29.59	24.44	25.23	26.54
12-Sep	25.62	28.87	23.75	25.24	25.87
13-Sep	24.18	28.36	25.19	25.14	25.72
14-Sep	23.95	24.93	25.82	24.57	24.82
15-Sep	23.81	25.06	24.33	24.57	24.69
16-Sep	23.56	25.56	25.08	25.10	24.91
17-Sep	23.56	25.56	25.08	25.10	24.91
18-Sep	23.59	26.97	26.28	26.14	26.27
19-Sep	23.59	26.98	25.93	25.64	26.29
20-Sep	23.31	28.24	26.60	25.64	26.28
21-Sep	23.57	27.78	26.79	25.75	25.97
22-Sep	23.57	27.25	27.16	25.81	25.95
23-Sep	23.57	27.16	26.75	25.93	25.85
24-Sep	23.58	28.13	27.02	25.93	26.02
25-Sep	26.38	28.20	27.14	25.12	26.71
26-Sep	24.62	27.23	27.44	24.56	26.06
27-Sep	24.40	26.70	28.51	25.50	26.28
28-Sep	24.37	27.39	28.51	25.50	26.42
29-Sep	23.78	27.69	28.66	25.83	26.49
30-Sep	23.78	28.32	28.81	26.47	26.76
1-Oct	23.45	28.04	28.10	27.11	26.67
2-Oct	24.40	27.74	27.91	26.97	26.76
3-Oct	24.83	27.72	29.02	27.84	27.35
4-Oct	25.12	27.78	28.94	27.82	27.39
5-Oct	25.34	27.00	28.03	27.96	27.08
6-Oct	25.84	26.35	27.78	28.45	27.10
7-Oct	25.81	25.69	27.62	28.45	26.89
8-Oct	25.54	25.62	27.77	28.90	26.88
9-Oct	25.60	25.76	27.52	28.15	26.76
10-Oct	25.68	26.11	27.52	28.15	26.87
11-Oct	25.44	25.88	27.90	27.05	26.57
12-Oct	25.44	25.88	27.79	27.05	26.49
13-Oct	26.53	25.39	27.39	29.12	27.11
14-Oct	26.53	25.39	27.39	29.12	27.11
15-Oct	27.35	26.35	28.12	29.07	27.47
16-Oct	27.56	26.70	28.24	29.07	27.64
17-Oct	27.56	26.44	28.24	28.90	27.70
18-Oct	26.94	27.28	27.98	28.80	27.75
19-Oct	27.42	26.98	27.98	28.80	27.79
20-Oct	27.34	26.68	27.85	28.94	27.70
21-Oct	27.34	26.61	27.80	28.17	27.58
22-Oct	27.19	27.88	27.78	28.55	27.85
23-Oct	27.07	27.86	27.80	28.55	27.82
24-Oct	26.97	27.94	27.58	27.92	27.60
25-Oct	26.72	27.81	27.31	27.92	27.44
26-Oct	26.02	27.81	27.13	27.36	27.08
27-Oct	25.90	27.73	27.13	27.36	27.03
28-Oct	25.70	27.67	26.85	27.27	26.87
29-Oct	25.46	27.67	26.58	27.27	26.77
30-Oct	25.83	27.44	26.53	27.27	26.77
31-Oct	25.61	27.32	26.53	26.78	26.77
1-Nov	25.88	27.20	26.25	27.52	26.71
2-Nov	26.07	27.20	26.24	27.52	26.76
3-Nov	26.03	27.20	26.25	27.02	26.62
4-Nov	25.99	27.18	26.25	26.78	26.55
5-Nov	25.91	27.28	26.17	26.84	26.55
6-Nov	25.91	27.27	26.05	26.84	26.52
7-Nov	25.89	27.25	25.88	26.63	26.46
8-Nov	25.89	27.25	25.88	26.63	26.46
9-Nov	25.77	27.12	25.52	26.69	26.28
10-Nov	25.77	27.25	25.46	26.52	26.17
11-Nov	25.80	26.86	25.45	26.69	26.05
12-Nov	25.80	26.86	25.45	26.69	26.05
13-Nov	25.78	26.64	25.61	26.69	26.08
14-Nov	25.80	26.49	25.61	26.34	25.72
15-Nov	25.74	26.00	25.61	26.34	25.61
16-Nov	25.28	25.51	25.77	24.91	25.12
17-Nov	25.33	26.36	25.77	24.91	25.34
18-Nov	25.26	26.16	25.29	24.76	25.37
19-Nov	25.14	25.80	25.08	24.76	25.20
20-Nov	25.17	25.77	24.95	24.56	25.11
21-Nov	25.21	25.74	25.03	24.56	25.10
22-Nov	25.01	25.72	24.97	24.25	24.99
23-Nov	24.88	25.56	24.77	24.15	24.84
24-Nov	24.79	25.38	24.59	24.12	24.72
25-Nov	24.75	25.38	24.59	24.12	24.69
26-Nov	24.80	25.26	24.40	23.90	24.59
27-Nov	24.85	25.19	24.24	23.70	24.49
28-Nov	24.80	25.19	24.32	23.61	24.48
29-Nov	24.92	25.12	24.41	23.61	24.51
30-Nov	24.93	24.85	24.10	23.56	24.36
1-Dec	24.68	24.85	24.10	23.56	24.30
2-Dec	24.78	24.68	24.31	23.47	24.31
3-Dec	24.55	25.04	24.26	23.47	24.32
4-Dec	24.47	24.99	24.29	23.36	24.28
5-Dec	24.60	24.84	24.25	23.36	24.23
6-Dec	24.60	24.84	24.22	23.12	24.10
7-Dec	24.48	24.43	24.22	23.12	23.95
8-Dec	24.42	24.53	23.74	22.91	23.90
9-Dec	24.39	24.28	23.53	22.82	23.67
10-Dec	24.46	24.34	23.37	22.39	23.59
11-Dec	24.46	24.34	23.37	22.39	23.59
12-Dec	24.39	23.88	23.19	22.39	23.40
13-Dec	24.33	23.93	23.29	22.10	23.41
14-Dec	24.33	23.93	23.29	22.10	23.41
15-Dec	24.26	23.95	22.77	21.57	23.39
16-Dec	24.28	23.77	22.44	21.57	23.26
17-Dec	24.13	23.52	22.60	21.63	23.07
18-Dec	23.65	23.31	22.60	21.63	22.79
19-Dec	23.83	23.50	22.89	21.93	23.04
20-Dec	23.79	23.28	22.79	21.70	22.88
21-Dec	23.77	23.37	22.64	21.15	22.73
22-Dec	23.65	23.31	22.50	21.25	22.68
23-Dec	23.85	23.19	22.56	21.25	22.71
24-Dec	23.80	23.20	22.21	21.21	22.59
25-Dec	23.40	23.15	21.89	20.71	22.28
26-Dec	23.54	23.18	21.99	20.58	22.32
27-Dec	23.04	23.25	22.27	21.04	22.65
28-Dec	23.58	23.35	22.21	21.27	22.79
29-Dec	23.22	23.24	21.66	21.09	22.30
30-Dec	23.18	23.18	21.51	20.94	22.20
31-Dec	23.25	23.22	21.62	20.98	22.27

Appendix 20: Sotiriy Ljubov and Sletson Bank at Jan. 2015–2018: Feb 29th was excluded.

Date	2015	2016	2017	2018	9 yr. Average
1-Jan	36.50	36.50	36.21	36.17	36.32
2-Jan	36.50	36.50	36.21	36.17	36.32
3-Jan	36.50	36.52	36.21	36.15	36.30
4-Jan	36.50	36.52	36.22	36.14	36.31
5-Jan	36.50	36.53	36.22	36.21	36.32
6-Jan	36.50	36.53	36.22	36.18	36.32
7-Jan	36.50	36.26	36.26	36.23	36.33
8-Jan	36.51	36.25	36.27	36.26	36.33
9-Jan	36.51	36.26	36.26	36.25	36.33
10-Jan	36.52	36.26	36.27	36.25	36.33
11-Jan	36.54	36.29	36.29	36.23	36.33
12-Jan	36.53	36.29	36.29	36.24	36.34
13-Jan	36.53	36.29	36.29	36.24	36.34
14-Jan	36.54	36.28	36.29	36.24	36.34
15-Jan	36.54	36.27	36.34	36.29	36.34
16-Jan	36.54	36.27	36.33	36.29	36.34
17-Jan	36.55	36.26	36.31	36.31	36.34
18-Jan	36.54	36.24	36.29	36.31	36.32
19-Jan	36.53	36.24	36.29	36.32	36.34
20-Jan	36.53	36.25	36.26	36.30	36.33
21-Jan	36.53	36.25	36.19	36.28	36.31
22-Jan	36.54	36.25	36.19	36.28	36.31
23-Jan	36.52	36.24	36.26	36.30	36.33
24-Jan	36.52	36.25	36.30	36.31	36.31
25-Jan	36.53	36.24	36.29	36.33	36.32
26-Jan	36.53	36.22	36.29	36.33	36.32
27-Jan	36.53	36.21	36.34	36.34	36.33
28-Jan	36.52	36.24	36.34	36.33	36.33
29-Jan	36.52	36.24	36.34	36.33	36.34
30-Jan	36.52	36.24	36.34	36.33	36.34
31-Jan	36.52	36.24	36.34	36.33	36.34
1-Feb	36.52	36.23	36.25	36.34	36.33
2-Feb	36.51	36.24	36.24	36.34	36.34
3-Feb	36.52	36.24	36.12	36.35	36.33
4-Feb	36.50	36.25	36.11	36.34	36.32
5-Feb	36.47	36.05	36.21	36.36	36.31
6-Feb	36.49	36.21	36.21	36.35	36.34
7-Feb	36.50	36.23	36.13	36.35	36.33
8-Feb	36.50	36.18	36.14	36.35	36.32
9-Feb	36.49	36.13	35.68	36.36	36.26
10-Feb	36.50	36.39	35.65	36.36	36.27
11-Feb	36.45	36.26	35.66	36.34	36.25
12-Feb	36.50	36.23	35.48	36.34	36.22
13-Feb	36.48	36.14	35.57	36.33	36.24
14-Feb	36.47	35.99	35.66	36.33	36.23
15-Feb	36.47	35.78	35.72	36.35	36.20
16-Feb	36.47	35.87	35.77	36.34	36.21
17-Feb	36.49	36.05	35.78	36.31	36.30
18-Feb	36.49	36.25	35.67	36.31	36.31
19-Feb	36.47	36.44	35.83	36.31	36.36
20-Feb	36.47	36.44	35.82	36.31	36.35
21-Feb	36.47	36.43	35.80	36.32	36.34
22-Feb	36.47	36.43	35.77	36.31	36.35
23-Feb	36.49	36.42	35.75	36.31	36.35
24-Feb	36.49	36.42	35.81	36.32	36.35
25-Feb	36.48	36.18	35.81	36.32	36.32
26-Feb	36.47	36.18	35.83	36.31	36.32
27-Feb	36.49	35.98	35.82	36.33	36.30
28-Feb	36.50	35.99	35.81	36.33	36.29
29-Feb	36.49	36.02	35.79	36.33	36.29
1-Mar	36.51	35.74	35.82	36.31	36.24
2-Mar	36.49	35.87	35.80	36.32	36.24
3-Mar	36.48	35.88	35.81	36.32	36.24
4-Mar	36.50	35.73	35.92	36.33	36.25
5-Mar	36.51	35.88	35.87	36.34	36.27
6-Mar	36.51	35.96	35.86	35.35	36.25
7-Mar	36.51	35.80	35.88	36.35	36.22
8-Mar	36.51	35.90	36.14	36.30	36.23
9-Mar	36.49	36.01	36.09	36.31	36.27
10-Mar	36.47	36.23	35.99	36.33	36.29
11-Mar	36.47	36.08	36.04	36.33	36.29
12-Mar	36.47	36.03	36.19	36.37	36.30
13-Mar	36.48	35.80	36.21	36.38	36.28
14-Mar	36.48	35.81	36.23	36.37	36.28
15-Mar	36.48	35.88	36.18	36.38	36.28
16-Mar	36.48	35.83	36.18	36.38	36.28
17-Mar	36.47	35.70	36.11	36.38	36.26
18-Mar	36.47	35.78	36.11	36.38	36.26
19-Mar	36.45	35.58	36.16	36.38	36.20
20-Mar	36.44	35.57	36.11	36.38	36.18
21-Mar	36.46	35.57	36.11	36.37	36.19
22-Mar	36.47	35.60	35.92	36.36	36.12
23-Mar	36.44	35.49	36.00	36.34	36.08
24-Mar	36.46	35.39	35.97	36.34	36.07
25-Mar	36.39	35.41	35.94	36.30	35.95
26-Mar	36.41	35.41	35.94	36.29	35.95
27-Mar	36.39	35.57	35.95	36.27	35.97
28-Mar	36.42	35.61	35.95	36.27	35.99
29-Mar	36.42	35.63	35.96	36.27	36.00
30-Mar	36.41	35.87	35.97	36.24	36.14
31-Mar	36.39	35.75	36.00	36.26	36.08
1-Apr	36.43	35.77	35.99	36.33	36.20
2-Apr	36.43	35.89	35.99	36.33	36.21
3-Apr	36.43	35.95	35.88	36.29	36.15
4-Apr	36.27	35.98	35.82	36.29	36.11
5-Apr	36.27	35.95	35.55	36.28	36.09
6-Apr	36.40	35.88	35.77	36.28	36.18
7-Apr	36.38	35.81	35.15	36.28	35.96
8-Apr	36.35	35.79	34.94	36.29	35.89
9-Apr	36.40	35.84	35.56	36.29	35.99
10-Apr	36.34	35.86	35.96	36.29	35.96
11-Apr	36.23	35.67	35.27	36.30	35.89
12-Apr	36.20	35.64	35.21	36.32	35.90
13-Apr	36.24	35.87	35.24	36.32	35.93
14-Apr	36.22	35.89	35.22	36.32	35.91
15-Apr	36.22	35.97	35.59	36.35	36.04
16-Apr	36.24	35.99	35.97	36.36	36.13
17-Apr	36.21	36.06	35.97	36.35	36.09
18-Apr	36.22	36.08	36.03	36.35	36.11
19-Apr	36.36	36.03	36.03	36.37	36.14
20-Apr	36.21	36.03	35.97	36.41	36.15
21-Apr	36.28	36.01	35.88	36.36	36.12
22-Apr	36.28	35.95	35.78	36.36	36.09
23-Apr	36.24	35.95	35.68	36.35	36.09
24-Apr	36.24	35.87	35.61	36.35	36.03
25-Apr	36.24	35.87	35.56	36.35	36.02
26-Apr	36.24	35.88	35.56	36.35	36.03
27-Apr	36.24	35.92	35.57	36.35	36.05
28-Apr	36.28	35.92	35.39	36.29	35.98
29-Apr	36.24	35.87	35.56	36.35	36.02
30-Apr	36.21	35.83	35.82	36.37	35.98
1-May	36.21	35.83	35.82	36.37	35.98
2-May	36.25	36.03	35.52	35.98	35.90
3-May	36.28	36.07	35.36	35.88	35.89
4-May	36.25	35.99	35.98	35.76	35.94
5-May	36.21	35.94	35.91	35.77	35.92
6-May	36.22	35.86	36.14	35.80	35.93
7-May	36.21	35.89	36.34	35.80	35.92
8-May	36.20	35.92	36.37	35.69	35.92
9-May	36.23	35.95	36.39	35.67	35.92
10-May	36.17	35.96	36.27	35.69	35.90
11-May	36.22	35.98	36.31	35.87	36.01
12-May	36.18	35.93	36.26	35.98	36.06
13-May	36.16	35.94	36.21	35.98	36.02
14-May	36.23	35.96	36.25	35.64	36.02
15-May	36.13	35.98	36.35	35.71	36.07
16-May	36.11	35.93	36.14	35.96	35.95
17-May	36.13	35.90	36.21	35.98	36.04
18-May	36.20	35.82	36.12	35.92	35.98
19-May	36.13	35.98	36.15	35.92	36.07
20-May	36.11	35.93	36.14	35.96	35.99
21-May	36.13	35.96	36.21	35.98	36.07
22-May	36.14	35.74	36.05	36.06	35.96
23-May	36.12	35.76	36.09	36.06	35.97
24-May	36.06	35.74	35.97	36.01	35.89
25-May	35.98	35.54	36.04	35.86	35.79
26-May	36.03	35.56	36.09	35.87	35.78
27-May	36.01	35.64	36.09	35.72	35.77
28-May	35.97	35.58	36.36	35.67	35.82
29-May	35.94	35.62	36.50	35.68	35.78
30-May	35.90	35.68	36.48	35.74	35.80
31-May	35.84	35.71	36.38	35.91	35.86
1-Jun	35.84	35.80	36.28	35.75	35.86
2-Jun	35.80	35.57	36.40	35.65	35.75
3-Jun	35.83	35.56	36.44	35.63	35.71
4-Jun	35.88	35.42	36.42	35.76	35.68
5-Jun	35.90	35.58	36.42	35.61	35.72
6-Jun	35.96	35.60	36.40	35.57	35.61
7-Jun	35.96	35.60	36.40	35.57	35.61
8-Jun	35.97	35.64	36.41	35.59	35.65
9-Jun	36.00	35.71	36.34	35.80	35.57
10-Jun	36.00	35.74	36.38	35.73	35.59
11-Jun	36.08	35.80	36.34	35.39	35.57
12-Jun	36.08	35.80	36.43	35.39	35.48
13-Jun	36.12	35.80	36.43	34.23	35.44
14-Jun	36.14	35.87	36.45	34.21	35.37
15-Jun	36.14	35.83	36.45	34.34	35.36
16-Jun	36.14	35.37	36.83	34.34	35.37
17-Jun	35.22	35.86	36.02	34.38	35.29
18-Jun	35.21	35.86	35.49	34.80	35.23
19-Jun	35.24	35.90	35.85	35.03	35.17
20-Jun	35.24	35.87	35.83	35.03	35.17
21-Jun	35.26	35.89	35.83	35.16	35.16
22-Jun	35.26	35.94	35.83	35.16	35.18
23-Jun	35.26	35.94	36.13	34.61	35.10
24-Jun	35.27	35.68	36.29	34.77	35.15
25-Jun	35.28	35.25	36.45	34.69	35.13
26-Jun	35.21	35.78	35.56	34.67	35.31
27-Jun	35.15	35.77	35.69	34.90	35.44
28-Jun	35.07	35.81	35.90	35.71	35.52
29-Jun	35.03	35.83	35.91	35.74	35.50
30-Jun	35.04	35.57	35.89	35.77	35.52
1-Jul	34.88	35.36	35.74	35.85	35.25
2-Jul	34.88	35.32	35.68	35.84	35.20
3-Jul	34.87	35.13	35.49	35.87	35.11
4-Jul	34.93	34.81	35.26	35.12	35.19
5-Jul	34.52	34.53	35.77	35.70	35.14
6-Jul	34.12	33.88	36.00	35.79	35.01
7-Jul	34.01	33.88	35.94	35.92	35.02
8-Jul	33.79	33.90	35.66	35.79	35.13
9-Jul	33.69	34.18	35.86	35.78	35.17
10-Jul	33.76	33.85	35.80	35.76	35.06
11-Jul	33.76	33.76	35.60	35.77	35.04
12-Jul	33.74	33.09	35.43	36.08	35.01
13-Jul	33.74	32.71	35.63	36.09	34.91
14-Jul	33.34	32.39	36.04	35.95	34.92
15-Jul	33.49	32.71	36.04	35.95	34.98
16-Jul	33.57	32.51	35.59	35.75	34.88
17-Jul	33.44	32.74	35.82	35.70	34.92
18-Jul	33.68	32.67	35.73	35.51	35.02
19-Jul	33.65	32.98	35.73	35.51	35.08
20-Jul	33.42	32.96	35.69	35.51	35.07
21-Jul	34.11	33.69	36.28	34.88	35.24
22-Jul	34.29	34.13	36.29	35.06	35.27
23-Jul	34.79	34.72	36.31	35.15	35.38
24-Jul	35.58	34.99	36.32	35.39	35.49
25-Jul	35.54	35.10	35.39	35.39	35.32
26-Jul	35.09	35.05	36.40	35.52	35.37
27-Jul	35.53	35.73	36.40	35.43	35.60
28-Jul	35.54	35.88	36.43	35.84	35.67
29-Jul	35.42	35.88	36.42	35.81	35.67
30-Jul	35.42	35.90	36.43	35.69	35.69
31-Jul	35.53	35.92	36.41	35.69	35.69
1-Aug	35.11	35.95	36.42	35.38	35.64
2-Aug	35.76	35.79	36.44	36.16	35.79
3-Aug	35.95	35.88	36.46	36.19	35.87
4-Aug	35.95	35.95	36.46	36.24	35.94
5-Aug	35.99	35.97	36.40	36.25	35.95
6-Aug	35.96	35.94	36.41	36.27	35.94
7-Aug	35.95	35.94	36.41	36.27	35.94
8-Aug	35.95	35.95	36.46	36.24	35.95
9-Aug	35.99	35.97	36.40	36.25	35.95
10-Aug	35.96	35.84	36.41	36.27	35.94
11-Aug	35.97	35.79	36.44	36.24	35.94
12-Aug	36.05	35.44	36.44	36.21	35.78
13-Aug	35.98	35.17	36.43	36.17	35.69
14-Aug	36.05	35.63	36.46	36.24	35.90
15-Aug	36.22	35.59	36.39	36.20	35.90
16-Aug	36.10	35.96	36.41	36.31	36.13
17-Aug	36.13	36.08	36.41	36.31	36.18
18-Aug	36.18	36.01	36.41	36.31	36.18
19-Aug	36.18	36.08	36.41	36.31	36.20
20-Aug	36.18	36.08	36.39	36.32	36.20
21-Aug	36.25	36.09	36.41	36.32	36.22
22-Aug	36.30	36.53	36.42	36.32	36.32
23-Aug	36.26	36.21	36.39	36.35	36.29
24-Aug	36.37	36.29	36.45	36.37	36.39
25-Aug	36.38	36.29	36.48	36.39	36.39
26-Aug	36.39	36.29	36.47	36.39	36.39
27-Aug	36.37	36.30	36.47	36.36	36.38
28-Aug	36.35	36.29	36.47	36.36	36.37
29-Aug	36.24	36.29	36.51	36.37	36.39
30-Aug	36.23	36.28	36.51	36.37	36.39
31-Aug	36.14	36.28	36.49	36.35	36.35
1-Sep	36.20	36.28	36.45	36.35	36.33
2-Sep	36.06	36.29	36.45	36.35	36.32
3-Sep	36.12	36.28	36.43	36.35	36.31
4-Sep	36.07	36.27	36.43	36.34	36.30
5-Sep	36.09	36.28	36.44	36.36	36.31
6-Sep	36.23	36.27	36.45	36.35	36.33
7-Sep	36.09	36.27	36.44	36.34	36.31
8-Sep	36.11	36.27	36.44	36.35	36.31
9-Sep	36.10	36.27	36.44	36.37	36.32
10-Sep	36.07	36.27	36.44	36.37	36.31
11-Sep	36.12	36.04	36.41	36.39	36.29
12-Sep	36.12	35.85	36.39	36.39	36.29
13-Sep	35.85	35.79	36.40	36.39	36.23
14-Sep	35.89	35.85	36.39	36.39	36.29
15-Sep	35.90	35.85	36.39	36.39	36.29
16-Sep	35.95	35.66	36.35	36.35	36.21
17-Sep	35.95	35.66	36.35	36.35	36.21
18-Sep	35.95	35.66	36.35	36.35	36.21
19-Sep	35.99	35.66	36.36	36.35	36.23
20-Sep	36.00	35.76	36.29	36.26	36.22
21-Sep	36.15	36.21	36.26	36.27	36.27
22-Sep	36.14	36.23	36.54	36.30	36.30
23-Sep	36.19	36.15	36.35	36.35	36.26
24-Sep	36.31	36.18	36.22	36.32	36.26
25-Sep	36.32	36.09	36.34	36.31	36.27
26-Sep	36.25	36.25	36.32	36.24	36.27
27-Sep	36.22	36.29	36.33	36.31	36.28
28-Sep	36.23	36.28	36.33	36.31	36.28
29-Sep	36.23	36.10	36.33	36.29	36.23
30-Sep	36.25	36.13	36.23	36.25	36.22
1-Oct	36.29	35.95	36.23	36.25	36.22
2-Oct	36.14	35.83	36.22	36.25	36.21
3-Oct	35.90	35.72	36.38	36.22	36.22
4-Oct	35.81	35.81	36.34	36.21	36.21
5-Oct	35.69	35.92	36.36	36.22	36.22
6-Oct	35.82	36.10	36.39	36.26	36.29
7-Oct	35.98	35.88	36.40	36.26	36.29
8-Oct	36.00	35.92	36.40	36.26	36.29
9-Oct	35.92	35.88	36.24	36.18	36.12
10-Oct	35.95	35.66	36.34	36.19	36.19
11-Oct	36.07	35.73	36.43	36.24	36.17
12-Oct	35.95	35.71	36.43	36.22	36.16
13-Oct	35.81	35.68	36.38	36.20	36.12
14-Oct	35.81	35.68	36.38	36.20	36.12
15-Oct	35.98	35.68	36.38	36.20	36.12
16-Oct	35.98	35.68	36.46	36.27	36.17
17-Oct	35.73	36.15	36.38	36.22	36.19
18-Oct	36.11	36.07	36.37	36.24	36.20
19-Oct	36.11	35.98	36.33	36.27	36.21
20-Oct	36.40	35.92	36.26	36.26	36.29
21-Oct	36.40	36.13	36.20	36.27	36.27
22-Oct	36.39	36.09	36.11	36.26	36.20
23-Oct	36.35	36.09	36.06	36.24	36.19
24-Oct	36.07	36.12	35.92	36.20	36.07
25-Oct	36.09	36.21	35.93	36.23	36.07
26-Oct	35.82	36.24	35.95	36.23	36.07
27-Oct	36.03	36.25	35.97	36.23	36.12
28-Oct	36.05	36.26	35.95	36.21	36.12
29-Oct	36.02	36.20	35.89	36.18	36.07
30-Oct	35.99	36.22	35.89	36.21	36.08
31-Oct	36.09	36.17	36.10	36.22	36.12
1-Nov	36.07	36.17	36.07	36.21	36.11
2-Nov	36.13	36.21	36.05	36.23	36.14
3-Nov	36.17	36.24	36.07	36.22	36.17
4-Nov	36.11	36.25	36.10	36.21	36.17
5-Nov	36.19	36.29	36.09	36.25	36.20
6-Nov	36.19	36.29	36.17	36.22	36.22
7-Nov	36.19	36.29	36.17	36.17	36.21
8-Nov	36.36	36.08	36.16	36.10	36.29
9-Nov	36.36	36.09	36.19	36.12	36.31
10-Nov	36.35	35.92	36.27	36.20	36.29
11-Nov	36.35	35.92	36.27	36.20	36.29
12-Nov	36.35	35.92	36.27	36.20	36.29
13-Nov	36.35	35.92	36.27	36.20	36.29
14-Nov	36.34	35.97	36.16	36.20	36.30
15-Nov	36.34	36.12	36.16	36.20	36.30
16-Nov	36.37	36.14	36.13	36.23	36.34
17-Nov	36.35	36.12	35.99	36.23	36.34
18-Nov	36.35	36.12	35.99	36.23	36.34
19-Nov	36.40	36.10	36.14	36.24	36.34
20-Nov	36.40	36.17	36.11	36.21	36.38
21-Nov	36.41	36.18	36.11	36.21	36.38
22-Nov	36.39	36.20	36.14	36.23	36.38
23-Nov	36.40	36.17	36.14	36.24	36.38
24-Nov	36.41	36.14	36.14	36.24	36.34
25-Nov	36.41	36.15	36.14	36.24	36.34
26-Nov	36.41	36.14	36.03	36.29	36.34
27-Nov	36.40	36.18	36.12	36.31	36.35
28-Nov	36.37	36.18	36.17	36.32	36.36
29-Nov	36.38	36.21	36.17	36.32	36.37
30-Nov	36.38	36.21	36.23	36.35	36.37
1-Dec	36.37	36.22	36.34	36.35	36.38
2-Dec	36.37	36.22	36.26	36.31	36.37
3-Dec	36.37	36.22	36.21	36.31	36.37
4-Dec	36.40	36.17	36.17	36.35	36.36
5-Dec	36.43	36.17	36.11	36.37	36.37
6-Dec	36.41	36.09	36.07	36.34	36.34
7-Dec	36.40	36.15	36.16	36.28	36.37
8-Dec	36.39	36.15	36.20	36.30	36.35
9-Dec	36.38	36.16	36.20	36.30	36.35
10-Dec	36.38	36.16	36.21	36.31	36.35
11-Dec	36.37	36.15	36.13	36.31	36.37
12-Dec	36.37	36.16	36.13	36.31	36.37
13-Dec	36.37	36.16	36.13	36.31	36.37
14-Dec	36.37	36.16	36.13	36.31	36.37
15-Dec	36.37	36.16	36.13	36.31	36.37
16-Dec	36.37	36.16	36.13	36.31	36.37
17-Dec	36.37	36.16	36.13	36.31	36.37
18-Dec	36.37	36.16	36.13	36.31	36.37
19-Dec	36.37	36.16	36.13	36.31	36.37
20-Dec	36.34	36.18	36.07	36.35	36.37
21-Dec	36.34	36.20	36.02	36.35	36.37
22-Dec	36.33	36.19	36.00	36.22	36.33
23-Dec	36.33	36.19	36.00	36.38	36.36
24-Dec	36.34	36.20	36.02	36.30	36.35
25-Dec	36.33	36.19	36.08	36.32	36.33
26-Dec	36.33	36.19	36.03	36.33	36.33
27-Dec	36.34	36.19	36.04	36.36	36.34
28-Dec	36.37	36.19	36.12	36.37	36.38
29-Dec	36.36	36.21	36.09	36.34	36.38
30-Dec	36.36	36.21	36.09	36.36	36.37
31-Dec	36.31	36.23	36.10	36.36	36.37

Appendix 21. Turbidity Unit at Sattara Bridge at 24th Sep.2016. Feb 29th was excluded.

1-Jun	0.21	0.21	14.73	0.27	5.67
2-Jun	0.09	0.23	2.72	0.27	3.84
3-Jun	0.21	0.21	0.33	0.33	0.33
4-Jun	0.21	0.17	4.33	0.17	1.57
5-Jun	0.46	0.44	0.39	0.29	0.29
6-Jun	0.27	0.29	0.24	0.27	0.27
7-Jun	0.57	0.32	0.36	0.36	0.26
8-Jun	0.10	0.33	0.49	0.31	0.31
9-Jun	0.15	0.27	0.25	0.22	0.22
10-Jun	0.20	0.35	0.37	0.31	0.31
11-Jun	0.22	0.27	0.36	0.36	0.29
12-Jun	0.18	0.28	0.53	0.33	0.33
13-Jun	0.18	0.23	0.31	0.32	0.24
14-Jun	0.21	0.27	0.25	0.25	0.24
15-Jun	0.15	0.17	0.36	0.33	0.15
16-Jun	0.30	0.11	0.34	0.25	0.25
17-Jun	0.40	0.08	0.24	0.24	0.24
18-Jun	0.35	0.06	0.23	0.21	0.21
19-Jun	0.15	0.23	0.23	0.23	0.23
20-Jun	0.12	0.14	0.16	0.14	0.14
21-Jun	0.49	0.35	0.12	0.30	0.30
22-Jun	0.68	0.26	0.12	0.35	0.35
23-Jun	0.27	0.36	0.36	0.29	0.29
24-Jun	0.27	0.39	0.19	0.28	0.28
25-Jun	0.27	0.88	0.18	0.31	0.31
26-Jun	0.23	0.30	0.19	0.24	0.24
27-Jun	0.45	0.32	0.26	0.26	0.26
28-Jun	0.25	0.31	0.13	0.23	0.23
29-Jun	0.13	0.32	0.08	0.18	0.18
30-Jun	0.19	0.39	0.11	0.23	0.23
31-Jun	0.15	0.23	0.13	0.16	0.16
1-Feb	0.15	0.25	0.08	0.16	
2-Feb	0.11	0.30	0.19	0.26	
3-Feb	0.33	0.32	0.09	0.25	
4-Feb	0.40	0.26	0.13	0.24	
5-Feb	0.26	0.23	0.08	0.19	
6-Feb	0.17	0.25	0.08	0.17	
7-Feb	0.17	0.28	0.10	0.18	
8-Feb	0.15	0.24	0.11	0.18	
9-Feb	0.35	0.14	0.25	0.21	
10-Feb	0.27	0.18	0.21	0.21	
11-Feb	0.27	0.08	0.10	0.18	
12-Feb	0.34	0.14	0.07	0.18	
13-Feb	0.45	0.13	0.08	0.22	
14-Feb	0.42	0.12	0.08	0.14	
15-Feb	0.08	0.07	0.08	0.11	
16-Feb	0.08	0.27	0.25	0.20	
17-Feb	0.08	0.50	0.24	0.30	
18-Feb	0.21	0.31	0.41	0.31	
19-Feb	0.35	0.41	0.22	0.33	
20-Feb	0.27	0.53	0.21	0.34	
21-Feb	0.15	0.27	0.21	0.21	
22-Feb	0.15	0.27	0.24	0.15	
23-Feb	0.16	0.24	0.01	0.14	
24-Feb	0.40	0.29	0.06	0.25	
25-Feb	0.25	0.29	0.14	0.22	
26-Feb	0.25	0.11	0.03	0.13	
27-Feb	0.25	0.10	0.02	0.12	
28-Feb	0.25	0.08	0.05	0.13	
1-Mar	0.22	0.16	0.08	0.14	
2-Mar	0.20	0.41	0.03	0.21	
3-Mar	0.32	0.10	0.03	0.14	
4-Mar	0.19	0.15	0.04	0.12	
5-Mar	0.16	0.08	0.07	0.11	
6-Mar	0.27	0.24	0.13	0.21	
7-Mar	0.26	0.26	0.08	0.18	
8-Mar	0.31	0.10	0.03	0.15	
9-Mar	0.16	0.08	0.06	0.07	
10-Mar	0.41	0.08	0.05	0.25	
11-Mar	0.21	0.08	0.06	0.07	
12-Mar	0.16	0.14	0.04	0.12	
13-Mar	0.14	0.07	0.05	0.08	
14-Mar	0.12	0.07	0.05	0.08	
15-Mar	0.13	0.10	0.04	0.09	
16-Mar	0.13	2.91	0.06	1.03	
17-Mar	0.15	4.07	0.04	1.08	
18-Mar	0.51	0.20	0.54	1.85	
19-Mar	0.15	0.08	0.03	0.08	
20-Mar	0.19	0.08	0.13	0.13	
21-Mar	0.19	0.08	0.13	0.13	
22-Mar	0.13	0.08	0.08	0.08	
23-Mar	0.14	0.10	0.06	0.10	
24-Mar	0.17	0.12	0.09	0.11	
25-Mar	0.12	0.12	0.05	0.10	
26-Mar	0.13	0.08	0.05	0.09	
27-Mar	0.13	0.14	0.16	0.14	
28-Mar	0.13	0.10	0.14	0.12	
29-Mar	0.12	0.26	0.09	0.16	
30-Mar	0.13	0.10	0.08	0.10	
31-Mar	0.17	0.09	0.04	0.10	
1-Apr	0.17	0.08	0.07	0.10	
2-Apr	0.14	0.10	0.03	0.09	
3-Apr	0.17	0.08	0.05	0.11	
4-Apr	0.15	0.11	0.07	0.11	
5-Apr	0.17	0.05	0.02	0.08	
6-Apr	0.14	0.10	0.03	0.09	
7-Apr	0.13	0.07	0.19	0.11	
8-Apr	0.15	0.09	0.02	0.09	
9-Apr	0.05	0.38	0.02	0.15	
10-Apr	0.14	0.06	0.05	0.08	
11-Apr	0.14	0.11	0.03	0.10	
12-Apr	0.16	0.09	0.05	0.10	
13-Apr	0.14	11.98	0.11	3.78	
14-Apr	0.14	0.19	0.11	0.15	
15-Apr	0.15	0.08	0.05	0.12	
16-Apr	0.34	0.11	0.06	0.17	
17-Apr	0.11	0.06	0.07	0.08	
18-Apr	0.15	0.06	0.08	0.09	
19-Apr	0.14	0.05	0.07	0.09	
20-Apr	0.11	0.05	0.56	0.24	
21-Apr	0.10	0.06	0.07	0.08	
22-Apr	0.10	0.06	0.07	0.08	
23-Apr	0.09	0.06	0.06	0.08	
24-Apr	0.11	0.06	0.07	0.08	
25-Apr	0.11	0.05	0.10	0.08	
26-Apr	0.10	0.06	0.07	0.08	
27-Apr	0.18	0.06	0.07	0.10	
28-Apr	0.11	0.05	0.15	0.10	
29-Apr	0.09	0.05	0.07	0.07	
30-Apr	0.08	0.05	0.09	0.07	
31-May	0.41	0.04	0.06	0.24	
1-Jun	3.36	0.05	0.09	1.17	
2-Jun	0.09	0.05	0.06	0.07	
3-Jun	0.08	0.05	0.06	0.07	
4-Jun	0.11	0.03	0.07	0.07	
5-Jun	0.13	0.03	0.06	0.07	
6-Jun	0.09	0.02	0.07	0.06	
7-Jun	0.08	0.02	0.06	0.05	
8-Jun	0.08	0.04	0.05	0.06	
9-Jun	0.06	0.02	0.04	0.04	
10-Jun	0.06	0.04	0.08	0.06	
11-Jun	0.07	0.03	0.08	0.06	
12-Jun	0.08	0.03	0.07	0.06	
13-Jun	0.07	0.02	0.02	0.04	
14-Jun	0.08	0.03	0.73	0.27	
15-Jun	0.08	0.02	0.05	0.05	
16-Jun	0.08	0.02	0.04	0.05	
17-Jun	0.08	0.04	0.13	0.08	
18-Jun	0.08	0.03	0.31	0.13	
19-Jun	2.32	0.01	0.19	0.84	
20-Jun	0.13	0.02	0.06	0.11	
21-Jun	0.12	0.46	0.11	0.23	
22-Jun	0.13	0.04	0.15	0.11	
23-Jun	0.11	0.05	1.41	0.59	
24-Jun	0.14	0.02	0.06	0.07	
25-Jun	0.32	0.10	0.20	0.20	
26-Jun	0.16	0.03	1.12	1.10	
27-Jun	5.30	0.03	0.09	1.81	
28-Jun	0.18	0.04	0.60	0.26	
29-Jun	0.18	0.04	0.12	0.11	
30-Jun	0.17	0.08	0.10	0.10	
1-Jul	0.16	0.04	0.09	0.10	
2-Jul	0.17	0.03	0.11	0.11	
3-Jul	0.15	0.04	0.13	0.11	
4-Jul	0.14	0.02	0.11	0.09	
5-Jul	0.13	0.03	0.11	0.09	
6-Jul	0.17	0.03	0.11	0.11	
7-Jul	0.15	0.13	0.14	0.14	
8-Jul	0.25	0.03	0.16	0.14	
9-Jul	0.10	0.04	0.15	0.10	
10-Jul	0.17	0.03	0.11	0.11	
11-Jul	0.15	0.02	0.13	0.10	
12-Jul	0.09	0.06	0.12	0.09	
13-Jul	0.14	0.02	0.14	0.10	
14-Jul	0.09	0.03	0.11	0.08	
15-Jul	0.07	0.03	0.13	0.08	
16-Jul	0.08	0.02	0.12	0.07	
17-Jul	0.08	0.02	0.12	0.07	
18-Jul	0.07	0.05	0.13	0.08	
19-Jul	0.07	0.03	0.13	0.08	
20-Jul	0.10	0.02	0.10	0.07	
21-Jul	2.37	0.03	0.11	0.82	
22-Jul	0.07	0.04	0.09	0.07	
23-Jul	3.01		0.08	1.54	
24-Jul	2.67		0.09	1.38	
25-Jul	6.35		0.10	2.22	
26-Jul	0.10		0.04	0.10	
27-Jul	0.09		0.09	0.10	
28-Jul	0.18		0.12	0.15	
29-Jul	0.11		0.09	0.10	
30-Jul	1.32		0.10	1.71	
31-Jul	0.09		0.09	0.09	
1-Aug	0.06		0.09	0.08	
2-Aug	1.58		0.09	0.84	
3-Aug	0.10		0.12	0.11	
4-Aug	0.08		1.77	0.92	
5-Aug	0.09		0.21	0.15	
6-Aug	0.11		0.10	0.10	
7-Aug	0.11		0.10	0.10	
8-Aug	0.12		0.17	0.14	
9-Aug	0.16		0.10	0.13	
10-Aug	0.07		1.24	0.66	
11-Aug	0.07		0.09	0.08	
12-Aug	0.11		0.40	0.25	
13-Aug	0.16		0.09	0.12	
14-Aug	0.11		0.07	0.09	
15-Aug	0.09		2.53	1.31	
16-Aug	0.08		2.31	1.20	
17-Aug	1.95		0.35	1.15	
18-Aug	0.06		0.10	0.12	
19-Aug	0.05		0.08	0.06	
20-Aug	0.07		0.15	0.11	
21-Aug	0.08		0.14	0.11	
22-Aug	0.06		0.25	1.20	
23-Aug	0.06		0.08	0.07	
24-Aug	0.07		0.04	0.05	
25-Aug	0.07		0.04	0.05	
26-Aug	0.06		0.02	0.04	
27-Aug	0.06		0.02	0.04	
28-Aug	0.06		0.02	0.04	
29-Aug	0.07		0.03	0.07	
30-Aug	0.11		0.05	0.08	
31-Aug	0.11		0.05	0.08	
1-Sep	0.08		0.05	0.06	
2-Sep	0.08		0.05	0.07	
3-Sep	0.07		0.12	0.10	
4-Sep	0.09		0.07	0.08	
5-Sep	0.09		0.12	0.10	
6-Sep	0.11		0.08	0.09	
7-Sep	0.08		0.07	0.07	
8-Sep	0.14		0.05	0.08	
9-Sep	0.05		0.06	0.05	
10-Sep	0.04		0.08	0.05	
11-Sep	0.04		0.05	0.05	
12-Sep	1.54		0.09	0.81	
13-Sep	0.03		0.13	0.05	
14-Sep	0.07		0.12	0.08	
15-Sep	0.08		0.05	0.07	
16-Sep	0.06		0.04	0.05	
17-Sep	0.03		0.04	0.04	
18-Sep	0.05		0.04	0.04	
19-Sep	0.05		0.03	0.04	
20-Sep	0.24		0.24	0.24	
21-Sep	0.05		0.52	0.28	
22-Sep	0.06		0.06	0.06	
23-Sep	0.05		0.09	0.07	
24-Sep	0.05		0.08	0.06	
25-Sep	1.22		0.05	0.63	
26-Sep	0.08		0.07	0.07	
27-Sep	0.05		0.06	0.06	
28-Sep	0.08		0.06	0.06	
29-Sep	0.08		0.02	1.91	
30-Sep	0.07		0.09	0.08	
1-Oct	0.06		0.07	0.07	
2-Oct	0.08		0.10	0.08	
3-Oct	0.08		0.11	0.10	
4-Oct	0.07		0.09	0.08	
5-Oct	0.11		0.06	0.10	
6-Oct	0.09		0.07	0.08	
7-Oct	0.11		0.07	0.12	
8-Oct	0.11		0.17	0.14	
9-Oct	0.18		0.05	0.27	
10-Oct	1.02		0.77	2.81	
11-Oct	0.13		0.24	0.25	
12-Oct	0.14		0.03	0.09	
13-Oct	0.13		0.66	0.29	
14-Oct	0.13	0.08	0.15	0.11	
15-Oct	0.10	0.03	0.03	0.05	
16-Oct	0.20	3.89	0.05	1.38	
17-Oct	0.16	0.11	0.11	0.13	
18-Oct	0.20	3.54	0.28	1.34	
19-Oct	1.16	0.73	0.20	0.36	
20-Oct	0.17	0.66	1.98	0.94	
21-Oct	0.13	0.11	0.11	0.11	
22-Oct	0.15	0.08	0.23	0.17	
23-Oct	0.11	0.07	0.30	0.17	
24-Oct	1.42	0.08	0.38	0.63	
25-Oct	0.47	0.08	0.47	0.86	
26-Oct	0.54	0.08	1.30	0.84	
27-Oct	0.51	0.13	0.31	0.32	
28-Oct	0.35	0.11	0.27	0.24	
29-Oct	0.21	0.23	0.25	0.26	
30-Oct	0.29	0.36	0.36	0.34	
31-Oct	0.42	0.44	0.32	0.39	
1-Nov	0.19	0.43	0.39	0.33	
2-Nov	0.15	0.37	0.37	0.33	
3-Nov	0.09	2.50	0.32	0.97	
4-Nov	0.09	0.33	0.32	0.25	
5-Nov	0.03	4.92		1.47	
6-Nov	0.03	0.39		0.38	
7-Nov	0.46	0.27		0.14	0.29
8-Nov	1.99	0.20		0.25	0.63
9-Nov	0.46	5.94		0.27	0.58
10-Nov	0.28	0.28		0.41	0.33
11-Nov	0.28	0.28		0.41	0.33
12-Nov	0.28	0.28		0.41	0.33
13-Nov	0.79	0.29		0.76	0.44
14-Nov	0.61	0.34		0.21	0.42
15-Nov	0.85	0.29		0.11	0.42
16-Nov	0.50	0.37		0.08	0.44
17-Nov	0.46	0.27		0.07	0.31
18-Nov	0.57	0.33		0.09	0.29
19-Nov	0.50	0.33		0.09	0.30
20-Nov	0.51	1.23		0.31	0.33
21-Nov	0.68	0.32		0.30	0.39
22-Nov	0.64	0.39		0.33	0.38
23-Nov	0.44	0.32		0.33	0.44
24-Nov	0.41	0.26		0.42	0.32
25-Nov	0.44	0.23		0.36	0.32
26-Nov	0.74	0.28		0.71	0.45
27-Nov	0.87	0.88		0.10	0.62
28-Nov	0.97	1.22		0.27	0.34
29-Nov	0.49	0.28		0.16	0.29
30-Nov	0.41	0.45		0.22	0.37
1-Dec	0.32	0.37		0.37	0.33
2-Dec	0.38	0.67		0.39	0.43
3-Dec	0.50	0.53		0.19	0.40
4-Dec	0.52	0.25		0.21	0.41
5-Dec	0.55	0.26		0.21	0.43
6-Dec	0.42	0.25		0.36	0.41
7-Dec	0.66	0.34		0.68	2.38
8-Dec	0.33	0.86		0.80	2.37
9-Dec	0.28	0.61		0.46	1.57
10-Dec	0.37	0.40		0.39	0.66
11-Dec	0.36	0.32		0.29	0.51
12-Dec	0.42	0.24		0.24	0.34
13-Dec	0.61	0.26		0.78	1.19
14-Dec	0.38	0.38		0.35	1.13
15-Dec	0.61	0.52		0.14	0.82
16-Dec	0.16	0.26		0.20	0.66
17-Dec	0.13	0.23		0.21	0.31
18-Dec	0.17	0.48		0.11	2.16
19-Dec	0.63	0.52		0.10	0.47
20-Dec	0.29	0.30		0.09	0.86
21-Dec	0.29	0.29		0.09	0.29
22-Dec	0.19	0.19		0.30	0.29
23-Dec	0.32	0.26		0.08	0.34
24-Dec	0.40	0.51		0.08	0.37
25-Dec	0.14	0.57		0.16	0.26
26-Dec	0.21	0.36		0.16	0.26
27-Dec	0.31	0.15		0.08	1.51
28-Dec	0.50	0.25		0.15	0.48
29-Dec	0.42	0.28		0.67	0.37
30-Dec	0.24	0.19		0.11	0.26
31-Dec	0.12	3.52		0.20	0.31

Appendix 22. Temperature (oC) profiles at Stetson Bank, 2015–2018.

Depth (m)	Feb-15	May-15	Sep-15	Oct-15	Nov-15	Feb-16	May-16	Aug-16	Nov-16	Feb-17	May-17	Aug-17	Oct-17	Apr-18	Aug-18	Oct-18
1.00	19.58	23.97	29.25	27.42	25.72	20.65	26.36	30.81	26.39	20.06	24.28	30.60	26.19	Niskin	30.45	27.18
1.50	19.58	23.96	29.25	27.42	25.71	20.65	26.35	30.80	26.39	20.06	24.28	30.60	26.22	Niskin	30.43	27.18
2.00	19.58	23.89	29.25	27.42	25.71	20.65	26.32	30.80	26.39	20.08	24.28	30.60	26.20	Niskin	29.93	27.19
2.50	19.57	23.80	29.26	27.42	25.72	20.64	26.30	30.80	26.39	20.17	24.28	30.60	26.20	Niskin	29.61	27.19
3.00	19.57	23.66	29.26	27.42	25.72	20.64	26.27	30.80	26.39	20.15	24.28	30.60	26.21	Niskin	29.56	27.19
3.50	19.58	23.50	29.25	27.42	25.72	20.64	26.24	30.80	26.38	20.13	24.28	30.60	26.22	Niskin	29.54	27.20
4.00	19.57	23.41	29.26	27.42	25.72	20.64	26.22	30.80	26.38	20.12	24.28	30.59	26.24	Niskin	29.53	27.20
4.50	19.57	23.36	29.26	27.42	25.72	20.64	26.19	30.80	26.38	20.14	24.28	30.57	26.24	Niskin	29.51	27.20
5.00	19.57	23.34	29.25	27.43	25.72	20.64	26.13	30.80	26.38	20.18	24.28	30.56	26.24	Niskin	29.49	27.20
5.50	19.57	23.33	29.25	27.45	25.72	20.64	26.08	30.80	26.38	20.22	24.28	30.56	26.24	Niskin	29.49	27.20
6.00	19.57	23.32	29.25	27.45	25.72	20.64	26.05	30.80	26.38	20.27	24.28	30.52	26.24	Niskin	29.49	27.19
6.50	19.57	23.32	29.26	27.46	25.72	20.64	25.97	30.80	26.38	20.32	24.28	30.47	26.24	Niskin	29.48	27.19
7.00	19.57	23.31	29.27	27.47	25.72	20.63	25.91	30.80	26.38	20.43	24.28	30.45	26.24	Niskin	29.47	27.19
7.50	19.57	23.30	29.27	27.48	25.72	20.63	25.89	30.80	26.38	20.55	24.28	30.41	26.24	Niskin	29.47	27.19
8.00	19.57	23.29	29.27	27.49	25.72	20.63	25.88	30.79	26.38	20.57	24.28	30.38	26.24	Niskin	29.46	27.19
8.50	19.57	23.27	29.28	27.49	25.72	20.63	26.03	30.78	26.38	20.55	24.28	30.30	26.24	Niskin	29.46	27.19
9.00	19.57	23.26	29.27	27.49	25.72	20.62	26.07	30.77	26.38	20.52	24.28	30.26	26.24	Niskin	29.45	27.19
9.50	19.56	23.25	29.29	27.49	25.72	20.61	25.83	30.77	26.38	20.51	24.28	30.24	26.23	Niskin	29.44	27.19
10.00	19.55	23.25	29.32	27.49	25.72	20.59	25.87	30.76	26.38	20.50	24.28	30.33	26.23	Niskin	29.41	27.19
10.50	19.55	23.24	29.40	27.49	25.72	20.59	25.80	30.76	26.38	20.51	24.28	30.38	26.23	Niskin	29.41	27.19
11.00	19.55	23.24	29.42	27.48	25.72	20.56	25.70	30.75	26.38	20.52	24.28	30.34	26.23	Niskin	29.41	27.19
11.50	19.56	23.23	29.43	27.48	25.72	20.55	25.59	30.74	26.38	20.51	24.28	30.30	26.22	Niskin	29.30	27.19
12.00	19.56	23.23	29.45	27.48	25.72	20.53	25.53	30.75	26.38	20.50	24.28	30.24	26.22	Niskin	29.27	27.19
12.50	19.56	23.22	29.46	27.48	25.73	20.52	25.49	30.74	26.38	20.49	24.28	30.21	26.21	Niskin	29.27	27.19
13.00	19.55	23.22	29.47	27.48	25.73	20.51	25.46	30.71	26.38	20.49	24.28	30.19	26.20	Niskin	29.25	27.19
13.50	19.54	23.21	29.49	27.48	25.73	20.49	25.44	30.68	26.38	20.49	24.27	30.19	26.20	Niskin	29.24	27.19
14.00	19.54	23.20	29.50	27.48	25.73	20.47	25.37	30.66	26.38	20.47	24.27	30.16	26.20	Niskin	29.22	27.19
14.50	19.53	23.19	29.50	27.49	25.73	20.45	25.28	30.64	26.38	20.45	24.28	30.09	26.19	Niskin	29.20	27.20
15.00	19.52	23.19	29.51	27.49	25.73	20.44	25.17	30.63	26.38	20.40	24.28	30.07	26.18	Niskin	29.20	27.20
15.50	19.50	23.18	29.52	27.49	25.73	20.44	25.04	30.60	26.38	20.36	24.29	30.05	26.18	Niskin	29.20	27.20
16.00	19.48	23.17	29.54	27.49	25.73	20.43	24.93	30.51	26.38	20.38	24.29	30.03	26.19	Niskin	29.19	27.19
16.50	19.45	23.18	29.54	27.49	25.73	20.42	24.80	30.44	26.38	20.39	24.28	30.00	26.21	Niskin	29.18	27.19
17.00	19.43	23.19	29.54	27.49	25.73	20.42	24.72	30.40	26.38	20.39	24.28	29.98	26.20	Niskin	29.18	27.19
17.50	19.43	23.18	29.54	27.50	25.73	20.41	24.67	30.37	26.38	20.39	24.29	29.96	26.19	Niskin	29.12	27.19
18.00	19.42	23.18	29.55	27.53	25.73	20.41	24.65	30.34		20.38	24.29	29.93	26.18	Niskin	29.02	27.19
18.50		23.18	29.54	27.53		20.41	24.60	30.30		20.37	24.28	29.90	26.18	Niskin	28.92	27.19
19.00		23.20	29.53			20.41	24.56	30.26		20.36	24.29	29.88	26.19	Niskin	28.80	27.19
19.50		23.21	29.53			20.41	24.41	30.22		20.34	24.29	29.82	26.18	Niskin	28.80	27.19
20.00						20.40	24.31	30.17		20.34	24.28	29.69	26.19	Niskin	28.80	27.19

Appendix 23. Salinity (psu) profiles at Stetson Bank, 2015–2018.

Depth (m)	Feb-15	May-15	Sep-15	Oct-15	Nov-15	Feb-16	May-16	Aug-16	Nov-16	Feb-17	May-17	Aug-17	Oct-17	Apr-18	Aug-18	Oct-18
1.00	36.47	36.17	34.61	35.66	36.07	36.46	33.89	33.63	36.12	35.82	35.55	36.20	36.29	Niskin	36.49	35.82
1.50	36.47	36.18	34.74	35.66	36.07	36.47	33.91	33.67	36.13	35.82	35.55	36.20	36.25	Niskin	36.49	35.82
2.00	36.47	36.18	34.78	35.66	36.07	36.47	33.97	33.91	36.13	35.84	35.55	36.20	36.25	Niskin	36.55	35.83
2.50	36.47	36.18	34.77	35.66	36.07	36.47	34.00	33.91	36.13	35.92	35.55	36.20	36.21	Niskin	36.50	35.87
3.00	36.47	36.19	34.75	35.66	36.07	36.47	34.05	33.92	36.13	35.91	35.55	36.20	36.15	Niskin	36.49	35.88
3.50	36.47	36.19	34.77	35.66	36.07	36.47	34.10	33.92	36.13	35.89	35.55	36.20	36.21	Niskin	36.48	35.88
4.00	36.47	36.19	34.79	35.66	36.07	36.47	34.14	33.92	36.13	35.88	35.55	36.21	36.32	Niskin	36.48	35.88
4.50	36.47	36.19	34.79	35.66	36.07	36.47	34.19	33.92	36.13	35.89	35.55	36.21	36.33	Niskin	36.48	35.88
5.00	36.47	36.19	34.78	35.67	36.07	36.47	34.24	33.92	36.13	35.94	35.55	36.22	36.33	Niskin	36.48	35.88
5.50	36.47	36.19	34.78	35.69	36.07	36.47	34.35	33.92	36.13	35.97	35.55	36.22	36.33	Niskin	36.48	35.88
6.00	36.47	36.19	34.78	35.70	36.07	36.47	34.47	33.92	36.13	36.04	35.55	36.25	36.33	Niskin	36.48	35.88
6.50	36.47	36.19	34.79	35.72	36.07	36.47	34.52	33.92	36.13	36.09	35.55	36.26	36.33	Niskin	36.48	35.88
7.00	36.47	36.19	34.80	35.73	36.07	36.47	34.70	33.92	36.13	36.15	35.55	36.27	36.33	Niskin	36.48	35.88
7.50	36.47	36.19	34.80	35.76	36.07	36.47	34.83	33.92	36.13	36.24	35.55	36.27	36.33	Niskin	36.48	35.88
8.00	36.47	36.19	34.81	35.79	36.07	36.47	34.88	33.92	36.13	36.25	35.55	36.29	36.33	Niskin	36.48	35.88
8.50	36.47	36.18	34.81	35.79	36.07	36.47	34.90	33.92	36.13	36.26	35.55	36.31	36.33	Niskin	36.48	35.88
9.00	36.47	36.18	34.81	35.79	36.07	36.47	34.57	33.93	36.13	36.26	35.55	36.33	36.33	Niskin	36.48	35.88
9.50	36.47	36.17	34.82	35.79	36.07	36.47	34.49	33.94	36.13	36.25	35.55	36.34	36.33	Niskin	36.49	35.88
10.00	36.47	36.17	34.86	35.79	36.07	36.47	34.97	33.95	36.13	36.25	35.55	36.31	36.33	Niskin	36.49	35.88
10.50	36.47	36.17	34.97	35.79	36.07	36.47	34.88	33.96	36.13	36.25	35.55	36.29	36.32	Niskin	36.48	35.88
11.00	36.47	36.17	34.99	35.79	36.07	36.47	35.01	33.98	36.13	36.25	35.55	36.30	36.33	Niskin	36.49	35.88
11.50	36.47	36.17	35.03	35.79	36.07	36.47	35.16	34.02	36.13	36.25	35.55	36.31	36.33	Niskin	36.50	35.88
12.00	36.47	36.17	35.12	35.79	36.07	36.47	35.31	34.39	36.13	36.25	35.55	36.34	36.31	Niskin	36.48	35.88
12.50	36.47	36.17	35.17	35.79	36.08	36.47	35.40	34.45	36.13	36.25	35.55	36.35	36.32	Niskin	36.48	35.88
13.00	36.47	36.17	35.23	35.79	36.08	36.47	35.45	34.42	36.13	36.24	35.55	36.36	36.32	Niskin	36.48	35.88
13.50	36.47	36.16	35.35	35.80	36.08	36.47	35.47	34.52	36.13	36.24	35.55	36.36	36.33	Niskin	36.48	35.88
14.00	36.47	36.16	35.47	35.80	36.08	36.47	35.49	34.67	36.13	36.24	35.56	36.37	36.32	Niskin	36.48	35.88
14.50	36.47	36.16	35.52	35.80	36.08	36.47	35.56	34.75	36.13	36.24	35.58	36.38	36.32	Niskin	36.48	35.88
15.00	36.47	36.16	35.56	35.80	36.08	36.47	35.65	34.81	36.13	36.22	35.58	36.39	36.33	Niskin	36.47	35.88
15.50	36.47	36.15	35.73	35.81	36.08	36.47	35.72	34.85	36.13	36.21	35.60	36.40	36.33	Niskin	36.47	35.88
16.00	36.47	36.15	35.84	35.81	36.08	36.46	35.75	34.90	36.13	36.23	35.61	36.41	36.33	Niskin	36.47	35.88
16.50	36.47	36.16	35.86	35.81	36.08	36.46	35.80	34.97	36.13	36.24	35.61	36.41	36.33	Niskin	36.47	35.88
17.00	36.47	36.17	35.87	35.82	36.08	36.46	35.80	35.03	36.13	36.24	35.61	36.41	36.33	Niskin	36.47	35.88
17.50	36.47	36.16	35.87	35.84	36.08	36.46	35.79	35.07	36.13	36.24	35.60	36.41	36.33	Niskin	36.49	35.88
18.00	36.47	36.16	35.89	35.93	36.08	36.46	35.79	35.11	36.13	36.24	35.61	36.42	36.33	Niskin	36.47	35.88
18.50		36.15	35.91	35.98		36.46	35.78	35.15		36.24	35.62	36.42	36.33	Niskin	36.50	35.88
19.00		36.15	35.95			36.46	35.79	35.20		36.24	35.62	36.42	36.32	Niskin	36.48	35.88
19.50		36.14	35.99			36.46	35.78	35.24		36.24	35.62	36.42	36.33	Niskin	36.47	35.88
20.00						36.46	35.77	35.28		36.24	35.62	36.44	36.33	Niskin	36.47	35.88

Appendix 24. Disssolved oxygen (ml/L) profiles at Stetson Bank, 2015–2018.

Depth (m)	Feb-15	May-15	Sep-15	Oct-15	Nov-15	Feb-16	May-16	Aug-16	Nov-16	Feb-17	May-17	Aug-17	Oct-17	Apr-18	Aug-18	Oct-18
1.00	No data	No data	4.31	4.53	4.57	4.74	4.46	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.43	4.79	Niskin	4.99	4.51
1.50	No data	No data	4.37	4.54	4.57	4.89	4.51	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.43	4.50	Niskin	4.99	4.51
2.00	No data	No data	4.37	4.53	4.57	4.91	4.48	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.43	3.94	Niskin	5.01	4.54
2.50	No data	No data	4.36	4.54	4.57	4.90	4.47	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.43	4.06	Niskin	5.02	4.50
3.00	No data	No data	4.37	4.54	4.57	4.91	4.48	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.43	4.14	Niskin	5.01	4.49
3.50	No data	No data	4.40	4.55	4.58	4.93	4.48	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.43	4.20	Niskin	5.03	4.47
4.00	No data	No data	4.39	4.54	4.57	4.92	4.47	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.43	4.41	Niskin	5.02	4.47
4.50	No data	No data	4.37	4.54	4.57	4.92	4.46	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.43	4.43	Niskin	5.01	4.48
5.00	No data	No data	4.35	4.54	4.58	4.93	4.49	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.43	4.45	Niskin	5.02	4.47
5.50	No data	No data	4.34	4.54	4.58	4.93	4.50	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.43	4.42	Niskin	5.02	4.48
6.00	No data	No data	4.35	4.54	4.58	4.92	4.48	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.42	4.41	Niskin	5.02	4.47
6.50	No data	No data	4.37	4.55	4.57	4.92	4.48	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.42	4.41	Niskin	5.04	4.48
7.00	No data	No data	4.37	4.55	4.57	4.91	4.51	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.42	4.42	Niskin	5.04	4.47
7.50	No data	No data	4.35	4.54	4.57	4.92	4.50	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.43	4.38	Niskin	5.03	4.48
8.00	No data	No data	4.34	4.54	4.57	4.92	4.50	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.44	4.39	Niskin	5.02	4.48
8.50	No data	No data	4.33	4.55	4.57	4.93	4.50	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.46	4.39	Niskin	5.03	4.47
9.00	No data	No data	4.34	4.54	4.57	4.93	4.49	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.44	4.40	Niskin	5.03	4.47
9.50	No data	No data	4.34	4.54	4.57	4.93	4.48	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.46	4.37	Niskin	5.02	4.48
10.00	No data	No data	4.34	4.54	4.57	4.92	4.50	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.45	4.37	Niskin	5.04	4.49
10.50	No data	No data	4.33	4.55	4.56	4.92	4.49	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.44	4.38	Niskin	5.04	4.48
11.00	No data	No data	4.33	4.54	4.57	4.92	4.51	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.44	4.38	Niskin	5.03	4.47
11.50	No data	No data	4.33	4.55	4.57	4.92	4.52	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.45	4.38	Niskin	5.05	4.49
12.00	No data	No data	4.32	4.54	4.57	4.93	4.53	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.45	4.38	Niskin	5.06	4.48
12.50	No data	No data	4.32	4.53	4.55	4.92	4.52	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.46	4.38	Niskin	5.05	4.49
13.00	No data	No data	4.32	4.53	4.54	4.93	4.53	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.46	4.38	Niskin	5.07	4.48
13.50	No data	No data	4.32	4.53	4.53	4.93	4.53	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.45	4.36	Niskin	5.06	4.48
14.00	No data	No data	4.32	4.54	4.55	4.92	4.53	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.46	4.38	Niskin	5.06	4.49
14.50	No data	No data	4.32	4.55	4.54	4.93	4.54	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.47	4.38	Niskin	5.05	4.48
15.00	No data	No data	4.32	4.54	4.53	4.93	4.52	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.48	4.37	Niskin	5.06	4.48
15.50	No data	No data	4.31	4.55	4.53	4.93	4.53	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.46	4.36	Niskin	5.05	4.48
16.00	No data	No data	4.32	4.55	4.53	4.93	4.57	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.47	4.37	Niskin	5.07	4.48
16.50	No data	No data	4.32	4.54	4.52	4.94	4.58	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.48	4.36	Niskin	5.06	4.48
17.00	No data	No data	4.32	4.55	4.52	4.94	4.57	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.48	4.36	Niskin	5.05	4.49
17.50	No data	No data	4.32	4.55	4.51	4.93	4.57	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.48	4.36	Niskin	5.07	4.49
18.00	No data	No data	4.32	4.56	4.51	4.93	4.60	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.50	4.35	Niskin	5.08	4.48
18.50	No data	No data	4.32	4.57		4.93	4.59	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.49	4.35	Niskin	5.14	4.49
19.00	No data	No data	4.32			4.93	4.60	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.50	4.36	Niskin	5.15	4.49
19.50	No data	No data	4.32			4.93	4.59	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.51	4.35	Niskin	5.14	4.48
20.00	No data	No data	4.32			4.92	4.60	Bad sensor	Bad sensor	Bad sensor	Bad sensor	4.53	4.36	Niskin	5.14	4.48

Appendix 25. pH (eu) profiles at Stetson Bank, 2015–2018.

Depth (m)	Feb-15	May-15	Sep-15	Oct-15	Nov-15	Feb-16	May-16	Aug-16	Nov-16	Feb-17	May-17	Aug-17	Oct-17	Apr-18	Aug-18	Oct-18
1.00	No data	No data	8.17	8.17	8.11	8.13	8.15	8.07	8.17	7.95	8.04	8.03	7.67	Niskin	8.35	Bad sensor
1.50	No data	No data	8.17	8.17	8.11	8.13	8.15	8.06	8.16	7.94	8.04	8.03	7.75	Niskin	8.35	Bad sensor
2.00	No data	No data	8.17	8.17	8.11	8.12	8.15	8.05	8.16	7.94	8.03	8.03	7.79	Niskin	8.35	Bad sensor
2.50	No data	No data	8.17	8.17	8.11	8.12	8.15	8.05	8.16	7.93	8.03	8.03	7.90	Niskin	8.36	Bad sensor
3.00	No data	No data	8.17	8.17	8.11	8.12	8.15	8.05	8.16	7.93	8.02	8.02	7.90	Niskin	8.36	Bad sensor
3.50	No data	No data	8.17	8.17	8.11	8.12	8.15	8.05	8.16	7.93	8.02	8.02	7.91	Niskin	8.36	Bad sensor
4.00	No data	No data	8.17	8.17	8.11	8.12	8.15	8.05	8.16	7.93	8.02	8.02	7.96	Niskin	8.36	Bad sensor
4.50	No data	No data	8.17	8.17	8.11	8.12	8.15	8.05	8.16	7.93	8.02	8.02	7.96	Niskin	8.36	Bad sensor
5.00	No data	No data	8.17	8.17	8.11	8.12	8.15	8.05	8.16	7.92	8.02	8.02	7.96	Niskin	8.36	Bad sensor
5.50	No data	No data	8.17	8.17	8.11	8.12	8.15	8.05	8.16	7.92	8.02	8.02	7.96	Niskin	8.36	Bad sensor
6.00	No data	No data	8.17	8.17	8.11	8.12	8.15	8.04	8.16	7.92	8.02	8.02	7.96	Niskin	8.36	Bad sensor
6.50	No data	No data	8.17	8.17	8.11	8.12	8.15	8.04	8.16	7.92	8.02	8.02	7.96	Niskin	8.36	Bad sensor
7.00	No data	No data	8.17	8.17	8.11	8.12	8.15	8.04	8.16	7.91	8.01	8.02	7.97	Niskin	8.35	Bad sensor
7.50	No data	No data	8.17	8.17	8.11	8.12	8.15	8.04	8.16	7.91	8.01	8.02	7.97	Niskin	8.36	Bad sensor
8.00	No data	No data	8.17	8.17	8.11	8.12	8.15	8.04	8.16	7.90	8.01	8.02	7.96	Niskin	8.35	Bad sensor
8.50	No data	No data	8.17	8.17	8.11	8.12	8.15	8.04	8.16	7.90	8.01	8.02	7.97	Niskin	8.35	Bad sensor
9.00	No data	No data	8.17	8.17	8.11	8.12	8.14	8.04	8.16	7.90	8.01	8.02	7.97	Niskin	8.35	Bad sensor
9.50	No data	No data	8.17	8.16	8.11	8.12	8.14	8.04	8.16	7.90	8.01	8.02	7.97	Niskin	8.35	Bad sensor
10.00	No data	No data	8.16	8.16	8.11	8.12	8.14	8.03	8.16	7.89	8.00	8.01	7.97	Niskin	8.35	Bad sensor
10.50	No data	No data	8.16	8.16	8.11	8.12	8.13	8.03	8.15	7.88	8.00	8.01	7.97	Niskin	8.35	Bad sensor
11.00	No data	No data	8.16	8.16	8.11	8.11	8.13	8.03	8.15	7.88	7.99	8.00	7.97	Niskin	8.35	Bad sensor
11.50	No data	No data	8.16	8.16	8.11	8.11	8.13	8.02	8.15	7.87	7.99	8.00	7.97	Niskin	8.35	Bad sensor
12.00	No data	No data	8.16	8.16	8.11	8.10	8.13	8.00	8.15	7.86	7.99	8.00	7.97	Niskin	8.35	Bad sensor
12.50	No data	No data	8.16	8.16	8.11	8.11	8.13	8.00	8.15	7.86	7.98	8.00	7.97	Niskin	8.35	Bad sensor
13.00	No data	No data	8.16	8.16	8.11	8.11	8.13	8.00	8.15	7.85	7.98	8.00	7.97	Niskin	8.35	Bad sensor
13.50	No data	No data	8.16	8.16	8.11	8.11	8.13	8.00	8.15	7.85	7.98	8.00	7.97	Niskin	8.36	Bad sensor
14.00	No data	No data	8.16	8.16	8.11	8.11	8.13	7.99	8.15	7.85	7.98	8.00	7.97	Niskin	8.35	Bad sensor
14.50	No data	No data	8.15	8.16	8.11	8.11	8.13	7.99	8.15	7.85	7.98	8.00	7.97	Niskin	8.36	Bad sensor
15.00	No data	No data	8.15	8.16	8.11	8.11	8.13	7.99	8.15	7.84	7.98	8.00	7.97	Niskin	8.35	Bad sensor
15.50	No data	No data	8.15	8.16	8.11	8.10	8.13	7.99	8.15	7.84	7.97	8.00	7.97	Niskin	8.36	Bad sensor
16.00	No data	No data	8.15	8.16	8.11	8.11	8.13	7.99	8.15	7.83	7.97	8.00	7.98	Niskin	8.35	Bad sensor
16.50	No data	No data	8.15	8.16	8.11	8.10	8.13	7.99	8.15	7.83	7.97	8.00	8.00	Niskin	8.36	Bad sensor
17.00	No data	No data	8.15	8.16	8.11	8.10	8.13	7.98	8.15	7.82	7.97	8.00	8.00	Niskin	8.36	Bad sensor
17.50	No data	No data	8.15	8.16	8.11	8.10	8.13	7.98	8.15	7.81	7.96	8.00	8.00	Niskin	8.35	Bad sensor
18.00	No data	No data	8.15	8.15	8.11	8.11	8.13	7.98	8.15	7.81	7.96	8.00	7.99	Niskin	8.35	Bad sensor
18.50	No data	No data	8.15	8.15		8.10	8.13	7.98		7.80	7.96	8.00	8.00	Niskin	8.35	Bad sensor
19.00	No data	No data	8.15			8.10	8.13	7.98		7.79	7.95	8.00	8.00	Niskin	8.35	Bad sensor
19.50	No data	No data	8.15			8.11	8.13	7.98		7.79	7.94	8.00	7.98	Niskin	8.35	Bad sensor
20.00	No data	No data	8.15			8.10	8.13	7.98		7.78	7.94	8.00	8.00	Niskin	8.35	Bad sensor

Appendix 26. Turbidity (ntu) profiles at Stetson Bank, 2015–2018.

Depth (m)	Feb-15	May-15	Sep-15	Oct-15	Nov-15	Feb-16	May-16	Aug-16	Nov-16	Feb-17	May-17	Aug-17	Oct-17	Apr-18	Aug-18	Oct-18
1.00	No data	No data	0.21	-0.12	-0.12	-0.12	0.12	0.02	-0.11	0.83	0.63	0.09	0.79	Niskin	0.72	0.64
1.50	No data	No data	-0.02	-0.12	-0.12	-0.12	0.05	-0.02	-0.11	0.85	0.66	0.08	0.79	Niskin	0.71	0.66
2.00	No data	No data	-0.08	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.84	0.66	0.08	0.79	Niskin	0.70	0.81
2.50	No data	No data	-0.08	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.83	0.63	0.08	0.95	Niskin	0.71	0.82
3.00	No data	No data	-0.07	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.83	0.63	0.09	1.03	Niskin	0.70	0.83
3.50	No data	No data	-0.10	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.83	0.63	0.09	1.04	Niskin	0.71	0.79
4.00	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.83	0.63	0.10	0.94	Niskin	0.73	0.79
4.50	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.83	0.63	0.08	1.08	Niskin	0.71	0.80
5.00	No data	No data	-0.11	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.83	0.63	0.09	1.12	Niskin	0.70	0.81
5.50	No data	No data	-0.10	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.83	0.63	0.09	0.95	Niskin	0.70	0.83
6.00	No data	No data	-0.10	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.83	0.63	0.10	0.83	Niskin	0.70	0.79
6.50	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.82	0.63	0.11	0.82	Niskin	0.70	0.80
7.00	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.80	0.63	0.09	0.81	Niskin	0.70	0.80
7.50	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.78	0.63	0.09	0.76	Niskin	0.69	0.82
8.00	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.78	0.63	0.09	0.76	Niskin	0.69	0.81
8.50	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.77	0.63	0.10	0.74	Niskin	0.69	0.80
9.00	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.78	0.62	0.09	0.74	Niskin	0.69	0.79
9.50	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.77	0.63	0.09	0.72	Niskin	0.69	0.80
10.00	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.77	0.63	0.10	0.72	Niskin	0.69	0.82
10.50	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.77	0.63	0.10	0.70	Niskin	0.69	0.84
11.00	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.11	0.77	0.63	0.10	0.70	Niskin	0.70	0.88
11.50	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.78	0.65	0.09	0.71	Niskin	0.70	0.82
12.00	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.77	0.64	0.09	0.70	Niskin	0.69	0.82
12.50	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.11	0.77	0.63	0.09	0.70	Niskin	0.69	0.82
13.00	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.76	0.63	0.09	0.71	Niskin	0.70	0.81
13.50	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.76	0.63	0.09	0.71	Niskin	0.69	0.81
14.00	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.76	0.63	0.09	0.72	Niskin	0.69	0.81
14.50	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.77	0.62	0.09	0.72	Niskin	0.69	0.81
15.00	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.11	0.76	0.63	0.09	0.73	Niskin	0.69	0.80
15.50	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.11	0.77	0.64	0.10	0.73	Niskin	0.69	0.82
16.00	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.11	0.79	0.64	0.10	0.72	Niskin	0.69	0.82
16.50	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.80	0.63	0.11	0.75	Niskin	0.69	0.80
17.00	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.82	0.63	0.11	0.71	Niskin	0.69	0.80
17.50	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	0.80	0.63	0.12	0.73	Niskin	0.70	0.79
18.00	No data	No data	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.11	0.82	0.63	0.12	0.73	Niskin	0.69	0.81
18.50	No data	No data	-0.12	-0.12		-0.12	-0.12	-0.12		0.88	0.63	0.11	0.72	Niskin	0.69	0.81
19.00	No data	No data	-0.12			-0.12	-0.12	-0.12		0.86	0.63	0.12	0.72	Niskin	0.69	0.80
19.50	No data	No data	-0.12			-0.12	-0.12	-0.12		0.90	0.63	0.13	0.73	Niskin	0.69	0.79
20.00	No data	No data	-0.12			-0.12	-0.12	-0.12		0.94	0.63	0.12	0.73	Niskin	0.70	0.79

Appendix 27. Fluorescence (mg/m^3) profiles at Stetson Bank, 2015–2018.

Depth (m)	Feb-15	May-15	Sep-15	Oct-15	Nov-15	Feb-16	May-16	Aug-16	Nov-16	Feb-17	May-17	Aug-17	Oct-17	Apr-18	Aug-18	Oct-18
1.00	No data	No data	0.21	0.14	0.38	0.25	0.17	0.22	0.42	0.66	0.06	0.66	0.79	Niskin	0.12	5.01
1.50	No data	No data	0.20	0.16	0.37	0.22	0.17	0.10	0.43	0.67	0.04	0.66	0.79	Niskin	0.12	5.36
2.00	No data	No data	0.21	0.15	0.39	0.24	0.17	0.10	0.46	0.68	0.04	0.69	0.79	Niskin	0.13	2.52
2.50	No data	No data	0.21	0.16	0.38	0.25	0.16	0.10	0.47	0.61	0.04	0.66	0.79	Niskin	0.14	1.17
3.00	No data	No data	0.24	0.16	0.38	0.26	0.16	0.11	0.46	0.62	0.05	0.66	0.79	Niskin	0.14	0.94
3.50	No data	No data	0.29	0.16	0.37	0.25	0.17	0.11	0.49	0.63	0.05	0.65	0.79	Niskin	0.14	0.83
4.00	No data	No data	0.28	0.16	0.38	0.25	0.16	0.11	0.49	0.65	0.04	0.64	0.79	Niskin	0.13	0.84
4.50	No data	No data	0.28	0.17	0.41	0.28	0.16	0.10	0.49	0.62	0.04	0.64	0.79	Niskin	0.13	0.83
5.00	No data	No data	0.28	0.16	0.38	0.29	0.16	0.10	0.50	0.62	0.05	0.63	0.79	Niskin	0.13	0.83
5.50	No data	No data	0.28	0.17	0.37	0.29	0.16	0.10	0.49	0.59	0.05	0.63	0.79	Niskin	0.13	0.87
6.00	No data	No data	0.28	0.18	0.37	0.29	0.15	0.10	0.49	0.54	0.06	0.64	0.79	Niskin	0.14	0.84
6.50	No data	No data	0.27	0.18	0.37	0.29	0.16	0.11	0.50	0.51	0.05	0.64	0.79	Niskin	0.13	0.85
7.00	No data	No data	0.27	0.18	0.36	0.30	0.15	0.12	0.51	0.46	0.05	0.64	0.79	Niskin	0.13	0.83
7.50	No data	No data	0.27	0.19	0.36	0.32	0.14	0.10	0.51	0.38	0.06	0.63	0.79	Niskin	0.14	0.82
8.00	No data	No data	0.28	0.19	0.37	0.32	0.15	0.10	0.52	0.39	0.06	0.64	0.79	Niskin	0.13	0.83
8.50	No data	No data	0.28	0.20	0.37	0.33	0.14	0.12	0.51	0.42	0.05	0.64	0.79	Niskin	0.14	0.83
9.00	No data	No data	0.28	0.19	0.37	0.33	0.15	0.13	0.51	0.45	0.05	0.64	0.79	Niskin	0.13	0.83
9.50	No data	No data	0.28	0.21	0.37	0.33	0.15	0.13	0.52	0.44	0.05	0.64	0.79	Niskin	0.14	0.84
10.00	No data	No data	0.28	0.21	0.37	0.36	0.15	0.14	0.50	0.43	0.06	0.64	0.79	Niskin	0.14	0.82
10.50	No data	No data	0.28	0.19	0.36	0.37	0.14	0.14	0.51	0.46	0.06	0.64	0.79	Niskin	0.14	0.83
11.00	No data	No data	0.28	0.19	0.37	0.37	0.14	0.14	0.51	0.45	0.05	0.63	0.79	Niskin	0.14	0.85
11.50	No data	No data	0.28	0.21	0.37	0.39	0.13	0.14	0.49	0.43	0.06	0.64	0.79	Niskin	0.14	0.84
12.00	No data	No data	0.28	0.19	0.37	0.39	0.13	0.17	0.49	0.42	0.05	0.63	0.79	Niskin	0.15	0.83
12.50	No data	No data	0.29	0.20	0.37	0.42	0.13	0.18	0.52	0.42	0.06	0.63	0.79	Niskin	0.15	0.82
13.00	No data	No data	0.30	0.21	0.36	0.41	0.13	0.18	0.51	0.40	0.06	0.63	0.79	Niskin	0.13	0.82
13.50	No data	No data	0.29	0.21	0.36	0.41	0.13	0.19	0.49	0.40	0.06	0.64	0.79	Niskin	0.15	0.83
14.00	No data	No data	0.29	0.21	0.39	0.40	0.13	0.20	0.48	0.41	0.06	0.63	0.79	Niskin	0.14	0.82
14.50	No data	No data	0.28	0.22	0.40	0.42	0.13	0.20	0.50	0.40	0.08	0.63	0.79	Niskin	0.15	0.82
15.00	No data	No data	0.28	0.23	0.40	0.42	0.12	0.20	0.48	0.42	0.08	0.63	0.79	Niskin	0.15	0.83
15.50	No data	No data	0.28	0.23	0.40	0.42	0.12	0.20	0.45	0.42	0.09	0.64	0.79	Niskin	0.15	0.83
16.00	No data	No data	0.28	0.23	0.40	0.43	0.12	0.20	0.45	0.41	0.09	0.63	0.79	Niskin	0.15	0.83
16.50	No data	No data	0.28	0.22	0.40	0.45	0.12	0.22	0.46	0.42	0.10	0.63	0.79	Niskin	0.15	0.83
17.00	No data	No data	0.28	0.22	0.39	0.45	0.12	0.22	0.46	0.46	0.10	0.63	0.79	Niskin	0.15	0.82
17.50	No data	No data	0.28	0.23	0.40	0.44	0.12	0.23	0.44	0.43	0.09	0.63	0.79	Niskin	0.15	0.82
18.00	No data	No data	0.27	0.25	0.39	0.45	0.12	0.23	0.45	0.42	0.09	0.64	0.79	Niskin	0.16	0.83
18.50	No data	No data	0.28	0.26		0.47	0.13	0.24		0.43	0.09	0.63	0.79	Niskin	0.16	0.83
19.00	No data	No data	0.27			0.48	0.12	0.26		0.42	0.09	0.64	0.79	Niskin	0.16	0.83
19.50	No data	No data	0.27			0.48	0.13	0.27		0.41	0.09	0.64	0.79	Niskin	0.16	0.84
20.00	No data	No data	0.27			0.48	0.13	0.24		0.41	0.09	0.65	0.79	Niskin	0.16	0.83

Appendix 28. Nutrient results at Stetson Bank, 2015–2018. ND = no detect.

Sample	Date	Depth (m)	Ammonia (mg/L)	Chlorophyll-a (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Phosphorus (mg/L)	Nitrogen (mg/L)
SB Surface A	2/11/2015	1.00	ND	ND	ND	ND	ND	ND
SB Surface B	2/11/2015	1.00	ND	ND	ND	ND	ND	ND
SB Mid-Water A	2/11/2015	10.00	ND	ND	ND	ND	ND	ND
SB Mid-Water B	2/11/2015	10.00	ND	ND	ND	ND	ND	ND
SB Reef Cap A	2/11/2015	19.00	ND	ND	ND	ND	ND	ND
SB Reef Cap B	2/11/2015	19.00	ND	ND	ND	ND	ND	ND
SB Surface A	5/1/2015	1.00	ND	ND	ND	ND	ND	ND
SB Surface B	5/1/2015	1.00	ND	ND	ND	ND	ND	ND
SB Mid-Water A	5/1/2015	10.00	ND	ND	ND	ND	ND	ND
SB Mid-Water B	5/1/2015	10.00	ND	ND	ND	ND	ND	ND
SB Reef Cap A	5/1/2015	19.00	ND	ND	ND	ND	ND	ND
SB Reef Cap B	5/1/2015	19.00	ND	ND	ND	ND	ND	ND
SB Surface A	9/1/2015	1.00	ND	ND	ND	ND	ND	ND
SB Surface B	9/1/2015	1.00	ND	ND	ND	ND	ND	ND
SB Mid-Water A	9/1/2015	10.00	ND	ND	ND	ND	ND	ND
SB Mid-Water B	9/1/2015	10.00	ND	ND	ND	ND	ND	ND
SB Reef Cap A	9/1/2015	19.00	ND	ND	ND	ND	ND	ND
SB Reef Cap B	9/1/2015	19.00	ND	ND	ND	ND	ND	ND
SB Surface A	11/4/2015	1.00	ND	ND	ND	ND	ND	ND
SB Surface B	11/4/2015	1.00	ND	ND	ND	ND	ND	ND
SB Mid-Water A	11/4/2015	10.00	ND	ND	ND	ND	ND	ND
SB Mid-Water B	11/4/2015	10.00	ND	ND	ND	ND	ND	ND
SB Reef Cap A	11/4/2015	19.00	ND	ND	ND	ND	ND	ND
SB Reef Cap B	11/4/2015	19.00	ND	ND	ND	ND	ND	ND
SB Surface A	2/18/2016	1.00	ND	ND	ND	ND	ND	ND
SB Surface B	2/18/2016	1.00	ND	ND	ND	ND	ND	ND
SB Mid-Water A	2/18/2016	10.00	ND	ND	ND	ND	ND	ND
SB Mid-Water B	2/18/2016	10.00	ND	ND	ND	ND	ND	ND
SB Reef Cap A	2/18/2016	19.00	ND	ND	ND	ND	ND	ND
SB Reef Cap B	2/18/2016	19.00	ND	ND	ND	ND	ND	ND
SB Surface A	5/19/2016	1.00	ND	ND	ND	ND	ND	ND
SB Surface B	5/19/2016	1.00	ND	ND	ND	ND	ND	ND
SB Mid-Water A	5/19/2016	10.00	ND	ND	ND	ND	ND	ND
SB Mid-Water B	5/19/2016	10.00	ND	ND	ND	ND	ND	ND
SB Reef Cap A	5/19/2016	19.00	ND	ND	ND	ND	ND	ND
SB Reef Cap B	5/19/2016	19.00	ND	ND	ND	ND	ND	ND
SB Surface A	8/12/2016	1.00	ND	ND	ND	ND	ND	ND
SB Surface B	8/12/2016	1.00	ND	ND	ND	ND	ND	ND
SB Mid-Water A	8/12/2016	10.00	ND	ND	ND	ND	ND	ND
SB Mid-Water B	8/12/2016	10.00	ND	ND	ND	ND	ND	ND
SB Reef Cap A	8/12/2016	19.00	ND	ND	ND	ND	ND	ND
SB Reef Cap B	8/12/2016	19.00	ND	ND	ND	ND	ND	ND
SB Surface A	11/15/2016	1.00	ND	ND	ND	ND	ND	ND
SB Surface B	11/15/2016	1.00	ND	ND	ND	ND	ND	ND
SB Mid-Water A	11/15/2016	10.00	ND	ND	ND	ND	ND	ND
SB Mid-Water B	11/15/2016	10.00	ND	ND	ND	ND	ND	ND
SB Reef Cap A	11/15/2016	19.00	ND	ND	ND	ND	ND	ND
SB Reef Cap B	11/15/2016	19.00	ND	ND	ND	ND	ND	ND
SB Surface A	2/1/2017	1.00	ND	ND	ND	ND	ND	ND
SB Surface B	2/1/2017	1.00	ND	ND	ND	ND	ND	ND
SB Mid-Water A	2/1/2017	10.00	ND	ND	ND	ND	ND	ND
SB Mid-Water B	2/1/2017	10.00	ND	ND	ND	ND	ND	ND
SB Reef Cap A	2/1/2017	19.00	ND	ND	ND	ND	ND	ND
SB Reef Cap B	2/1/2017	19.00	ND	ND	ND	ND	ND	ND
SB Surface A	5/8/2017	1.00	ND	ND	ND	ND	ND	ND
SB Surface B	5/8/2017	1.00	ND	ND	ND	ND	ND	ND
SB Mid-Water A	5/8/2017	10.00	ND	ND	ND	ND	ND	ND
SB Mid-Water B	5/8/2017	10.00	ND	ND	ND	ND	ND	ND
SB Reef Cap A	5/8/2017	19.00	ND	ND	ND	ND	ND	ND
SB Reef Cap B	5/8/2017	19.00	ND	ND	ND	ND	ND	ND
SB Surface A	8/23/2017	1.00	ND	ND	ND	ND	ND	ND
SB Surface B	8/23/2017	1.00	ND	ND	ND	ND	ND	ND
SB Mid-Water A	8/23/2017	10.00	ND	ND	ND	ND	ND	ND
SB Mid-Water B	8/23/2017	10.00	ND	ND	ND	ND	ND	ND
SB Reef Cap A	8/23/2017	19.00	ND	ND	ND	ND	ND	ND
SB Reef Cap B	8/23/2017	19.00	ND	ND	ND	ND	ND	ND
SB Surface A	10/31/2017	1.00	ND	ND	ND	ND	ND	ND
SB Mid-Water A	10/31/2017	10.00	ND	ND	ND	ND	ND	ND
SB Reef Cap A	10/31/2017	19.00	ND	ND	ND	ND	ND	ND
SB Surface A	4/24/2018	1.00	ND	ND	ND	ND	ND	ND
SB Surface B	4/24/2018	1.00	ND	ND	ND	ND	ND	ND
SB Mid-Water A	4/24/2018	10.00	ND	ND	ND	ND	ND	ND
SB Mid-Water B	4/24/2018	10.00	ND	ND	ND	ND	ND	ND
SB Reef Cap A	4/24/2018	19.00	ND	ND	ND	ND	ND	ND
SB Reef Cap B	4/24/2018	19.00	ND	ND	ND	ND	ND	ND
SB Surface A	8/17/2018	1.00	ND	ND	ND	ND	ND	ND
SB Surface B	8/17/2018	1.00	ND	ND	ND	ND	ND	ND
SB Mid-Water A	8/17/2018	10.00	ND	ND	ND	ND	ND	ND
SB Mid-Water B	8/17/2018	10.00	ND	ND	ND	ND	ND	ND
SB Reef Cap A	8/17/2018	19.00	ND	ND	ND	ND	ND	ND
SB Reef Cap B	8/17/2018	19.00	ND	ND	ND	ND	ND	ND
SB Surface A	10/30/2018	1.00	ND	ND	ND	ND	ND	ND
SB Surface B	10/30/2018	1.00	ND	ND	ND	ND	ND	ND
SB Mid-Water A	10/30/2018	10.00	ND	ND	ND	ND	ND	ND
SB Mid-Water B	10/30/2018	10.00	ND	ND	ND	ND	ND	ND
SB Reef Cap A	10/30/2018	19.00	ND	ND	ND	ND	ND	ND
SB Reef Cap B	10/30/2018	19.00	ND	ND	ND	ND	ND	ND

Appendix 29. Carbonate results at Stetson Bank, 2015–2018.

Date	Depth (m)	Salinity (psu)	Temp (oC)	pH_Total	Alkalinity (µmol/kg)	DIC (µmol/kg)	pH in situ	Ωaragonite	pCO2 (µatm)	δ13C (‰)
2/11/2015	9.00	36.64	19.56	8.04	2400.27	2082.08	8.12	3.44	334.23	
2/11/2015	4.50	36.65	19.57	8.06	2402.52	2079.93	8.14	3.58	317.61	
2/11/2015	1.00	36.65	19.59	8.03	2401.35	2083.46	8.11	3.42	338.59	
5/1/2015	19.63	36.16	23.17	8.04	2396.10	2077.68	8.07	3.53	381.28	
5/1/2015	10.00	36.17	23.29	8.04	2396.87	2078.74	8.07	3.53	383.72	
5/1/2015	1.00	35.95	23.85	8.04	2398.70	2077.75	8.06	3.52	393.63	
10/8/2015	18.93	35.93	27.54	8.07	2392.17	2050.90	8.03	3.76	419.64	
10/8/2015	9.05	35.79	27.49	8.07	2393.39	2053.46	8.03	3.74	421.60	
10/8/2015	1.01	35.66	27.42	8.08	2388.77	2051.80	8.05	3.86	403.21	
11/4/2015	17.88	36.08	25.73	8.06	2379.35	2052.12	8.05	3.66	399.92	
11/4/2015	9.01	36.07	25.72	8.06	2381.60	2053.48	8.05	3.69	395.78	
11/4/2015	1.36	36.07	25.73	8.07	2381.36	2050.27	8.06	3.70	393.55	
2/18/2016	20.31	36.46	20.40	8.04	2396.89	2090.62	8.11	3.47	347.10	
2/18/2016	10.25	36.47	20.59	8.04	2398.29	2089.08	8.11	3.47	349.80	
2/18/2016	1.29	36.47	20.65	8.04	2396.94	2087.81	8.10	3.47	351.50	
5/19/2016	18.76	35.78	24.61	8.04	2391.71	2068.76	8.04	3.48	408.60	0.26
5/19/2016	8.99	34.79	25.93	8.06	2363.39	2052.12	8.04	3.56	411.60	0.06
5/19/2016	1.55	33.95	26.37	8.06	2339.67	2035.27	8.04	3.52	414.85	-0.04
8/12/2016	21.05	35.36	30.13	8.07	2380.54	2037.50	8.00	3.77	462.00	
8/12/2016	11.14	33.98	30.76	8.09	2353.62	2024.56	8.00	3.84	453.30	
8/12/2016	1.38	33.43	30.81	8.09	2355.89	2026.56	8.01	3.83	454.60	
11/15/2016	17.65	36.13	26.39	8.07	2411.53	2058.59	8.04	3.70	408.28	
11/15/2016	9.29	36.13	26.38	8.08	2413.23	2057.51	8.06	3.84	389.27	
11/15/2016	1.28	35.84	26.40	8.09	2415.32	2047.37	8.07	3.86	381.19	
2/2/2017	20.95	36.26	20.32	8.05	2401.64	2086.07	8.12	3.53	335.95	0.82
2/2/2017	11.00	36.27	20.53	8.06	2403.91	2082.34	8.12	3.57	334.08	0.82
2/2/2017	2.05	35.86	20.09	8.06	2403.35	2082.06	8.14	3.60	322.93	0.68
5/8/2017	20.10	35.66	24.27	8.05	2409.48	2090.77	8.07	3.62	392.09	
5/8/2017	10.75	35.56	24.28	8.06	2408.64	2090.05	8.07	3.63	390.36	
5/8/2017	2.16	35.56	24.29	8.06	2412.01	2087.64	8.07	3.64	389.20	
8/23/2017	20.97	36.44	29.75	8.08	2403.02	2067.11	8.01	3.96	445.84	1.11
8/23/2017	10.61	36.27	30.42	8.09	2409.67	2068.81	8.01	4.02	452.57	1.11
8/23/2017	3.63	36.20	30.59	8.09	2410.19	2064.16	8.01	4.03	453.43	0.98
10/31/2017	22.08	36.33	26.18	8.08	2408.62	2066.70	8.06	3.87	387.83	
10/31/2017	11.66	36.32	26.18	8.09	2408.00	2062.97	8.07	3.89	384.34	
10/31/2017	3.26	36.32	26.24	8.09	2406.45	2063.27	8.07	3.91	383.03	
4/24/2018	20.00	36.74	21.80	8.03	2414.42	2104.12	8.08	3.44	378.49	
4/24/2018	10.00	36.74	21.80	8.03	2416.03	2101.94	8.08	3.45	376.19	
4/24/2018	2.00	36.73	21.90	8.03	2414.66	2104.59	8.08	3.44	381.27	
8/17/2018	1.44	36.49	30.44	8.07	2412.43	2072.50	7.99	3.90	473.71	1.07
8/17/2018	10.54	36.49	29.43	8.07	2415.52	2076.07	8.00	3.87	457.28	1.03
8/17/2018	20.93	36.47	28.79	8.07	2414.48	2069.19	8.01	3.84	444.21	1.17
10/30/2018	1.53	35.70	27.18	8.07	2396.57	2062.32	8.04	3.82	411.98	0.90
10/30/2018	10.00	35.88	27.19	8.08	2394.14	2062.70	8.04	3.83	410.58	0.92
10/30/2018	22.32	35.88	27.19	8.08	2394.43	2059.66	8.04	3.82	409.80	0.89