

# Coral/Coral Reef Indicator Quantile Report

## SEACAR Analysis

Last compiled on 24 January, 2024

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# Overview

## Purpose

The purpose of the indicator quantiles is to flag records that are “unusual” relative to all of the data in the DDI for a given indicator in order to facilitate QA/QC. They are not used to filter any of the data for SEACAR analyses, and the presence of a LowerQuantile or UpperQuantile flag on a DDI record alone does not necessarily indicate there is any issue with the record (neither does the absence of a LowerQuantile or UpperQuantile flag necessarily mean that a data record is correct).

## Relevant file locations

Current values can be found in the “LowQuantile” and “HighQuantile” columns of the “Ref\_Parameters” worksheet.

The R script described below and the output file can be found in the *FloridaSEACAR IndicatorQuantiles* repository on GitHub:

- <https://github.com/FloridaSEACAR/IndicatorQuantiles>

## Process steps

### IQ\_Report\_Render.R & IQ\_Report.Rmd

1. The *IQ\_Report\_Render.R* script lists all files in a given directory and filters it to a list of DDI exports to evaluate considering a list of parameters to skip (user-defined).
2. User sets the desired upper and lower quantile thresholds, as well as a number of standard deviations away from the mean to use for the calculations.
3. User sets the string value(s) in the DDI exports that should be considered as NA values.
4. The remainder of the script loops through the file list, returning the values listed below and binding them together by row into a single Excel spreadsheet that is saved to the User’s working directory.
5. For each habitat included in the User’s working directory a PDF report will be created in the “output” folder using *IQ\_Report.Rmd*, which provides an overview of questionable / flagged values.
6. In addition to the PDF reports, each habitat will provide a .txt data output file in the “output/data” folder containing questionable values.

## Summary

The following quantile thresholds are used for flagging “questionable” values:

- Lower quantile: **0.001**
- Upper quantile: **0.999**

### Potential Included Indicators and Parameters:

*Indicator:* Percent Cover

- Percent Cover
- Percent Live Tissue
- Colony Height
- Colony Length
- Colony Width
- Colony Diameter

*Indicator:* Community Composition

- Colony Density
- Count
- Presence/Absence

*Indicator:* Grazers and Reef Dependent Species

- Count
- Presence/Absence
- Standard Length

The data file used for the analysis: **All\_CORAL\_Parameters-2024-Jan-10.txt**

## Summary Tables

*Indicator:* **Percent Cover**

Table 1: Indicator Quantile Overview

Parameter	q_low	q_high	mean	n_tot	n_q_low	n_q_high	%_flagged
Colony Diameter	0.5	220.00	14.17	107344	8	100	0.10
Colony Height	0.5	130.00	9.30	257571	106	256	0.14
Colony Length	1.0	350.65	59.11	16355	0	17	0.10
Colony Width	2.0	205.00	17.84	185068	102	174	0.15
Percent Cover	0.1	66.00	5.59	34365	20	33	0.15
Percent Live Tissue	1.0	100.00	69.37	16304	0	0	0.00

*Indicator:* **Community Composition**

Table 2: Indicator Quantile Overview

Parameter	q_low	q_high	mean	n_tot	n_q_low	n_q_high	%_flagged
Colony Density	0.02	71.1	1.10	8901	9	9	0.20
Count	1.00	1000.0	5.77	10188	0	4	0.04
Presence/Absence	0.00	1.0	0.90	1073090	0	0	0.00

*Indicator:* **Grazers and Reef Dependent Species**

Table 3: Indicator Quantile Overview

Parameter	q_low	q_high	mean	n_tot	n_q_low	n_q_high	%_flagged
Count	1	1000	12.78	76439	0	24	0.03
Presence/Absence	0	1	0.96	5203966	0	0	0.00

*q\_low*: Value corresponding to the qval\_low quantile for the parameter in the DDI export.

*q\_high*: Value corresponding to the qval\_high quantile for the parameter in the DDI export.

*mean*: Mean value for the parameter in the DDI export.

*n\_tot*: Total number of records in the DDI export for the parameter.

*n\_q\_low*: Number of records in the DDI export that are below q\_low for the parameter.

*n\_q\_high*: Number of records in the DDI export that are above q\_high for the parameter.

*%\_flagged*: Proportion of total records in the DDI export for the parameter which have been flagged as above q\_high, or below q\_low.

## Low Quantile

### Indicator: Percent Cover

#### Percent Cover

Table 4: Flagged Values - Low Indicator Quantile: **0.1**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
10286955	5027	BB22	2022-06-27	Porifera	0.01
10304152	5027	BB22	2022-06-27	Unknown orange encrusting sponge	0.01
10333688	5027	BH22	2022-06-27	Porifera	0.02
10348176	5027	BH22	2022-06-27	Unknown blue sponge	0.01
10349383	5027	BH22	2022-06-27	Unknown orange encrusting sponge	0.01
10294196	5027	CWA1	2021-09-20	Porifera	0.01
10351466	5027	CWA1	2021-09-20	Unknown orange encrusting sponge	0.01
10328003	5027	DM00	2022-09-09	Unknown blue sponge	0.05
10320363	5027	JT71	2022-04-18	Unknown blue sponge	0.02
10338946	5027	JT71	2022-04-18	Porifera	0.07
10322308	5027	JT74	2021-08-30	Unknown orange encrusting sponge	0.01
10290055	5027	JT74	2022-04-05	Unknown orange encrusting sponge	0.01
10335115	5027	JT74	2022-04-05	Porifera	0.01
10309140	5027	VR01	2022-04-18	Porifera	0.01
10324740	5027	VR01	2022-04-18	Unknown blue sponge	0.01
10355342	5027	VR05	2022-03-29	Unknown blue sponge	0.01
10308153	5027	VR06	2022-03-29	Unknown blue sponge	0.01
10328099	5027	VR06	2022-03-29	Porifera	0.03
10336945	5027	VR06	2022-03-29	Unknown orange encrusting sponge	0.02
10284929	5027	VR09	2022-09-12	Unknown orange encrusting sponge	0.01

#### Programs containing flagged data:

5027 - North Biscayne Bay Seagrass Loss Monitoring Program

There are no *Low* Quantile Flagged Values for Percent Live Tissue

## Colony Height

Table 5: Flagged Values - Low Indicator Quantile: **0.5**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
141088	169	136-2007	2007-12-31	Acropora cervicornis	0.2
146713	169	136-2007	2007-12-31	Acropora cervicornis	0.2
146860	169	136-2007	2007-12-31	Acropora cervicornis	0.2
154618	169	136-2007	2007-12-31	Acropora cervicornis	0.2
167907	169	136-2007	2007-12-31	Acropora cervicornis	0.1
171116	169	136-2007	2007-12-31	Acropora cervicornis	0.2
22763	169	148-2007	2007-12-31	Acropora palmata	0.2
47166	169	148-2007	2007-12-31	Acropora palmata	0.2
51379	169	148-2007	2007-12-31	Acropora palmata	0.2
4122	169	217-2007	2007-12-31	Acropora palmata	0.1
12671	169	217-2007	2007-12-31	Acropora palmata	0.1
51290	169	217-2007	2007-12-31	Acropora palmata	0.2
51547	169	217-2007	2007-12-31	Acropora palmata	0.2
57763	169	217-2007	2007-12-31	Acropora palmata	0.3
62971	169	217-2007	2007-12-31	Acropora palmata	0.3
64713	169	217-2007	2007-12-31	Acropora palmata	0.3
64797	169	217-2007	2007-12-31	Acropora palmata	0.2
64893	169	217-2007	2007-12-31	Acropora palmata	0.1
64985	169	217-2007	2007-12-31	Acropora palmata	0.2
65018	169	217-2007	2007-12-31	Acropora palmata	0.3
71476	169	217-2007	2007-12-31	Acropora palmata	0.3
72467	169	217-2007	2007-12-31	Acropora palmata	0.2
83979	169	217-2007	2007-12-31	Acropora palmata	0.1
84617	169	217-2007	2007-12-31	Acropora palmata	0.2
84810	169	217-2007	2007-12-31	Acropora palmata	0.2
115435	169	217-2007	2007-12-31	Acropora palmata	0.2
115461	169	217-2007	2007-12-31	Acropora palmata	0.3
116388	169	217-2007	2007-12-31	Acropora palmata	0.3
122776	169	217-2007	2007-12-31	Acropora palmata	0.2
147377	169	240-2006	2006-12-31	Acropora palmata	0.2
147493	169	240-2006	2006-12-31	Acropora palmata	0.1
148338	169	240-2006	2006-12-31	Acropora palmata	0.3
141425	169	241-2006	2006-12-31	Acropora palmata	0.2
172250	169	241-2006	2006-12-31	Acropora palmata	0.2
174169	169	241-2006	2006-12-31	Acropora palmata	0.2
174464	169	241-2006	2006-12-31	Acropora palmata	0.2
177013	169	241-2006	2006-12-31	Acropora palmata	0.2
561	169	27-2007	2007-12-31	Acropora palmata	0.2
688	169	27-2007	2007-12-31	Acropora palmata	0.3
3452	169	27-2007	2007-12-31	Acropora palmata	0.3
3501	169	27-2007	2007-12-31	Acropora palmata	0.2
3545	169	27-2007	2007-12-31	Acropora palmata	0.2
4285	169	27-2007	2007-12-31	Acropora palmata	0.2
4457	169	27-2007	2007-12-31	Acropora palmata	0.2
4514	169	27-2007	2007-12-31	Acropora palmata	0.2
8689	169	27-2007	2007-12-31	Acropora palmata	0.2

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
5199	169	28-2007	2007-12-31	Acropora palmata	0.2
176438	169	28-2007	2007-12-31	Acropora palmata	0.1
154369	169	29-2006	2006-12-31	Acropora palmata	0.3
184053	169	298C	2005-12-31	Porites astreoides	0.2
185007	169	298C	2005-12-31	Agaricia agaricites	0.2
141744	169	39-2006	2006-12-31	Acropora palmata	0.2
178291	169	39-2007	2007-12-31	Acropora cervicornis	0.2
187309	169	43-2006	2006-12-31	Acropora palmata	0.3
124222	169	506C	2005-12-31	Stephanocoenia intersepta	0.2
125748	169	506C	2005-12-31	Siderastrea siderea	0.3
153544	169	506C	2005-12-31	Stephanocoenia intersepta	0.4
157982	169	506C	2005-12-31	Stephanocoenia intersepta	0.4
146347	169	525C	2005-12-31	Siderastrea siderea	0.3
154436	169	525C	2005-12-31	Colpophyllia natans	0.3
168383	169	525C	2005-12-31	Siderastrea radians	0.3
318	169	58-2007	2007-12-31	Acropora palmata	0.1
327	169	58-2007	2007-12-31	Acropora palmata	0.1
391	169	58-2007	2007-12-31	Acropora palmata	0.1
418	169	58-2007	2007-12-31	Acropora palmata	0.1
3778	169	58-2007	2007-12-31	Acropora palmata	0.1
8958	169	58-2007	2007-12-31	Acropora palmata	0.1
171052	169	75-2006	2006-12-31	Acropora palmata	0.3
172461	169	75-2006	2006-12-31	Acropora palmata	0.3
4205	169	78-2006	2006-12-31	Acropora palmata	0.3
7283	169	78-2006	2006-12-31	Acropora palmata	0.2
147135	169	78-2006	2006-12-31	Acropora palmata	0.4
147211	169	78-2006	2006-12-31	Acropora palmata	0.3
147487	169	78-2006	2006-12-31	Acropora palmata	0.3
148112	169	78-2006	2006-12-31	Acropora palmata	0.2
148172	169	78-2006	2006-12-31	Acropora palmata	0.3
155623	169	78-2006	2006-12-31	Acropora palmata	0.4
168869	169	78-2006	2006-12-31	Acropora palmata	0.4
178341	169	78-2006	2006-12-31	Acropora palmata	0.3
181004	169	78-2006	2006-12-31	Acropora palmata	0.2
141928	169	79-2006	2006-12-31	Acropora palmata	0.2
142352	169	79-2006	2006-12-31	Acropora palmata	0.4
142370	169	79-2006	2006-12-31	Acropora palmata	0.2
151360	169	79-2006	2006-12-31	Acropora palmata	0.2
151414	169	79-2006	2006-12-31	Acropora palmata	0.3
153907	169	79-2006	2006-12-31	Acropora palmata	0.3
153970	169	79-2006	2006-12-31	Acropora palmata	0.3
161182	169	79-2006	2006-12-31	Acropora palmata	0.3
161306	169	79-2006	2006-12-31	Acropora palmata	0.2
161422	169	79-2006	2006-12-31	Acropora palmata	0.4
161542	169	79-2006	2006-12-31	Acropora palmata	0.3
163076	169	79-2006	2006-12-31	Acropora palmata	0.2
166797	169	79-2006	2006-12-31	Acropora palmata	0.3
167070	169	79-2006	2006-12-31	Acropora palmata	0.3
167071	169	79-2006	2006-12-31	Acropora palmata	0.2
167157	169	79-2006	2006-12-31	Acropora palmata	0.2
171915	169	79-2006	2006-12-31	Acropora palmata	0.2
175616	169	79-2006	2006-12-31	Acropora palmata	0.2

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
176357	169	79-2006	2006-12-31	Acropora palmata	0.2
179596	169	79-2006	2006-12-31	Acropora palmata	0.1
179700	169	79-2006	2006-12-31	Acropora palmata	0.2
198899	169	79-2006	2006-12-31	Acropora palmata	0.2
199042	169	79-2006	2006-12-31	Acropora palmata	0.2
199775	169	79-2006	2006-12-31	Acropora palmata	0.3
199907	169	79-2006	2006-12-31	Acropora palmata	0.3
164615	169	99-2006	2006-12-31	Acropora palmata	0.3

**Programs containing flagged data:**

169 - Abundance, Distribution, and Condition of Acropora Corals, Other Benthic Coral Reef Organisms, and Marine Debris (SCREAM)



There are no *Low* Quantile Flagged Values for Colony Length

## Colony Width

Table 6: Flagged Values - Low Indicator Quantile: **2**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
11539	136	CF2	2011-09-15	Acropora palmata	1.0
37186	136	CF2	2011-09-15	Acropora palmata	1.5
130218	136	CF4	2011-09-15	Acropora palmata	1.0
136125	136	CF4	2015-02-24	Acropora palmata	1.0
23746	136	EL1	2014-10-02	Acropora palmata	1.0
30557	136	EL1	2016-09-15	Acropora palmata	1.0
86533	136	EL1	2018-10-12	Acropora palmata	1.0
74193	136	EL2	2013-10-21	Acropora palmata	1.0
10977	136	EL2	2017-01-20	Acropora palmata	1.0
12894	136	EL2	2017-01-20	Acropora palmata	1.0
22711	136	EL2	2017-06-15	Acropora palmata	1.0
49534	136	EL2	2018-06-04	Acropora palmata	1.0
14129	136	EL2	2018-10-12	Acropora palmata	1.0
70824	136	EL3	2011-05-11	Acropora palmata	1.0
107016	136	EL3	2011-09-28	Acropora palmata	1.0
111435	136	EL3	2011-09-28	Acropora palmata	1.0
118271	136	EL3	2014-10-06	Acropora palmata	1.0
122523	136	FR1	2017-10-18	Acropora palmata	1.0
173756	136	FR2	2014-09-30	Acropora palmata	1.0
188726	136	FR2	2015-02-12	Acropora palmata	1.0
105235	136	FR2	2015-09-25	Acropora palmata	1.0
173320	136	FR2	2015-09-25	Acropora palmata	1.0
87090	136	FR2	2016-09-13	Acropora palmata	1.0
192561	136	FR2	2016-09-13	Acropora palmata	1.0
82859	136	FR2	2018-05-31	Acropora palmata	1.0
108207	136	FR3	2015-02-12	Acropora palmata	1.0
119443	136	GR3	2017-06-28	Acropora palmata	1.0
186221	136	HS3	2017-07-12	Acropora palmata	1.0
173846	136	KL3	2010-05-26	Acropora palmata	1.0
188539	136	KL3	2010-05-26	Acropora palmata	1.0
202533	136	KL3	2011-09-14	Acropora palmata	0.5
135961	136	KL3	2012-09-18	Acropora palmata	1.0
130482	136	KL3	2013-02-07	Acropora palmata	1.0
126059	136	KL3	2015-09-22	Acropora palmata	1.0
189808	136	ML1	2008-05-20	Acropora palmata	1.0
21442	136	ML1	2011-02-09	Acropora palmata	1.0
56042	136	ML2	2006-05-24	Acropora palmata	1.0
138631	136	ML2	2008-05-20	Acropora palmata	1.0
3439	136	ML2	2016-03-02	Acropora palmata	1.0
87620	136	ML2	2016-06-17	Acropora palmata	1.0
49901	136	ML2	2017-01-25	Acropora palmata	1.0
6204	136	ML2	2018-10-12	Acropora palmata	1.0
132911	136	ML3	2018-05-29	Acropora palmata	1.0
167868	136	ML3	2018-05-29	Acropora palmata	1.0
205622	136	NN1	2018-09-11	Acropora palmata	1.0
125261	136	SI1	2013-06-03	Acropora palmata	1.0

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
73288	136	SI1	2013-09-19	Acropora palmata	1.0
178975	136	SI1	2014-01-29	Acropora palmata	1.0
4097	136	SI1	2015-02-23	Acropora palmata	1.0
72260	136	SI1	2017-09-29	Acropora palmata	1.0
178902	136	SI1	2018-06-01	Acropora palmata	1.0
141817	136	SI2	2010-05-24	Acropora palmata	1.0
126835	136	SI2	2010-10-01	Acropora palmata	1.0
213324	136	SI2	2011-05-19	Acropora palmata	1.0
21585	136	SI2	2011-09-16	Acropora palmata	1.0
165925	136	SI2	2011-09-16	Acropora palmata	1.0
20822	136	SI2	2012-01-18	Acropora palmata	1.0
173705	136	SI2	2012-09-20	Acropora palmata	1.0
159580	136	SI2	2013-09-19	Acropora palmata	1.0
212770	136	SI2	2014-10-03	Acropora palmata	1.0
159913	136	SI2	2015-10-09	Acropora palmata	1.0
212725	136	SI2	2016-09-14	Acropora palmata	1.0
8848	136	SI2	2018-06-01	Acropora palmata	1.0
41843	136	SI3	2015-02-23	Acropora palmata	1.0
32899	136	SI3	2015-10-09	Acropora palmata	1.0
40935	136	SI3	2015-10-09	Acropora palmata	1.0
30620	136	TR1	2010-05-18	Acropora palmata	1.0
47107	136	TR1	2011-07-19	Acropora palmata	1.0
40838	136	TR1	2015-07-22	Acropora palmata	1.0
105301	136	TR2	2017-12-08	Acropora palmata	1.0
138974	136	TR2	2018-07-13	Acropora palmata	1.0
126888	136	TR3	2017-08-30	Acropora palmata	1.0
10498533	981	A1120	2005-09-12	Agaricia agaricites	1.0
10498698	981	A1120	2005-09-12	Agaricia agaricites	1.0
10481683	981	MQ20	2019-08-22	Siderastrea siderea	1.0
10627923	981	T1236	2019-08-27	Porites porites	1.0
10598669	981	V1326	2021-09-08	Siderastrea siderea	1.0
10600033	981	V1326	2021-09-08	Stephanocoenia intersepta	1.0
10682635	981	V1335	2021-09-23	Stephanocoenia intersepta	1.0
10545712	981	V3008	2021-09-09	Porites astreoides	1.0
10695104	981	V3024	2021-09-16	Orbicella faveolata	1.0
9726130	3022	1008-1138030-3022B	2018-08-13	Favia fragum	1.0
9832313	3022	1008-1138030-3022B	2018-08-13	Siderastrea radians	1.0
9716218	3022	1089-1960897-3022B	2018-09-25	Porites porites	1.5
9697277	3022	1142-1943617-3022B	2014-09-19	Siderastrea siderea	1.0
9746814	3022	1142-1943617-3022B	2014-09-19	Porites porites	1.0
9414808	3022	1172-1884276-3022B	2014-06-25	Agaricia agaricites	1.0
9700522	3022	1198-1820412-3022B	2018-08-08	Pseudodiploria strigosa	1.0
9803973	3022	1259-1444730-3022B	2016-08-12	Siderastrea siderea	1.0
9702572	3022	1288-1850237-3022B	2018-08-07	Montastraea cavernosa	1.0
9810199	3022	1312-1797085-3022B	2016-12-14	Acropora cervicornis	1.0
9767661	3022	1331-912483-3022B	2014-08-08	Porites astreoides	1.0
9807754	3022	1335-1358764-3022B	2016-08-11	Porites porites	1.0
9828319	3022	1375-965172-3022B	2018-08-13	Siderastrea radians	1.0
9713410	3022	1391-895691-3022B	2014-08-11	Porites furcata	1.0
9720502	3022	1446-871567-3022B	2014-08-09	Porites astreoides	1.0
9805511	3022	2050-821367-3022B	2016-05-20	Agaricia agaricites	1.0
9723786	3022	3582-364828-3022B	2014-10-01	Porites astreoides	1.0

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
10266168	4019	IRMA_056	2017-10-09	Acropora cervicornis	1.0
10267370	4019	IRMA_089	2017-10-17	Acropora cervicornis	1.0
10260471	5040	Grouper Reef-2	2018-01-24	Montastraea cavernosa	1.0
10261380	5040	Grouper Reef-2	2018-01-24	Montastraea cavernosa	1.5

**Programs containing flagged data:**

*136* - Population Status of Elkhorn Coral

*981* - Florida Reef Resilience Program

*3022* - National Coral Reef Monitoring Program (NCRMP)

*4019* - Post-Hurricane Irma Rapid Assessment

*5040* - Coral Disease Monitoring Sentinel Sites

## Colony Diameter

Table 7: Flagged Values - Low Indicator Quantile: **0.5**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
324752	169	376C	1999-12-31	Millepora alcicornis	0.4
438174	169	376C	1999-12-31	Millepora alcicornis	0.3
21641	169	61-2007	2007-12-31	Acropora cervicornis	0.4
220236	169	61-2007	2007-12-31	Acropora cervicornis	0.4
220238	169	61-2007	2007-12-31	Acropora cervicornis	0.4
221112	169	61-2007	2007-12-31	Acropora cervicornis	0.4
221801	169	61-2007	2007-12-31	Acropora cervicornis	0.4
301767	169	889C	2002-12-31	Millepora alcicornis	0.1

### Programs containing flagged data:

169 - Abundance, Distribution, and Condition of Acropora Corals, Other Benthic Coral Reef Organisms, and Marine Debris (SCREAM)

## Indicator: Community Composition

### Colony Density

Table 8: Flagged Values - Low Indicator Quantile: **0.01628**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
413435	169	267E	1999-12-31	Mycetophyllia aliciae	0.01
430935	169	267E	1999-12-31	Solenastrea bournoni	0.01
431763	169	267E	1999-12-31	Manicina areolata	0.01
416129	169	306E	1999-12-31	Siderastrea radians	0.01
417918	169	306E	1999-12-31	Diploria labyrinthiformis	0.01
422366	169	306E	1999-12-31	Agaricia lamarcki	0.01
432824	169	306E	1999-12-31	Pseudodiploria strigosa	0.01
318878	169	397E	1999-12-31	Favia fragum	0.01
410439	169	397E	1999-12-31	Manicina areolata	0.01

### Programs containing flagged data:

169 - Abundance, Distribution, and Condition of Acropora Corals, Other Benthic Coral Reef Organisms, and Marine Debris (SCREAM)

There are no *Low* Quantile Flagged Values for Count

There are no *Low* Quantile Flagged Values for Presence/Absence

**Indicator: Grazers and Reef Dependent Species**

There are no *Low* Quantile Flagged Values for Count

There are no *Low* Quantile Flagged Values for Presence/Absence

There are no *Low* Quantile Flagged Values for Standard Length

## High Quantile

### Indicator: Percent Cover

#### Percent Cover

Table 9: Flagged Values - High Indicator Quantile: **66**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
9404945	3022	1031-924697-3022A	2018-08-22	Bare substrate	77
9303465	3022	1116-1889633-3022A	2014-06-27	Bare substrate	71
9304090	3022	1116-1889633-3022A	2014-06-27	Bare substrate	67
9304628	3022	1118-1865641-3022A	2014-07-13	Bare substrate	67
9306862	3022	1118-1865641-3022A	2014-07-13	Bare substrate	73
9753038	3022	1155-1793406-3022A	2018-08-08	Bare substrate	69
9682892	3022	1214-1844099-3022A	2014-06-10	Bare substrate	77
9680395	3022	1244-1355870-3022A	2015-06-18	Bare substrate	69
9685064	3022	1249-1257380-3022A	2015-06-18	Bare substrate	71
9690257	3022	1267-1696662-3022A	2014-09-26	Bare substrate	96
9694375	3022	1267-1696662-3022A	2014-09-26	Bare substrate	75
9680992	3022	1295-1803720-3022A	2014-06-09	Bare substrate	68
9305336	3022	1571-1893655-3022A	2014-07-22	Bare substrate	67
9308149	3022	1725-990917-3022A	2015-05-07	Bare substrate	81
9312690	3022	1725-990917-3022A	2015-05-07	Bare substrate	78
9796472	3022	2112-1628075-3022A	2016-05-12	Bare substrate	96
9795920	3022	2305-1582772-3022A	2016-05-13	Bare substrate	82
9770739	3022	2355-1433693-3022A	2014-06-04	Bare substrate	75
9808580	3022	2501-939540-3022A	2016-05-21	Bare substrate	74
9404188	3022	3033-96239-3022A	2018-10-30	Bare substrate	74
9406979	3022	3210-431404-3022A	2018-09-06	Bare substrate	79
9783553	3022	3240-119206-3022A	2016-09-12	Bare substrate	81
9940650	3024	19	2001-06-14	Sabellariidae	70
9952836	3024	19	2001-06-14	Sabellariidae	75
9942911	3024	19	2001-07-12	Sabellariidae	69
9407049	3024	40	2000-08-10	Sabellariidae	75
9981818	3024	40	2000-08-10	Sabellariidae	75
9940820	3024	50	2000-06-16	Sabellariidae	80
9944837	3024	59	2000-08-11	Sabellariidae	90
9944863	3024	59	2000-08-11	Sabellariidae	75
9955910	3024	59	2000-08-11	Sabellariidae	75
9981565	3024	59	2000-08-11	Sabellariidae	90
9943553	3024	6	2000-06-15	Sabellariidae	72

#### Programs containing flagged data:

3022 - National Coral Reef Monitoring Program (NCRMP)

3024 - Palm Beach County Artificial and Natural Reef Monitoring Program

There are no *High* Quantile Flagged Values for Percent Live Tissue

## Colony Height

Table 10: Flagged Values - High Indicator Quantile: **130**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
115254	136	CF3	2004-04-05	Acropora palmata	150
61185	136	CF3	2004-07-22	Acropora palmata	150
51155	136	CF3	2004-10-21	Acropora palmata	150
48492	136	CF3	2005-02-03	Acropora palmata	150
76465	136	CF3	2005-05-23	Acropora palmata	150
37344	136	EL2	2016-09-15	Acropora palmata	140
108292	136	EL3	2005-05-03	Acropora palmata	135
85606	136	FR1	2004-09-30	Acropora palmata	150
118883	136	FR1	2005-08-01	Acropora palmata	150
124596	136	ML2	2004-07-21	Acropora palmata	133
124488	136	ML2	2004-10-11	Acropora palmata	133
45869	136	ML2	2005-02-01	Acropora palmata	135
45792	136	ML2	2005-05-04	Acropora palmata	135
8196	136	SI2	2009-06-10	Acropora palmata	140
87310	136	SI2	2009-09-28	Acropora palmata	140
1540	136	SI2	2009-12-16	Acropora palmata	142
97045	136	SI2	2010-05-24	Acropora palmata	142
7795	136	SI2	2010-10-01	Acropora palmata	144
67961	136	SI2	2011-02-07	Acropora palmata	145
1090	136	SI2	2011-05-19	Acropora palmata	147
50846	136	SI2	2011-09-16	Acropora palmata	149
40619	136	SI2	2012-01-18	Acropora palmata	150
49548	136	SI2	2012-05-10	Acropora palmata	152
66470	136	SI2	2012-09-20	Acropora palmata	150
66067	136	SI2	2013-02-07	Acropora palmata	152
66066	136	SI2	2013-06-12	Acropora palmata	153
2089	136	SI2	2013-09-19	Acropora palmata	155
7875	136	SI2	2014-01-29	Acropora palmata	133
59510	136	SI2	2014-01-29	Acropora palmata	155
1175	136	SI2	2014-06-09	Acropora palmata	155
87257	136	SI2	2014-10-03	Acropora palmata	155
1713	136	SI2	2015-02-23	Acropora palmata	155
67046	136	SI2	2015-02-23	Acropora palmata	131
1537	136	SI2	2015-06-08	Acropora palmata	132
89716	136	SI2	2015-06-08	Acropora palmata	155
1906	136	SI2	2015-10-09	Acropora palmata	155
2114	136	SI2	2016-03-02	Acropora palmata	155
53679	136	SI2	2016-06-23	Acropora palmata	155
8772	136	SI2	2016-09-14	Acropora palmata	155
68026	136	SI2	2017-01-25	Acropora palmata	155
68008	136	SI2	2017-06-27	Acropora palmata	155
66199	136	SI2	2017-09-29	Acropora palmata	159
41528	136	SI2	2018-06-01	Acropora palmata	146
47849	136	SI2	2018-09-25	Acropora palmata	150
93332	136	TR1	2010-05-18	Acropora palmata	155
93516	136	TR1	2015-07-22	Acropora palmata	177



RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
101328	136	TR1	2015-07-22	Acropora palmata	201
219839	169	114-2011	2011-12-31	Acropora palmata	140
544573	169	116C	2001-12-31	Orbicella faveolata	187
539446	169	142C	2001-12-31	Orbicella faveolata	150
4095	169	217-2007	2007-12-31	Acropora palmata	140
123606	169	217-2007	2007-12-31	Acropora palmata	135
160515	169	238C	2000-12-31	Orbicella faveolata	200
389355	169	239C	2009-12-31	Orbicella faveolata	190
169139	169	241C	1999-12-31	Orbicella faveolata	205
174638	169	241C	1999-12-31	Orbicella faveolata	245
198079	169	242C	1999-12-31	Orbicella faveolata	150
198116	169	242C	1999-12-31	Orbicella faveolata	177
198854	169	242C	1999-12-31	Orbicella faveolata	175
355640	169	244C	2009-12-31	Orbicella faveolata	160
358271	169	244C	2009-12-31	Orbicella faveolata	240
401095	169	244C	2009-12-31	Orbicella annularis	160
112792	169	245C	1999-12-31	Orbicella faveolata	182
191947	169	245C	1999-12-31	Orbicella faveolata	170
202596	169	248C	1999-12-31	Orbicella faveolata	150
292244	169	273-2011	2011-12-31	Acropora palmata	319
150816	169	276-2011	2011-12-31	Acropora palmata	245
181214	169	278-2011	2011-12-31	Acropora palmata	145
250901	169	278-2011	2011-12-31	Acropora palmata	143
144790	169	28-2007	2007-12-31	Acropora palmata	150
111891	169	292C	2000-12-31	Orbicella faveolata	158
195822	169	29C	1999-12-31	Orbicella faveolata	200
433126	169	338C	2009-12-31	Orbicella annularis	165
540903	169	368C	1999-12-31	Orbicella faveolata	140
547302	169	368C	1999-12-31	Orbicella faveolata	150
145445	169	39-2006	2006-12-31	Acropora palmata	190
205602	169	45C	2002-12-31	Orbicella franksi	160
155442	169	471C	2005-12-31	Orbicella faveolata	160
144238	169	505C	2000-12-31	Orbicella franksi	170
532607	169	576C	2001-12-31	Orbicella faveolata	180
541527	169	576C	2001-12-31	Orbicella faveolata	150
541730	169	576C	2001-12-31	Orbicella faveolata	180
553801	169	576C	2001-12-31	Orbicella faveolata	150
543323	169	577C	2001-12-31	Colpophyllia natans	175
188212	169	580C	2005-12-31	Orbicella faveolata	160
112208	169	59C	2005-12-31	Orbicella faveolata	180
167789	169	622C	2005-12-31	Orbicella faveolata	225
167796	169	622C	2005-12-31	Orbicella faveolata	160
172969	169	622C	2005-12-31	Orbicella faveolata	240
182903	169	622C	2005-12-31	Orbicella faveolata	170
188183	169	622C	2005-12-31	Orbicella faveolata	280
188244	169	622C	2005-12-31	Orbicella faveolata	200
188312	169	622C	2005-12-31	Orbicella faveolata	165
173256	169	639C	2005-12-31	Orbicella faveolata	160
173263	169	639C	2005-12-31	Orbicella faveolata	200
173807	169	639C	2005-12-31	Orbicella faveolata	180
180776	169	639C	2005-12-31	Orbicella faveolata	170
184553	169	639C	2005-12-31	Orbicella faveolata	180

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
184703	169	639C	2005-12-31	Orbicella faveolata	160
192631	169	639C	2005-12-31	Orbicella faveolata	170
194711	169	639C	2005-12-31	Orbicella faveolata	145
194882	169	639C	2005-12-31	Orbicella faveolata	150
194955	169	639C	2005-12-31	Orbicella faveolata	160
483693	169	674C	1999-12-31	Orbicella faveolata	157
502793	169	674C	1999-12-31	Orbicella faveolata	168
520641	169	674C	1999-12-31	Orbicella faveolata	200
561450	169	6C	1999-12-31	Orbicella faveolata	305
562081	169	700C	1999-12-31	Orbicella faveolata	165
599549	169	700C	1999-12-31	Orbicella faveolata	145
511921	169	701C	1999-12-31	Orbicella faveolata	160
352032	169	714C	2005-12-31	Orbicella faveolata	200
543684	169	74C	2001-12-31	Dendrogyra cylindrus	185
494631	169	754C	1999-12-31	Orbicella faveolata	200
178246	169	78-2006	2006-12-31	Acropora palmata	140
409503	169	851C	2009-12-31	Orbicella faveolata	135
117333	169	87C	1999-12-31	Orbicella faveolata	136
10585463	981	A3012	2005-09-16	Orbicella faveolata	150
10707072	981	A3018	2005-09-13	Orbicella faveolata	135
10675831	981	C1030	2006-08-25	Montastraea cavernosa	150
10427289	981	C4109	2006-09-13	Orbicella faveolata	135
10711521	981	C4110	2006-09-13	Orbicella faveolata	200
10711617	981	C4110	2006-09-13	Orbicella faveolata	200
10467584	981	D4030	2007-09-29	Orbicella faveolata	155
10386698	981	D4065	2007-09-19	Siderastrea siderea	150
10656064	981	E4011	2008-08-11	Orbicella faveolata	150
10412287	981	F1007	2009-09-09	Orbicella faveolata	205
10777126	981	F1048	2009-09-15	Orbicella franksi	150
10616128	981	F1077	2009-08-04	Orbicella annularis	160
10439044	981	F1080	2009-08-04	Orbicella faveolata	170
10439082	981	F1080	2009-08-04	Orbicella faveolata	170
10439083	981	F1080	2009-08-04	Orbicella faveolata	170
10633246	981	I1343	2010-08-20	Montastraea cavernosa	160
10586729	981	I1347	2010-08-20	Orbicella faveolata	200
10722309	981	I1355	2010-08-13	Orbicella faveolata	300
10630627	981	I1376	2010-08-12	Pseudodiploria strigosa	150
10481144	981	I1377	2010-08-12	Orbicella annularis	180
10481265	981	I1377	2010-08-12	Orbicella annularis	160
10481343	981	I1377	2010-08-12	Orbicella annularis	190
10481378	981	I1377	2010-08-12	Orbicella annularis	160
10481409	981	I1377	2010-08-12	Orbicella annularis	210
10674508	981	I1410	2010-08-03	Orbicella annularis	220
10466303	981	I1435	2010-08-17	Montastraea cavernosa	178
10662540	981	I1503	2010-08-09	Solenastrea bournoni	143
10614091	981	J2710	2011-08-09	Orbicella faveolata	140
10420313	981	J2824	2011-09-07	Colpophyllia natans	150
10637166	981	J2840	2011-09-16	Orbicella faveolata	150
10734394	981	J2840	2011-09-16	Orbicella faveolata	168
10784182	981	J2873	2011-10-11	Montastraea cavernosa	155
10780801	981	K1044	2012-10-09	Colpophyllia natans	188
10567716	981	K1127	2012-09-19	Orbicella faveolata	150

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
10505464	981	K1133	2012-09-18	Orbicella faveolata	160
10438279	981	K2172	2012-09-10	Orbicella faveolata	138
10655016	981	K2256	2012-09-24	Orbicella faveolata	165
10589276	981	L1036	2013-10-16	Orbicella faveolata	180
10589423	981	L1036	2013-10-16	Orbicella faveolata	160
10737715	981	L2159	2013-10-08	Montastraea cavernosa	170
10738648	981	L2159	2013-10-08	Colpophyllia natans	150
10738754	981	L2159	2013-10-08	Colpophyllia natans	170
10424434	981	M1109	2014-10-06	Orbicella faveolata	160
10424569	981	M1109	2014-10-06	Orbicella faveolata	160
10611531	981	M2483	2014-10-15	Siderastrea siderea	136
10688265	981	MQ2	2019-08-21	Orbicella faveolata	176
10471425	981	MQ21	2019-08-23	Orbicella faveolata	140
10613214	981	O1250	2015-08-18	Montastraea cavernosa	150
10613672	981	O1250	2015-08-18	Montastraea cavernosa	140
10613833	981	O1250	2015-08-18	Montastraea cavernosa	140
10665965	981	O1253	2015-08-18	Orbicella faveolata	140
10664450	981	O1257	2015-09-10	Orbicella faveolata	180
10569444	981	O1270	2015-08-26	Dendrogyra cylindrus	150
10452449	981	O3086	2015-09-23	Orbicella faveolata	200
10452971	981	O3086	2015-09-23	Orbicella faveolata	180
10453028	981	O3086	2015-09-23	Orbicella faveolata	160
10664651	981	O3122	2015-10-07	Acropora palmata	140
10754000	981	Q1193	2016-09-12	Orbicella annularis	400
10754522	981	Q1193	2016-09-12	Orbicella annularis	300
10754741	981	Q1193	2016-09-12	Orbicella annularis	300
10754742	981	Q1193	2016-09-12	Orbicella annularis	200
10606926	981	Q1217	2016-09-06	Orbicella annularis	225
10735936	981	Q3027	2016-09-06	Montastraea cavernosa	150
10578752	981	R3004	2017-08-17	Orbicella faveolata	170
10653281	981	R3005	2017-08-17	Montastraea cavernosa	170
10679622	981	R3006	2017-08-22	Orbicella faveolata	150
10681246	981	R3006	2017-08-22	Orbicella annularis	150
10681762	981	R3006	2017-08-22	Orbicella annularis	150
10696197	981	S1158	2018-10-11	Siderastrea siderea	500
10484028	981	S1193	2018-09-20	Montastraea cavernosa	150
10468575	981	S3008	2018-09-17	Orbicella annularis	145
10562333	981	S3010	2018-09-20	Orbicella faveolata	185
10562334	981	S3010	2018-09-20	Orbicella faveolata	170
10562838	981	S3010	2018-09-20	Orbicella faveolata	135
10562895	981	S3010	2018-09-20	Orbicella faveolata	230
10609256	981	S3010	2018-09-20	Colpophyllia natans	155
10460698	981	T1201	2019-10-22	Orbicella faveolata	150
10456651	981	T2236	2019-10-04	Orbicella faveolata	145
10655280	981	T3003	2019-08-28	Orbicella faveolata	200
10657861	981	T3003	2019-08-28	Orbicella annularis	150
10498166	981	T3037	2019-10-22	Orbicella faveolata	165
10780009	981	U1279	2020-10-12	Colpophyllia natans	300
10710062	981	U1399	2020-10-30	Montastraea cavernosa	210
10743897	981	U1399	2020-10-30	Orbicella faveolata	143
10783169	981	U1568	2020-10-12	Orbicella faveolata	190
10783691	981	U1568	2020-10-12	Orbicella faveolata	252

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
10663882	981	U1653	2020-10-11	Orbicella faveolata	193
10444767	981	U1661	2020-10-11	Orbicella faveolata	140
10510311	981	U3070	2020-11-13	Orbicella faveolata	155
10400977	981	UMQ20-16	2020-08-30	Montastraea cavernosa	200
10759199	981	UMQ20-32	2020-08-31	Orbicella faveolata	140
10692664	981	V1244	2021-09-23	Orbicella annularis	160
10405481	981	V1293	2021-09-02	Orbicella faveolata	147
10564502	981	V1330	2021-09-08	Siderastrea siderea	165
10574517	981	V1330	2021-09-08	Montastraea cavernosa	150
10650198	981	V1555	2021-09-17	Orbicella faveolata	193
10749483	981	V3061	2021-10-27	Orbicella annularis	135
10701931	981	VMQ21-6	2021-10-14	Orbicella faveolata	137
9681900	3022	1129-1938807-3022B	2014-09-15	Orbicella faveolata	190
9685521	3022	1148-1901802-3022B	2014-06-30	Orbicella faveolata	150
9683136	3022	1150-1836013-3022B	2014-09-07	Orbicella faveolata	185
9852094	3022	1201-1917232-3022B	2016-12-07	Orbicella faveolata	200
9855457	3022	1201-1917232-3022B	2016-12-07	Orbicella faveolata	150
9860609	3022	1201-1917232-3022B	2016-12-07	Orbicella faveolata	140
9678105	3022	1231-1792899-3022B	2014-10-18	Orbicella faveolata	200
9679464	3022	1231-1792899-3022B	2014-10-18	Orbicella faveolata	180
9856682	3022	1247-1815459-3022B	2016-12-14	Orbicella faveolata	150
9856903	3022	1247-1815459-3022B	2016-12-14	Orbicella faveolata	150
9859541	3022	1257-1792899-3022B	2016-09-29	Orbicella faveolata	150
9726260	3022	1297-1809650-3022B	2014-10-17	Orbicella faveolata	195
9729418	3022	1297-1809650-3022B	2014-10-17	Orbicella faveolata	190
9684151	3022	1299-1795185-3022B	2014-10-18	Colpophyllia natans	140
9732112	3022	1325-1030082-3022B	2014-08-06	Orbicella faveolata	190
9724745	3022	1327-1248516-3022B	2015-05-08	Orbicella faveolata	138
9725968	3022	1327-1248516-3022B	2015-05-08	Orbicella faveolata	210
9726490	3022	1327-1248516-3022B	2015-05-08	Orbicella faveolata	165
9729167	3022	1327-1248516-3022B	2015-05-08	Orbicella faveolata	180
9841336	3022	1333-1687187-3022B	2018-08-15	Orbicella faveolata	170
9813861	3022	1334-1006382-3022B	2014-08-12	Orbicella faveolata	190
9665009	3022	1355-1003830-3022B	2014-08-22	Montastraea cavernosa	145
9673540	3022	1355-1003830-3022B	2014-08-22	Montastraea cavernosa	145
9906792	3022	1412-1112984-3022B	2016-07-14	Orbicella faveolata	175
9720560	3022	1420-1332050-3022B	2015-05-10	Orbicella annularis	148
9721611	3022	1421-1337948-3022B	2015-06-23	Orbicella annularis	140
9678743	3022	1429-1138019-3022B	2014-08-14	Orbicella faveolata	175
9680984	3022	1429-1138019-3022B	2014-08-14	Orbicella faveolata	175
9683358	3022	1429-1138019-3022B	2014-08-14	Orbicella faveolata	190
9712388	3022	1433-1009004-3022B	2014-08-14	Acropora cervicornis	325
9680746	3022	1443-920017-3022B	2014-08-12	Orbicella faveolata	250
9853217	3022	1639-1509874-3022B	2014-11-09	Orbicella faveolata	180
9848511	3022	2043-902620-3022B	2014-06-11	Orbicella faveolata	140
9918142	3022	2334-1483795-3022B	2016-06-04	Orbicella faveolata	180
10286120	4019	IRMA_050	2017-10-16	Orbicella faveolata	131
10286191	4019	IRMA_050	2017-10-16	Orbicella faveolata	136
10282358	4019	IRMA_069	2017-10-16	Orbicella faveolata	200
10282473	4019	IRMA_069	2017-10-16	Orbicella faveolata	220
10286093	4019	IRMA_075	2017-10-16	Orbicella faveolata	170
10281980	4019	IRMA_099	2017-10-17	Orbicella faveolata	180

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
10291087	4019	IRMA_104	2017-10-16	Orbicella faveolata	135
10279373	4019	IRMA_108	2017-10-09	Orbicella faveolata	180

**Programs containing flagged data:**

*136* - Population Status of Elkhorn Coral

*169* - Abundance, Distribution, and Condition of Acropora Corals, Other Benthic Coral Reef Organisms, and Marine Debris (SCREAM)

*981* - Florida Reef Resilience Program

*3022* - National Coral Reef Monitoring Program (NCRMP)

*4019* - Post-Hurricane Irma Rapid Assessment

## Colony Length

Table 11: Flagged Values - High Indicator Quantile: **350.646**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
1607	136	CF3	2004-04-05	Acropora palmata	380
15618	136	CF3	2004-07-22	Acropora palmata	385
9031	136	CF3	2004-10-21	Acropora palmata	390
12132	136	CF3	2005-02-03	Acropora palmata	390
26479	136	CF3	2005-05-23	Acropora palmata	395
12448	136	CF3	2009-09-16	Acropora palmata	357
1608	136	CF3	2009-12-10	Acropora palmata	362
16599	136	CF3	2010-05-26	Acropora palmata	368
24248	136	CF3	2010-10-29	Acropora palmata	367
16535	136	CF3	2011-02-08	Acropora palmata	370
28104	136	CF3	2011-05-12	Acropora palmata	365
25794	136	CF3	2011-09-15	Acropora palmata	368
25795	136	CF3	2012-01-12	Acropora palmata	364
15930	136	CF3	2013-05-23	Acropora palmata	351
82599	136	FR1	2004-09-30	Acropora palmata	600
96985	136	FR1	2005-08-01	Acropora palmata	600
91723	136	TR2	2017-12-08	Acropora palmata	422

## Programs containing flagged data:

136 - Population Status of Elkhorn Coral

## Colony Width

Table 12: Flagged Values - High Indicator Quantile: **205**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
13231	136	CF2	2012-05-11	Acropora palmata	207
16106	136	CF3	2004-04-05	Acropora palmata	280
56311	136	CF3	2004-07-22	Acropora palmata	285
23740	136	CF3	2004-10-21	Acropora palmata	285
9724	136	CF3	2005-02-03	Acropora palmata	285
25815	136	CF3	2005-05-23	Acropora palmata	300
55506	136	CF3	2012-01-12	Acropora palmata	209
133689	136	EL1	2010-10-28	Acropora palmata	210
128275	136	EL1	2011-02-02	Acropora palmata	210
128428	136	EL1	2011-05-27	Acropora palmata	215
103672	136	EL1	2011-09-27	Acropora palmata	217
128413	136	EL1	2012-02-08	Acropora palmata	221
151183	136	EL1	2012-05-15	Acropora palmata	225
128241	136	EL1	2012-09-24	Acropora palmata	225
133398	136	EL1	2013-02-05	Acropora palmata	230
136502	136	EL1	2013-06-03	Acropora palmata	230
142505	136	EL1	2013-10-21	Acropora palmata	230
133154	136	EL1	2014-02-06	Acropora palmata	233
128068	136	EL1	2014-05-29	Acropora palmata	235
143420	136	EL1	2014-10-02	Acropora palmata	235
125448	136	EL1	2015-02-09	Acropora palmata	230
100032	136	EL1	2015-06-05	Acropora palmata	235
133711	136	EL1	2015-09-29	Acropora palmata	235
133420	136	EL1	2016-03-01	Acropora palmata	237
133412	136	EL1	2016-06-27	Acropora palmata	240
122306	136	FR1	2004-09-30	Acropora palmata	250
148045	136	FR1	2005-08-01	Acropora palmata	250
159622	136	FR1	2012-01-19	Acropora palmata	220
168617	136	FR1	2012-05-09	Acropora palmata	228
53013	136	ML3	2004-04-07	Acropora palmata	210
25591	136	ML3	2004-07-21	Acropora palmata	210
76709	136	ML3	2004-10-11	Acropora palmata	210
23044	136	ML3	2005-02-01	Acropora palmata	210
29664	136	ML3	2005-05-27	Acropora palmata	210
34183	136	ML3	2005-08-01	Acropora palmata	210
53085	136	ML3	2009-09-18	Acropora palmata	210
23154	136	ML3	2009-12-15	Acropora palmata	210
76735	136	ML3	2010-05-20	Acropora palmata	210
29520	136	ML3	2010-10-15	Acropora palmata	222
31497	136	ML3	2011-02-09	Acropora palmata	222
34342	136	ML3	2011-05-09	Acropora palmata	220
52174	136	ML3	2011-09-13	Acropora palmata	223
52770	136	ML3	2012-01-19	Acropora palmata	225
24909	136	ML3	2012-05-10	Acropora palmata	220
76891	136	ML3	2014-10-01	Acropora palmata	206
78826	136	ML3	2015-02-12	Acropora palmata	207
31582	136	ML3	2015-06-02	Acropora palmata	210
34660	136	ML3	2015-09-23	Acropora palmata	210

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
59329	136	ML3	2016-03-02	Acropora palmata	215
71120	136	ML3	2016-06-17	Acropora palmata	218
52727	136	ML3	2016-09-14	Acropora palmata	218
66903	136	ML3	2017-01-26	Acropora palmata	221
90495	136	ML3	2017-06-27	Acropora palmata	220
41525	136	SI2	2015-10-09	Acropora palmata	210
40503	136	SI2	2016-03-02	Acropora palmata	215
53767	136	SI2	2016-06-23	Acropora palmata	220
20324	136	SI2	2016-09-14	Acropora palmata	210
21705	136	SI2	2017-06-27	Acropora palmata	210
10323	136	SI2	2017-09-29	Acropora palmata	215
40325	136	SI2	2018-06-01	Acropora palmata	228
41419	136	SI2	2018-09-25	Acropora palmata	238
10564610	981	C1069.1	2006-09-20	Orbicella faveolata	220
10461811	981	D4030	2007-09-29	Orbicella faveolata	287
10408828	981	D4065	2007-09-19	Orbicella annularis	250
10481692	981	E1059	2008-09-23	Siderastrea siderea	285
10418742	981	E1098	2008-09-15	Siderastrea siderea	250
10556023	981	F1001	2009-08-21	Orbicella annularis	270
10562425	981	F1001	2009-08-21	Orbicella annularis	250
10460726	981	F1007	2009-09-09	Orbicella faveolata	210
10770428	981	F1048	2009-09-15	Orbicella franksi	250
10431086	981	F1080	2009-08-04	Orbicella faveolata	300
10431747	981	F1080	2009-08-04	Orbicella faveolata	250
10566146	981	F4007	2009-08-05	Orbicella annularis	210
10394395	981	F4012	2009-09-16	Colpophyllia natans	235
10607552	981	I1304	2010-08-18	Orbicella faveolata	220
10605411	981	I1347	2010-08-20	Orbicella faveolata	290
10736418	981	I1355	2010-08-13	Orbicella faveolata	300
10736425	981	I1355	2010-08-13	Orbicella faveolata	300
10736436	981	I1355	2010-08-13	Orbicella faveolata	280
10742506	981	I1355	2010-08-13	Colpophyllia natans	280
10501110	981	I1356	2010-08-16	Colpophyllia natans	220
10707819	981	I1376	2010-08-12	Pseudodiploria strigosa	240
10524096	981	I1377	2010-08-12	Orbicella annularis	300
10524353	981	I1377	2010-08-12	Orbicella annularis	300
10525295	981	I1377	2010-08-12	Orbicella annularis	300
10525374	981	I1377	2010-08-12	Orbicella annularis	270
10563496	981	I1379	2010-08-03	Siderastrea siderea	220
10677889	981	I1410	2010-08-03	Orbicella annularis	270
10652894	981	J1706	2011-08-09	Siderastrea siderea	210
10457101	981	J2640	2011-08-24	Colpophyllia natans	300
10418225	981	J2824	2011-09-07	Orbicella annularis	230
10446761	981	J2824	2011-09-07	Colpophyllia natans	220
10447489	981	J2824	2011-09-07	Colpophyllia natans	250
10636147	981	J2840	2011-09-16	Orbicella faveolata	280
10561394	981	K1127	2012-09-19	Orbicella faveolata	215
10493810	981	K1133	2012-09-18	Orbicella faveolata	210
10708821	981	K1162	2012-09-07	Orbicella annularis	250
10492099	981	L2148	2013-09-12	Pseudodiploria clivosa	250
10724438	981	L2159	2013-10-08	Colpophyllia natans	240
10532394	981	MQ18	2019-08-22	Montastraea cavernosa	213



RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
10630214	981	MQ18	2019-08-22	Orbicella faveolata	210
10465532	981	MQ21	2019-08-23	Orbicella faveolata	285
10549297	981	MQ26	2019-08-23	Montastraea cavernosa	210
10557936	981	O1250	2015-08-18	Montastraea cavernosa	300
10557937	981	O1250	2015-08-18	Montastraea cavernosa	210
10558024	981	O1250	2015-08-18	Montastraea cavernosa	225
10558051	981	O1250	2015-08-18	Montastraea cavernosa	225
10575331	981	O1250	2015-08-18	Montastraea cavernosa	225
10556145	981	O2176	2015-09-03	Siderastrea siderea	222
10410873	981	O2211	2015-09-22	Montastraea cavernosa	270
10671423	981	O3085	2015-09-22	Orbicella annularis	250
10672542	981	O3085	2015-09-22	Orbicella annularis	300
10384392	981	O3086	2015-09-23	Orbicella annularis	240
10470688	981	O3086	2015-09-23	Orbicella faveolata	270
10470783	981	O3086	2015-09-23	Orbicella faveolata	320
10470954	981	O3086	2015-09-23	Orbicella faveolata	320
10712648	981	Q1193	2016-09-12	Orbicella annularis	400
10712649	981	Q1193	2016-09-12	Orbicella annularis	400
10712713	981	Q1193	2016-09-12	Orbicella annularis	400
10739140	981	Q1193	2016-09-12	Orbicella annularis	325
10626277	981	Q1203	2016-09-13	Orbicella faveolata	210
10597707	981	Q1217	2016-09-06	Orbicella annularis	450
10453207	981	Q3022	2016-10-03	Diploria labyrinthiformis	230
10736398	981	Q3027	2016-09-06	Montastraea cavernosa	250
10545471	981	R3004	2017-08-17	Orbicella faveolata	400
10545694	981	R3004	2017-08-17	Orbicella faveolata	220
10403304	981	S1141	2018-09-26	Orbicella faveolata	220
10693665	981	S1158	2018-10-11	Siderastrea siderea	300
10693685	981	S1158	2018-10-11	Siderastrea siderea	400
10769089	981	S1182	2018-10-25	Orbicella faveolata	230
10386357	981	S3008	2018-09-17	Orbicella annularis	215
10438255	981	S3008	2018-09-17	Orbicella faveolata	310
10614065	981	S3010	2018-09-20	Colpophyllia natans	230
10621919	981	S3010	2018-09-20	Orbicella faveolata	270
10626586	981	S3010	2018-09-20	Orbicella faveolata	300
10476069	981	T1127	2019-08-26	Orbicella faveolata	250
10736773	981	T1244	2019-09-25	Colpophyllia natans	230
10648964	981	T3003	2019-08-28	Orbicella annularis	300
10649532	981	T3003	2019-08-28	Orbicella annularis	220
10655391	981	T3003	2019-08-28	Orbicella faveolata	350
10549426	981	T3007	2019-09-09	Porites porites	225
10737104	981	U1399	2020-10-30	Orbicella annularis	210
10779211	981	U1568	2020-10-12	Orbicella faveolata	262
10779215	981	U1568	2020-10-12	Porites porites	211
10779340	981	U1568	2020-10-12	Orbicella faveolata	313
10651286	981	U1653	2020-10-11	Orbicella faveolata	224
10538524	981	U2266	2020-09-10	Siderastrea siderea	230
10650409	981	U3006	2020-08-19	Montastraea cavernosa	350
10472952	981	V1230	2021-09-03	Orbicella faveolata	275
10405989	981	V1293	2021-09-02	Orbicella faveolata	236
10649662	981	V1555	2021-09-17	Orbicella faveolata	307
10663242	981	V3031	2021-09-21	Orbicella annularis	270

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
9746689	3022	1133-1856327-3022B	2014-07-24	Colpophyllia natans	210
9806385	3022	1148-1901802-3022B	2014-06-30	Orbicella faveolata	260
9800570	3022	1201-1917232-3022B	2016-12-07	Orbicella faveolata	450
9831613	3022	1325-1030082-3022B	2014-08-06	Orbicella faveolata	277
9830375	3022	1326-1171995-3022B	2014-08-24	Orbicella faveolata	220
9836216	3022	1327-1248516-3022B	2015-05-08	Orbicella faveolata	240
9802370	3022	1412-1112984-3022B	2016-07-14	Orbicella faveolata	240
9728882	3022	1421-1337948-3022B	2015-06-23	Orbicella annularis	300
9413477	3022	1429-1138019-3022B	2014-08-14	Orbicella faveolata	235
9414088	3022	1429-1138019-3022B	2014-08-14	Orbicella faveolata	215
9804840	3022	1639-1509874-3022B	2014-11-09	Orbicella faveolata	270
10263660	4019	IRMA_025	2017-10-18	Orbicella annularis	600
10272284	4019	IRMA_025	2017-10-18	Orbicella faveolata	220
10265496	4019	IRMA_032	2017-10-15	Orbicella faveolata	240
10265386	4019	IRMA_050	2017-10-16	Orbicella faveolata	212
10263957	4019	IRMA_069	2017-10-16	Orbicella faveolata	375
10264042	4019	IRMA_069	2017-10-16	Orbicella faveolata	350
10264054	4019	IRMA_069	2017-10-16	Orbicella annularis	225
10266691	4019	IRMA_099	2017-10-17	Orbicella faveolata	300
10265814	4019	IRMA_104	2017-10-16	Orbicella faveolata	220
10265884	4019	IRMA_104	2017-10-16	Orbicella faveolata	210
10261494	4019	IRMA_108	2017-10-09	Orbicella faveolata	400

**Programs containing flagged data:**

*136* - Population Status of Elkhorn Coral

*981* - Florida Reef Resilience Program

*3022* - National Coral Reef Monitoring Program (NCRMP)

*4019* - Post-Hurricane Irma Rapid Assessment

## Colony Diameter

Table 13: Flagged Values - High Indicator Quantile: **220**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
271714	169	100-2006	2006-12-31	Acropora palmata	250
66559	169	114-2011	2011-12-31	Acropora palmata	230
411018	169	116C	2001-12-31	Orbicella faveolata	240
248952	169	125C	2009-12-31	Orbicella faveolata	245
179857	169	190C	2005-12-31	Orbicella faveolata	225
48715	169	217-2007	2007-12-31	Acropora palmata	270
130945	169	241C	1999-12-31	Orbicella faveolata	385
231127	169	241C	1999-12-31	Orbicella faveolata	294
234495	169	241C	1999-12-31	Orbicella faveolata	250
128474	169	242C	1999-12-31	Orbicella faveolata	255
237756	169	242C	1999-12-31	Orbicella faveolata	300
213721	169	244C	2009-12-31	Orbicella annularis	240
218141	169	244C	2009-12-31	Orbicella faveolata	510
244451	169	244C	2009-12-31	Orbicella faveolata	305
210332	169	245C	1999-12-31	Orbicella faveolata	265
241375	169	245C	1999-12-31	Orbicella faveolata	334
227093	169	246C	2005-12-31	Acropora palmata	390
236610	169	248C	1999-12-31	Orbicella faveolata	235
116881	169	272-2011	2011-12-31	Acropora palmata	268
49577	169	273-2011	2011-12-31	Acropora palmata	230
55762	169	278-2011	2011-12-31	Acropora palmata	223
160158	169	28-2007	2007-12-31	Acropora palmata	283
186636	169	280C	2005-12-31	Orbicella faveolata	225
231981	169	29C	1999-12-31	Orbicella faveolata	250
150381	169	300C	2005-12-31	Orbicella faveolata	225
238289	169	305C	2009-12-31	Orbicella faveolata	230
247840	169	305C	2009-12-31	Orbicella faveolata	240
158679	169	338C	2009-12-31	Orbicella annularis	230
223760	169	338C	2009-12-31	Orbicella annularis	350
256335	169	338C	2009-12-31	Orbicella annularis	360
259441	169	338C	2009-12-31	Orbicella annularis	280
341055	169	364C	1999-12-31	Orbicella faveolata	265
345462	169	364C	1999-12-31	Siderastrea siderea	315
271772	169	39-2006	2006-12-31	Acropora palmata	280
21348	169	411-2007	2007-12-31	Acropora palmata	230
233434	169	41C	2000-12-31	Orbicella faveolata	260
307512	169	45C	2002-12-31	Orbicella franksi	250
278733	169	471C	2005-12-31	Orbicella faveolata	295
278855	169	471C	2005-12-31	Orbicella faveolata	240
302607	169	471C	2005-12-31	Orbicella annularis	270
262241	169	473C	2009-12-31	Orbicella faveolata	285
201802	169	496C	2000-12-31	Orbicella franksi	255
163754	169	500C	1999-12-31	Orbicella faveolata	240
175997	169	500C	1999-12-31	Orbicella faveolata	280
271777	169	579C	2009-12-31	Montastraea cavernosa	240
247530	169	583C	2009-12-31	Colpophyllia natans	230
236448	169	607C	2009-12-31	Orbicella annularis	400
252518	169	607C	2009-12-31	Orbicella annularis	400

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
274245	169	607C	2009-12-31	Orbicella annularis	360
277217	169	607C	2009-12-31	Orbicella annularis	250
261713	169	609C	2005-12-31	Orbicella franksi	240
264203	169	622C	2005-12-31	Montastraea cavernosa	245
264214	169	622C	2005-12-31	Orbicella faveolata	280
266755	169	622C	2005-12-31	Orbicella faveolata	285
266874	169	622C	2005-12-31	Orbicella faveolata	233
236711	169	639C	2005-12-31	Orbicella faveolata	340
261994	169	639C	2005-12-31	Orbicella faveolata	380
262520	169	639C	2005-12-31	Orbicella faveolata	370
262589	169	639C	2005-12-31	Orbicella faveolata	250
271645	169	639C	2005-12-31	Orbicella faveolata	325
245775	169	648C	2009-12-31	Dendrogyra cylindrus	260
319947	169	674C	1999-12-31	Orbicella faveolata	355
325515	169	674C	1999-12-31	Orbicella faveolata	270
327791	169	674C	1999-12-31	Orbicella faveolata	410
421683	169	674C	1999-12-31	Orbicella faveolata	228
208704	169	687C	2005-12-31	Acropora palmata	230
310978	169	700C	1999-12-31	Orbicella faveolata	235
341640	169	700C	1999-12-31	Orbicella faveolata	300
392046	169	701C	1999-12-31	Orbicella faveolata	240
415731	169	701C	1999-12-31	Orbicella faveolata	270
298592	169	754C	1999-12-31	Orbicella faveolata	310
262104	169	758C	2005-12-31	Acropora palmata	235
257698	169	799C	2009-12-31	Millepora complanata	230
164435	169	815C	2005-12-31	Acropora palmata	320
207822	169	815C	2005-12-31	Acropora palmata	315
110879	169	A425-2012	2012-12-31	Acropora palmata	278
9816215	3022	1130-1940938-3022B	2014-09-19	Orbicella faveolata	245
9792166	3022	1133-1856327-3022B	2014-07-24	Colpophyllia natans	230
9797673	3022	1133-1856327-3022B	2014-07-24	Colpophyllia natans	245
9813919	3022	1148-1901802-3022B	2014-06-30	Orbicella faveolata	285
9817411	3022	1148-1901802-3022B	2014-06-30	Orbicella faveolata	280
9780097	3022	1201-1917232-3022B	2016-12-07	Orbicella faveolata	270
9781190	3022	1201-1917232-3022B	2016-12-07	Orbicella faveolata	500
9773057	3022	1226-1485086-3022B	2014-11-10	Porites astreoides	227
9809640	3022	1231-1792899-3022B	2014-10-18	Orbicella faveolata	240
9730113	3022	1297-1809650-3022B	2014-10-17	Orbicella faveolata	290
9749106	3022	1299-1795185-3022B	2014-10-18	Colpophyllia natans	250
9751636	3022	1299-1795185-3022B	2014-10-18	Colpophyllia natans	240
9732592	3022	1325-1030082-3022B	2014-08-06	Orbicella faveolata	385
9736761	3022	1326-1171995-3022B	2014-08-24	Orbicella faveolata	245
9731725	3022	1327-1248516-3022B	2015-05-08	Orbicella faveolata	340
9733491	3022	1327-1248516-3022B	2015-05-08	Orbicella faveolata	300
9813760	3022	1350-1214471-3022B	2016-07-13	Orbicella annularis	380
9773280	3022	1412-1112984-3022B	2016-07-14	Orbicella faveolata	260
9814865	3022	1421-1337948-3022B	2015-06-23	Orbicella annularis	350
9756108	3022	1429-1138019-3022B	2014-08-14	Orbicella faveolata	240
9767382	3022	1429-1138019-3022B	2014-08-14	Orbicella faveolata	260
9814666	3022	1639-1509874-3022B	2014-11-09	Orbicella faveolata	290
9799456	3022	2043-902620-3022B	2014-06-11	Orbicella faveolata	240
9797360	3022	2311-1592053-3022B	2016-06-02	Orbicella franksi	230

**Programs containing flagged data:**

*169* - Abundance, Distribution, and Condition of Acropora Corals, Other Benthic Coral Reef Organisms, and Marine Debris (SCREAM)

*3022* - National Coral Reef Monitoring Program (NCRMP)

## Indicator: Community Composition

### Colony Density

Table 14: Flagged Values - High Indicator Quantile: **71.1**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
10280694	4019	IRMA_031	2017-10-16	Siderastrea siderea	97
10279274	4019	IRMA_032	2017-10-15	Siderastrea siderea	86
10279211	4019	IRMA_035	2017-10-17	Siderastrea siderea	109
10279393	4019	IRMA_038	2017-10-14	Siderastrea siderea	72
10282154	4019	IRMA_043	2017-10-12	Siderastrea siderea	76
10282877	4019	IRMA_052	2017-10-17	Siderastrea siderea	100
10284727	4019	IRMA_087	2017-10-17	Porites astreoides	150
10282404	4019	IRMA_099	2017-10-17	Siderastrea siderea	96
10280025	4019	IRMA_109	2017-10-16	Siderastrea siderea	145

### Programs containing flagged data:

4019 - Post-Hurricane Irma Rapid Assessment

## Count

Table 15: Flagged Values - High Indicator Quantile: **1000**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
10180445	3024	40	2004-07-28	Unidentified fish	2000
10194304	3024	40	2004-08-18	Unidentified fish	2000
9664736	3024	91	2004-08-05	Unidentified fish	3000
9675680	3024	91	2004-08-05	Unidentified fish	2000

## Programs containing flagged data:

*3024* - Palm Beach County Artificial and Natural Reef Monitoring Program

There are no *High* Quantile Flagged Values for Presence/Absence

## Indicator: Grazers and Reef Dependent Species

Count

Table 16: Flagged Values - High Indicator Quantile: **1000**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
10087524	3024	10	2011-04-23	Haemulon aurolineatum	2000
10053702	3024	100	2001-07-21	Haemulidae	2000
10048768	3024	105	1997-11-15	Haemulon melanurum	2000
10067701	3024	115	2006-06-20	Haemulon aurolineatum	6000
10196945	3024	115	2006-06-20	Haemulon aurolineatum	6000
10223892	3024	115	2006-06-20	Haemulon aurolineatum	6000
10030819	3024	136	2008-07-26	Haemulon aurolineatum	5000
10239937	3024	184	2009-06-18	Haemulidae	2000
10095498	3024	194	2012-08-04	Decapterus macarellus	4000
10039719	3024	200	2011-09-17	Haemulon aurolineatum	2000
10068951	3024	229	2014-06-07	Selar crumenophthalmus	2000
10154416	3024	229	2014-06-07	Selar crumenophthalmus	2000
10047623	3024	23	1997-09-20	Haemulon aurolineatum	2000
10047877	3024	23	1997-09-20	Haemulon aurolineatum	1500
10048262	3024	23	1997-09-20	Haemulon chrysargyreum	1500
10157811	3024	23	2000-06-03	Haemulon aurolineatum	1200
10188806	3024	27	2007-01-20	Haemulon aurolineatum	5000
10027218	3024	46	2006-11-18	Haemulon aurolineatum	4000
10201571	3024	46	2006-11-18	Haemulon aurolineatum	1015
10167042	3024	55	2002-07-17	Haemulon aurolineatum	1015
9317295	3024	56	2008-05-31	Haemulon aurolineatum	1500
10021448	3024	56	2008-05-31	Haemulon aurolineatum	2000
10031501	3024	6	2001-07-17	Decapterus punctatus	2000
10199837	3024	6	2001-07-17	Haemulon aurolineatum	2000

### Programs containing flagged data:

3024 - Palm Beach County Artificial and Natural Reef Monitoring Program



There are no *High* Quantile Flagged Values for Presence/Absence

There are no *High* Quantile Flagged Values for Standard Length