

# Coral/Coral Reef Indicator Quantile Report

## SEACAR Analysis

Last compiled on 20 June, 2024

## Contents

<b>Overview</b>	<b>2</b>
Purpose . . . . .	2
Relevant file locations . . . . .	2
Process steps . . . . .	2
<b>Summary</b>	<b>3</b>
<b>Summary Tables</b>	<b>4</b>
<b>Low Quantile</b>	<b>5</b>
Indicator: Community Composition . . . . .	5
Indicator: Grazers and Reef Dependent Species . . . . .	5
Indicator: Percent Cover . . . . .	5
Colony Height . . . . .	5
Colony Width . . . . .	10
<b>High Quantile</b>	<b>14</b>
Indicator: Community Composition . . . . .	14
Colony Density . . . . .	14
Count . . . . .	16
Indicator: Grazers and Reef Dependent Species . . . . .	17
Count . . . . .	17
Indicator: Percent Cover . . . . .	18
Colony Diameter . . . . .	18
Colony Height . . . . .	20
Colony Length . . . . .	24
Colony Width . . . . .	25
Percent Cover . . . . .	29
<b>QAQC Quantile Flag Check</b>	<b>36</b>

# 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**

The following parameters are being excluded from this analysis:

---

### Included Indicators and Parameters and the files used in this analysis:

*All\_CORAL\_Parameters-2024-Jun-06.txt*

*Indicator:* Community Composition

- Colony Density
- Count
- Presence/Absence

*Indicator:* Grazers and Reef Dependent Species

- Count
- Presence/Absence
- Standard Length

*Indicator:* Percent Cover

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

## Summary Tables

*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.

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

*Indicator: Community Composition*

Table 1: Indicator Quantile Overview

ParameterName	q low	q high	mean	n tot	n q low	n q high	pct flagged
Colony Density	0	37.53	0.25	42470	0	43	0.10
Count	0	1000.00	5.08	10571	0	5	0.05
Presence/Absence	0	1.00	0.98	1006730	0	0	0.00

*Indicator: Grazers and Reef Dependent Species*

Table 2: Indicator Quantile Overview

ParameterName	q low	q high	mean	n tot	n q low	n q high	pct flagged
Count	0	1000	10.55	87241	0	29	0.03
Presence/Absence	0	1	0.99	4686355	0	0	0.00

*Indicator: Percent Cover*

Table 3: Indicator Quantile Overview

ParameterName	q low	q high	mean	n tot	n q low	n q high	pct flagged
Colony Diameter	0	240.00	18.16	82238	0	76	0.09
Colony Height	1	155.00	12.12	207104	190	193	0.18
Colony Length	1	361.87	66.04	14027	0	15	0.11
Colony Width	2	220.00	19.86	195782	133	177	0.16
Percent Cover	0	42.00	0.75	343888	0	321	0.09
Percent Live Tissue	0	100.00	57.89	9004	0	0	0.00

## Low Quantile

### Indicator: Community Composition

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

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

### Indicator: Percent Cover

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

### Colony Height

Table 4: Flagged Values - Low Indicator Quantile: 1

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
1064160	136	SI1	2011-05-19	Acropora palmata	0.5
16942	169	102C	2005-12-31	Porites astreoides	0.5
21017	169	102C	2005-12-31	Agaricia agaricites	0.5
13886	169	117C	2005-12-31	Agaricia agaricites	0.5
23388	169	117C	2005-12-31	Porites astreoides	0.5
13888	169	136-2007	2007-12-31	Acropora cervicornis	0.1
18031	169	136-2007	2007-12-31	Acropora cervicornis	0.2
49254	169	147-2007	2007-12-31	Acropora palmata	0.5
35127	169	148-2007	2007-12-31	Acropora palmata	0.5
60557	169	148-2007	2007-12-31	Acropora palmata	0.2
17656	169	159C	2005-12-31	Stephanocoenia intersepta	0.5
7963	169	162C	2005-12-31	Stephanocoenia intersepta	0.5
9179	169	172C	2005-12-31	Stephanocoenia intersepta	0.5
9233	169	172C	2005-12-31	Siderastrea siderea	0.5
15895	169	172C	2005-12-31	Agaricia agaricites	0.5
6801	169	180C	2005-12-31	Agaricia agaricites	0.5
14811	169	180C	2005-12-31	Orbicella faveolata	0.5
24021	169	185C	2005-12-31	Stephanocoenia intersepta	0.5
24023	169	185C	2005-12-31	Siderastrea radians	0.5
24104	169	185C	2005-12-31	Siderastrea siderea	0.5
18496	169	190C	2005-12-31	Acropora cervicornis	0.5
11171	169	213C	2005-12-31	Montastraea cavernosa	0.5
12745	169	213C	2005-12-31	Stephanocoenia intersepta	0.5
13060	169	213C	2005-12-31	Siderastrea siderea	0.5
253684	169	215-2006	2006-12-31	Acropora cervicornis	0.5
6734	169	217-2007	2007-12-31	Acropora palmata	0.6
8307	169	217-2007	2007-12-31	Acropora palmata	0.3
9753	169	217-2007	2007-12-31	Acropora palmata	0.2
11646	169	217-2007	2007-12-31	Acropora palmata	0.5

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
12207	169	217-2007	2007-12-31	Acropora palmata	0.1
29422	169	217-2007	2007-12-31	Acropora palmata	0.8
776	169	224C	2005-12-31	Montastraea cavernosa	0.5
3667	169	224C	2005-12-31	Stephanocoenia intersepta	0.5
4277	169	227C	2005-12-31	Siderastrea siderea	0.5
7915	169	227C	2005-12-31	Montastraea cavernosa	0.5
8186	169	227C	2005-12-31	Stephanocoenia intersepta	0.5
86639	169	231C	2002-12-31	Colpophyllia natans	0.0
8971	169	240-2006	2006-12-31	Acropora palmata	0.5
228318	169	240-2006	2006-12-31	Acropora palmata	0.1
247223	169	240-2006	2006-12-31	Acropora palmata	0.8
280082	169	240-2006	2006-12-31	Acropora palmata	0.2
430085	169	240-2006	2006-12-31	Acropora palmata	0.3
6462	169	241-2006	2006-12-31	Acropora palmata	0.7
11864	169	241-2006	2006-12-31	Acropora palmata	0.2
8158	169	260C	2005-12-31	Siderastrea siderea	0.5
30846	169	260C	2005-12-31	Mycetophyllia danaana	0.5
33045	169	260C	2005-12-31	Porites astreoides	0.5
37034	169	260C	2005-12-31	Stephanocoenia intersepta	0.5
6348	169	27-2007	2007-12-31	Acropora palmata	0.3
16933	169	27-2007	2007-12-31	Acropora palmata	0.2
105197	169	272-2011	2011-12-31	Acropora palmata	0.5
120382	169	273-2011	2011-12-31	Acropora palmata	0.5
9003	169	28-2007	2007-12-31	Acropora palmata	0.2
21705	169	28-2007	2007-12-31	Acropora palmata	0.1
22314	169	28-2007	2007-12-31	Acropora palmata	0.5
36813	169	280C	2005-12-31	Mycetophyllia ferox	0.5
39359	169	280C	2005-12-31	Mycetophyllia danaana	0.5
42768	169	280C	2005-12-31	Siderastrea siderea	0.5
46641	169	280C	2005-12-31	Stephanocoenia intersepta	0.5
64268	169	280C	2005-12-31	Colpophyllia natans	0.5
6195	169	29-2006	2006-12-31	Acropora palmata	0.3
6508	169	29-2007	2007-12-31	Acropora palmata	0.5
12073	169	298C	2005-12-31	Colpophyllia natans	0.5
12290	169	298C	2005-12-31	Porites astreoides	0.5
12842	169	298C	2005-12-31	Orbicella faveolata	0.5
14848	169	298C	2005-12-31	Porites astreoides	0.2
17449	169	298C	2005-12-31	Agaricia agaricites	0.2
21053	169	298C	2005-12-31	Siderastrea siderea	0.5
58332	169	30-2007	2007-12-31	Acropora palmata	0.5
18396	169	31-2007	2007-12-31	Acropora palmata	0.5
4455	169	34C	2009-12-31	Agaricia agaricites	0.0
15187	169	35C	2005-12-31	Porites astreoides	0.5
22810	169	35C	2005-12-31	Siderastrea siderea	0.5
246382	169	39-2006	2006-12-31	Acropora palmata	0.2
273968	169	39-2006	2006-12-31	Acropora palmata	0.6
276771	169	39-2006	2006-12-31	Acropora palmata	0.5
10403	169	39-2007	2007-12-31	Acropora cervicornis	0.2
29432	169	42C	2009-12-31	Agaricia agaricites	0.0
278124	169	43-2006	2006-12-31	Acropora palmata	0.3
7626	169	506C	2005-12-31	Stephanocoenia intersepta	0.5
13150	169	506C	2005-12-31	Stephanocoenia intersepta	0.2

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
13151	169	506C	2005-12-31	Siderastrea siderea	0.3
17185	169	506C	2005-12-31	Stephanocoenia intersepta	0.4
8510	169	525C	2005-12-31	Stephanocoenia intersepta	0.5
9741	169	525C	2005-12-31	Siderastrea siderea	0.3
9988	169	525C	2005-12-31	Siderastrea siderea	0.5
11907	169	525C	2005-12-31	Siderastrea radians	0.3
12826	169	525C	2005-12-31	Colpophyllia natans	0.3
20021	169	555C	2005-12-31	Agaricia agaricites	0.5
4778	169	56C	2005-12-31	Stephanocoenia intersepta	0.5
25129	169	56C	2005-12-31	Siderastrea siderea	0.5
23258	169	58-2007	2007-12-31	Acropora palmata	0.1
749	169	60C	2005-12-31	Stephanocoenia intersepta	0.5
969	169	60C	2005-12-31	Madracis senaria	0.5
28724	169	60C	2005-12-31	Siderastrea siderea	0.5
30551	169	60C	2005-12-31	Agaricia lamarcki	0.5
27430	169	61-2007	2007-12-31	Acropora cervicornis	0.5
4689	169	61C	2005-12-31	Siderastrea siderea	0.5
16031	169	61C	2005-12-31	Colpophyllia natans	0.5
24470	169	61C	2005-12-31	Stephanocoenia intersepta	0.5
25119	169	61C	2005-12-31	Agaricia agaricites	0.5
31575	169	61C	2005-12-31	Montastraea cavernosa	0.5
6220	169	692C	2005-12-31	Agaricia agaricites	0.8
18336	169	697C	2005-12-31	Agaricia agaricites	0.5
25668	169	704C	2002-12-31	Millepora alcicornis	0.5
4646	169	728C	2002-12-31	Millepora alcicornis	0.5
9038	169	728C	2002-12-31	Agaricia humilis	0.5
34448	169	743C	2005-12-31	Porites astreoides	0.5
8078	169	75-2006	2006-12-31	Acropora palmata	0.3
2184	169	77C	2005-12-31	Porites astreoides	0.5
4619	169	78-2006	2006-12-31	Acropora palmata	0.3
8080	169	78-2006	2006-12-31	Acropora palmata	0.2
12346	169	78-2006	2006-12-31	Acropora palmata	0.4
18438	169	78-2006	2006-12-31	Acropora palmata	0.7
5335	169	79-2006	2006-12-31	Acropora palmata	0.2
9071	169	79-2006	2006-12-31	Acropora palmata	0.6
228317	169	79-2006	2006-12-31	Acropora palmata	0.5
246616	169	79-2006	2006-12-31	Acropora palmata	0.9
248428	169	79-2006	2006-12-31	Acropora palmata	0.3
274244	169	79-2006	2006-12-31	Acropora palmata	0.4
274866	169	79-2006	2006-12-31	Acropora palmata	0.1
286672	169	79-2006	2006-12-31	Acropora palmata	0.8
430088	169	79-2006	2006-12-31	Acropora palmata	0.7
26110	169	796C	2002-12-31	Madracis senaria	0.0
29662	169	796C	2002-12-31	Agaricia agaricites	0.0
31944	169	796C	2002-12-31	Siderastrea siderea	0.0
60952	169	796C	2002-12-31	Stephanocoenia intersepta	0.0
59125	169	815C	2005-12-31	Agaricia agaricites	0.0
27661	169	824C	2002-12-31	Porites astreoides	0.0
30397	169	824C	2002-12-31	Stephanocoenia intersepta	0.0
32397	169	824C	2002-12-31	Siderastrea siderea	0.0
32662	169	824C	2002-12-31	Agaricia agaricites	0.5
45544	169	824C	2002-12-31	Siderastrea radians	0.0

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
53962	169	824C	2002-12-31	Agaricia humilis	0.0
60325	169	824C	2002-12-31	Agaricia agaricites	0.0
1771	169	82C	2005-12-31	Stephanocoenia intersepta	0.5
273568	169	83-2006	2006-12-31	Acropora cervicornis	0.6
21823	169	84-2007	2007-12-31	Acropora palmata	0.5
29311	169	862C	2005-12-31	Orbicella faveolata	0.5
36020	169	864C	2002-12-31	Mycetophyllia lamarckiana	0.5
9467	169	872C	2005-12-31	Porites astreoides	0.5
11142	169	887C	2005-12-31	Stephanocoenia intersepta	0.5
12138	169	887C	2005-12-31	Meandrina meandrites	0.5
13411	169	887C	2005-12-31	Siderastrea siderea	0.5
65196	169	888C	2002-12-31	Siderastrea siderea	0.5
65362	169	890C	2002-12-31	Siderastrea siderea	0.5
6482	169	9-2007	2007-12-31	Acropora cervicornis	0.0
2949	169	96C	2005-12-31	Porites astreoides	0.5
16428	169	96C	2005-12-31	Siderastrea siderea	0.5
19404	169	96C	2005-12-31	Agaricia agaricites	0.5
21717	169	99-2006	2006-12-31	Acropora palmata	0.3
70014	169	A108-2012	2012-12-31	Acropora cervicornis	0.5
111494	169	A425-2012	2012-12-31	Acropora palmata	0.5
6699699	3022	1328-881039-3022B	2014-08-08	Stephanocoenia intersepta	0.0
6757320	3022	2127-1224420-3022B	2014-07-21	Siderastrea siderea	0.5
6953455	3022	2127-1224420-3022B	2014-07-21	Mycetophyllia aliciae	0.5
6854426	3022	2144-1467441-3022B	2014-07-20	Stephanocoenia intersepta	0.5
6628349	3022	2146-1498127-3022B	2014-07-20	Siderastrea siderea	0.5
6629479	3022	2146-1498127-3022B	2014-07-20	Orbicella franksi	0.5
6744807	3022	2175-1438738-3022B	2014-07-20	Siderastrea siderea	0.5
6740757	3022	2195-1281175-3022B	2014-07-21	Montastraea cavernosa	0.5
6677023	3022	2232-1508696-3022B	2014-06-08	Stephanocoenia intersepta	0.0
6697110	3022	2232-1508696-3022B	2014-06-08	Siderastrea siderea	0.0
6628168	3022	2248-1628075-3022B	2014-06-02	Agaricia lamarcki	0.0
6610073	3022	2253-1336385-3022B	2014-07-21	Montastraea cavernosa	0.5
6711013	3022	2253-1336385-3022B	2014-07-21	Siderastrea siderea	0.5
6958238	3022	2253-1336385-3022B	2014-07-21	Stephanocoenia intersepta	0.5
6712230	3022	2312-1433911-3022B	2014-07-20	Stephanocoenia intersepta	0.5
6957938	3022	2312-1433911-3022B	2014-07-20	Siderastrea siderea	0.5
6628685	3022	2335-1464745-3022B	2014-07-22	Agaricia fragilis	0.3
6640792	3022	2335-1464745-3022B	2014-07-22	Siderastrea radians	0.6
6669173	3022	2335-1464745-3022B	2014-07-22	Agaricia lamarcki	0.3
6672829	3022	2335-1464745-3022B	2014-07-22	Orbicella franksi	0.3
6726799	3022	2335-1464745-3022B	2014-07-22	Siderastrea radians	0.3
6845521	3022	2335-1464745-3022B	2014-07-22	Siderastrea radians	0.5
6952287	3022	2335-1464745-3022B	2014-07-22	Orbicella franksi	0.5
6686941	3022	2337-1408892-3022B	2014-07-22	Stephanocoenia intersepta	0.5
6769032	3022	2337-1408892-3022B	2014-07-22	Siderastrea siderea	0.5
6845603	3022	2337-1408892-3022B	2014-07-22	Siderastrea radians	0.5
6653610	3022	2386-1539067-3022B	2014-07-25	Siderastrea siderea	0.5
6845427	3022	2386-1539067-3022B	2014-07-25	Montastraea cavernosa	0.5
6952202	3022	2386-1539067-3022B	2014-07-25	Agaricia agaricites	0.5
6630363	3022	2408-1514527-3022B	2014-07-22	Porites astreoides	0.5
6640581	3022	2423-1599179-3022B	2014-07-25	Agaricia lamarcki	0.5
6725090	3022	2423-1599179-3022B	2014-07-25	Orbicella franksi	0.5



RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
6954668	3022	2423-1599179-3022B	2014-07-25	Mycetophyllia ferox	0.5
6710952	3022	2669-1356987-3022B	2014-07-21	Porites astreoides	0.5
6740704	3022	2669-1356987-3022B	2014-07-21	Montastraea cavernosa	0.5
6894020	3022	2669-1356987-3022B	2014-07-21	Stephanocoenia intersepta	0.5
6365508	5040	Boot Key-1	2018-01-22	Siderastrea siderea	0.0

**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)

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

*5040* - Coral Disease Monitoring Sentinel Sites

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

## Colony Width

Table 5: Flagged Values - Low Indicator Quantile: **2**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
1191162	136	AR1	2019-08-08	Acropora palmata	1.00
1195408	136	CF2	2011-09-15	Acropora palmata	1.50
1272525	136	CF2	2011-09-15	Acropora palmata	1.00
1263449	136	CF4	2011-09-15	Acropora palmata	1.00
1372014	136	CF4	2015-02-24	Acropora palmata	1.00
1086328	136	EL1	2014-10-02	Acropora palmata	1.00
1307797	136	EL1	2016-09-15	Acropora palmata	1.00
1087682	136	EL1	2018-10-12	Acropora palmata	1.00
1124610	136	EL2	2013-10-21	Acropora palmata	1.00
1228347	136	EL2	2017-01-20	Acropora palmata	1.00
1264266	136	EL2	2017-06-15	Acropora palmata	1.00
1309443	136	EL2	2018-06-04	Acropora palmata	1.00
1831683	136	EL2	2018-10-12	Acropora palmata	1.00
1873931	136	EL2	2019-06-12	Acropora palmata	1.00
1272264	136	EL2	2019-10-10	Acropora palmata	1.00
1070813	136	EL3	2011-05-11	Acropora palmata	1.00
1374991	136	EL3	2011-09-28	Acropora palmata	1.00
1264685	136	EL3	2014-10-06	Acropora palmata	1.00
1270143	136	EL4	2019-06-11	Acropora palmata	1.00
1234888	136	EL4	2019-10-10	Acropora palmata	1.00
1024528	136	FR1	2017-10-18	Acropora palmata	1.00
1450642	136	FR1	2022-11-15	Acropora palmata	1.00
1792839	136	FR2	2014-09-30	Acropora palmata	1.00
1844082	136	FR2	2015-02-12	Acropora palmata	1.00
1126820	136	FR2	2015-09-25	Acropora palmata	1.00
1272657	136	FR2	2016-09-13	Acropora palmata	1.00
1290166	136	FR2	2018-05-31	Acropora palmata	1.00
1274759	136	FR3	2015-02-12	Acropora palmata	1.00
1425457	136	GR3	2017-06-28	Acropora palmata	1.00
983593	136	HS3	2017-07-12	Acropora palmata	1.00
1126467	136	KL3	2010-05-26	Acropora palmata	1.00
1232145	136	KL3	2011-09-14	Acropora palmata	0.50
1294057	136	KL3	2012-09-18	Acropora palmata	1.00
1303922	136	KL3	2013-02-07	Acropora palmata	1.00
1427353	136	KL3	2015-09-22	Acropora palmata	1.00
1085300	136	ML1	2008-05-20	Acropora palmata	1.00
1244955	136	ML1	2011-02-09	Acropora palmata	1.00
1222535	136	ML2	2006-05-24	Acropora palmata	1.00
1232858	136	ML2	2008-05-20	Acropora palmata	1.00
1332869	136	ML2	2016-03-02	Acropora palmata	1.00
1109966	136	ML2	2016-06-17	Acropora palmata	1.00
1279978	136	ML2	2017-01-25	Acropora palmata	1.00
1318583	136	ML2	2018-10-12	Acropora palmata	1.00
1330308	136	ML3	2018-05-29	Acropora palmata	1.00
1085369	136	NN1	2018-09-11	Acropora palmata	1.00
1310124	136	SI1	2013-06-03	Acropora palmata	1.00

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
1245880	136	SI1	2013-09-19	Acropora palmata	1.00
1319696	136	SI1	2014-01-29	Acropora palmata	1.00
1299993	136	SI1	2015-02-23	Acropora palmata	1.00
1119323	136	SI1	2017-09-29	Acropora palmata	1.00
1227868	136	SI1	2018-06-01	Acropora palmata	1.00
1191705	136	SI1	2019-10-09	Acropora palmata	1.00
1887116	136	SI2	2010-05-24	Acropora palmata	1.00
1109046	136	SI2	2010-10-01	Acropora palmata	1.00
1191706	136	SI2	2011-05-19	Acropora palmata	1.00
1287111	136	SI2	2011-09-16	Acropora palmata	1.00
1315722	136	SI2	2012-01-18	Acropora palmata	1.00
988602	136	SI2	2012-09-20	Acropora palmata	1.00
1885837	136	SI2	2013-09-19	Acropora palmata	1.00
1134812	136	SI2	2014-10-03	Acropora palmata	1.00
1626515	136	SI2	2015-10-09	Acropora palmata	1.00
1626516	136	SI2	2016-09-14	Acropora palmata	1.00
1319410	136	SI2	2018-06-01	Acropora palmata	1.00
1301281	136	SI3	2015-02-23	Acropora palmata	1.00
1327656	136	SI3	2015-10-09	Acropora palmata	1.00
1225754	136	TR1	2010-05-18	Acropora palmata	1.00
1317880	136	TR1	2011-07-19	Acropora palmata	1.00
1244673	136	TR1	2015-07-22	Acropora palmata	1.00
1273204	136	TR2	2017-12-08	Acropora palmata	1.00
1172535	136	TR2	2018-07-13	Acropora palmata	1.00
1272130	136	TR3	2017-08-30	Acropora palmata	1.00
1051184	136	WA1	2019-10-22	Acropora palmata	1.00
6334174	981	A1120	2005-09-12	Agaricia agaricites	1.00
6383333	981	A4005	2005-08-22	Porites divaricata	1.00
6636441	981	MQ20	2019-08-22	Siderastrea siderea	1.00
6691894	981	S2096	2018-09-14	Siderastrea siderea	1.00
6850435	981	T1236	2019-08-27	Porites porites	1.00
6710935	981	V1326	2021-09-08	Siderastrea siderea	1.00
6835956	981	V1326	2021-09-08	Stephanocoenia intersepta	1.00
6886750	981	V1335	2021-09-23	Stephanocoenia intersepta	1.00
6702125	981	V3008	2021-09-09	Porites astreoides	1.00
6718376	981	V3024	2021-09-16	Orbicella faveolata	1.00
6837057	981	W1307	2022-08-31	Porites astreoides	1.00
6432939	981	W1340	2022-08-19	Agaricia agaricites	1.00
6751217	981	W3019	2022-09-23	Siderastrea siderea	1.00
6548810	981	Y1208	2023-09-22	Porites astreoides	1.00
6749225	3022	1008-1138030-3022B	2018-08-13	Favia fragum	1.00
6749337	3022	1008-1138030-3022B	2018-08-13	Siderastrea radians	1.00
6902271	3022	1033-2008583-3022B	2015-08-16	Porites astreoides	1.00
6968057	3022	1052-2003948-3022B	2015-08-16	Porites porites	1.00
6796297	3022	1063-2293416-3022B	2022-07-13	Colpophyllia natans	1.00
6787602	3022	1085-1964514-3022B	2018-09-25	Porites spp.	1.50
6853320	3022	1089-1960897-3022B	2018-09-25	Porites porites	1.50
6780322	3022	1095-1975207-3022B	2018-09-27	Porites porites	1.50
6865325	3022	1101-1976998-3022B	2018-09-27	Agaricia agaricites	1.50
6840836	3022	1138-1906339-3022B	2014-07-01	Agaricia spp.	1.00
6749059	3022	1142-1943617-3022B	2014-09-19	Siderastrea siderea	1.00
6847680	3022	1142-1943617-3022B	2014-09-19	Porites porites	1.00

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
6770886	3022	1146-1898987-3022B	2014-06-30	Agaricia spp.	1.00
6908633	3022	1168-2003709-3022B	2018-10-24	Porites astreoides	1.00
6967157	3022	1172-1884276-3022B	2014-06-25	Agaricia agaricites	1.00
6773427	3022	1198-1820412-3022B	2018-08-08	Pseudodiploria strigosa	1.00
6847024	3022	1198-1893423-3022B	2014-06-29	Agaricia spp.	1.00
6732559	3022	1199-1895085-3022B	2014-06-29	Agaricia spp.	1.00
6868368	3022	1259-1444730-3022B	2016-08-12	Siderastrea siderea	1.00
6865519	3022	1288-1850237-3022B	2018-08-07	Montastraea cavernosa	1.00
6780920	3022	1312-1797085-3022B	2016-12-14	Acropora cervicornis	1.00
6734552	3022	1331-912483-3022B	2014-08-08	Porites astreoides	1.00
6972786	3022	1335-1358764-3022B	2016-08-11	Porites porites	1.00
6852820	3022	1375-965172-3022B	2018-08-13	Siderastrea radians	1.00
6853991	3022	1391-895691-3022B	2014-08-11	Porites furcata	1.00
6755191	3022	1446-871567-3022B	2014-08-09	Porites astreoides	1.00
6754062	3022	1453-852496-3022B	2014-08-04	Agaricia spp.	0.00
6796206	3022	1473-3603970-3022B	2022-08-05	Agaricia agaricites	1.00
6749132	3022	1669-1969230-3022B	2018-09-25	Porites porites	1.00
6913254	3022	2050-821367-3022B	2016-05-20	Agaricia agaricites	1.00
6871168	3022	2061-599835-3022B	2021-08-23	Stephanocoenia intersepta	1.00
6803311	3022	2152-602695-3022B	2021-08-23	Agaricia agaricites	1.00
6860068	3022	2159-1621483-3022B	2018-07-15	Porites porites	1.00
6785163	3022	2175-1438738-3022B	2014-07-20	Porites porites	1.50
6795910	3022	2205-1385188-3022B	2016-05-16	Acropora cervicornis	1.00
6795461	3022	2207-1424177-3022B	2016-05-17	Porites porites	1.00
6803654	3022	2227-633796-3022B	2022-09-09	Porites porites	1.00
6791301	3022	2597-1604607-3022B	2016-05-18	Acropora cervicornis	1.00
6780852	3022	2669-1356987-3022B	2014-07-21	Stephanocoenia intersepta	0.35
6864049	3022	3095-1480105-3022B	2020-09-15	Porites porites	1.00
6812105	3022	3157-723185-3022B	2022-08-11	Siderastrea radians	1.00
6910689	3022	3280-71981-3022B	2016-09-03	Siderastrea siderea	1.00
6787865	3022	3582-364828-3022B	2014-10-01	Porites astreoides	1.00
6249407	4019	IRMA_056	2017-10-09	Acropora cervicornis	1.00
6214774	4019	IRMA_089	2017-10-17	Acropora cervicornis	1.00
6279692	5040	Grouper Reef-2	2018-01-24	Montastraea cavernosa	1.50
6286543	5040	Grouper Reef-2	2018-01-24	Montastraea cavernosa	1.00

#### 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

There are no *Low* Quantile Flagged Values for Percent Cover

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

## High Quantile

### Indicator: Community Composition

#### Colony Density

Table 6: Flagged Values - High Indicator Quantile: **37.531**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
6355540	4019	IRMA_004	2017-10-12	Siderastrea siderea	45
6228505	4019	IRMA_016	2017-10-12	Siderastrea siderea	41
6231299	4019	IRMA_031	2017-10-16	Stephanocoenia intersepta	47
6589901	4019	IRMA_031	2017-10-16	Siderastrea siderea	97
6355434	4019	IRMA_032	2017-10-15	Siderastrea siderea	86
6141826	4019	IRMA_035	2017-10-17	Montastraea cavernosa	45
6265660	4019	IRMA_035	2017-10-17	Siderastrea siderea	109
6355305	4019	IRMA_035	2017-10-17	Stephanocoenia intersepta	51
6234340	4019	IRMA_036	2017-10-17	Siderastrea siderea	43
6262308	4019	IRMA_036	2017-10-17	Stephanocoenia intersepta	53
6349940	4019	IRMA_038	2017-10-14	Siderastrea siderea	72
6291188	4019	IRMA_043	2017-10-12	Siderastrea siderea	76
6290980	4019	IRMA_045	2017-10-16	Siderastrea siderea	39
6265663	4019	IRMA_046	2017-10-15	Siderastrea siderea	54
6589506	4019	IRMA_051	2017-10-16	Stephanocoenia intersepta	69
6589930	4019	IRMA_051	2017-10-16	Siderastrea siderea	69
6264591	4019	IRMA_052	2017-10-17	Siderastrea siderea	100
6347015	4019	IRMA_052	2017-10-17	Stephanocoenia intersepta	53
6262585	4019	IRMA_053	2017-10-14	Siderastrea siderea	41
6349644	4019	IRMA_064	2017-10-15	Siderastrea siderea	56
6234911	4019	IRMA_067	2017-10-14	Siderastrea siderea	55
6589905	4019	IRMA_069	2017-10-16	Siderastrea siderea	42
6232441	4019	IRMA_070	2017-10-16	Stephanocoenia intersepta	61
6349464	4019	IRMA_070	2017-10-16	Siderastrea siderea	71
6228365	4019	IRMA_073	2017-10-14	Siderastrea siderea	70
6234910	4019	IRMA_074	2017-10-14	Siderastrea siderea	51
6355524	4019	IRMA_074	2017-10-14	Porites astreoides	48
6589854	4019	IRMA_075	2017-10-16	Siderastrea siderea	39
6142354	4019	IRMA_081	2017-10-18	Porites astreoides	40
6261822	4019	IRMA_086	2017-10-15	Siderastrea siderea	54
6234913	4019	IRMA_087	2017-10-17	Porites astreoides	150
6264953	4019	IRMA_095	2017-10-12	Siderastrea siderea	63
6291146	4019	IRMA_096	2017-10-13	Siderastrea siderea	38
6349467	4019	IRMA_097	2017-10-15	Siderastrea siderea	50
6228368	4019	IRMA_099	2017-10-17	Siderastrea siderea	96
6234339	4019	IRMA_102	2017-10-09	Porites astreoides	50
6262589	4019	IRMA_104	2017-10-16	Siderastrea siderea	41
6097422	4019	IRMA_105	2017-10-16	Siderastrea siderea	57
6589542	4019	IRMA_105	2017-10-16	Stephanocoenia intersepta	42
6260949	4019	IRMA_109	2017-10-16	Stephanocoenia intersepta	61
6291184	4019	IRMA_109	2017-10-16	Siderastrea siderea	145
6228366	4019	IRMA_115	2017-10-13	Siderastrea siderea	55
6070191	5042	Irma 4	2018-01-01	Montastraea cavernosa	38

Programs containing flagged data:

4019 - Post-Hurricane Irma Rapid Assessment  
5042 - 2017 Coral Disease Boundary Survey

**Count**Table 7: Flagged Values - High Indicator Quantile: **1000**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
6884037	3024	40	2004-07-28	Unidentified fish	2000
6879766	3024	40	2004-08-18	Unidentified fish	2000
6970050	3024	65	1997-08-16	Eucinostomus melanopterus	2000
6773251	3024	91	2004-08-05	Unidentified fish	2000
6908382	3024	91	2004-08-05	Unidentified fish	3000

**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 8: Flagged Values - High Indicator Quantile: **1000**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
6972549	3024	10	2011-04-23	Haemulon aurolineatum	2000
6747774	3024	100	2001-07-21	Haemulidae	2000
6772717	3024	105	1997-11-15	Haemulon melanurum	2000
6981392	3024	115	2006-06-20	Haemulon aurolineatum	6000
6869309	3024	125	2000-05-20	Haemulidae	2000
6833197	3024	125	2001-04-07	Haemulidae	2000
6849342	3024	133	2008-06-14	Haemulon aurolineatum	3000
6906155	3024	136	2008-07-26	Haemulon aurolineatum	5000
6866739	3024	184	2009-06-18	Haemulidae	2000
6789088	3024	194	2012-08-04	Decapterus macarellus	4000
6977731	3024	200	2011-09-17	Haemulon aurolineatum	2000
6882981	3024	229	2014-06-07	Selar crumenophthalmus	2000
6767621	3024	23	1997-09-20	Haemulon chrysargyreum	1500
6772429	3024	23	1997-09-20	Haemulon aurolineatum	2000
6772430	3024	23	1997-09-20	Haemulon aurolineatum	1500
6804644	3024	23	2000-06-03	Haemulon aurolineatum	1200
6840382	3024	27	2007-01-20	Haemulon aurolineatum	5000
6798943	3024	46	2006-11-18	Haemulon aurolineatum	1015
6812385	3024	46	2006-11-18	Haemulon aurolineatum	4000
6980483	3024	55	2002-07-17	Haemulon aurolineatum	1015
6766337	3024	56	2008-05-31	Haemulon aurolineatum	2000
6858382	3024	56	2008-05-31	Haemulon aurolineatum	1500
6873518	3024	6	2001-07-17	Decapterus punctatus	2000
6981481	3024	6	2001-07-17	Haemulon aurolineatum	2000
6850828	3024	65	1998-02-14	Haemulon aurolineatum	1100
6747566	3024	65	1999-09-11	Haemulidae	2000
6829427	3024	65	2001-12-16	Haemulon aurolineatum	1500
6855625	3024	65	2001-12-16	Anisotremus virginicus	2000
6767724	3024	81	2002-05-11	Haemulon aurolineatum	4000

### 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

## Indicator: Percent Cover

### Colony Diameter

Table 9: Flagged Values - High Indicator Quantile: **240**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
152581	169	100-2006	2006-12-31	Acropora palmata	250
25805	169	125C	2009-12-31	Orbicella faveolata	245
15717	169	217-2007	2007-12-31	Acropora palmata	270
145695	169	241C	1999-12-31	Orbicella faveolata	294
147332	169	241C	1999-12-31	Orbicella faveolata	385
192087	169	241C	1999-12-31	Orbicella faveolata	250
179295	169	242C	1999-12-31	Orbicella faveolata	300
195806	169	242C	1999-12-31	Orbicella faveolata	255
63928	169	244C	2009-12-31	Orbicella faveolata	510
75568	169	244C	2009-12-31	Orbicella faveolata	305
182190	169	245C	1999-12-31	Orbicella faveolata	265
342151	169	245C	1999-12-31	Orbicella faveolata	334
38910	169	246C	2005-12-31	Acropora palmata	390
103751	169	272-2011	2011-12-31	Acropora palmata	268
246579	169	28-2007	2007-12-31	Acropora palmata	283
180031	169	29C	1999-12-31	Orbicella faveolata	250
36157	169	338C	2009-12-31	Orbicella annularis	280
47823	169	338C	2009-12-31	Orbicella annularis	360
107220	169	338C	2009-12-31	Orbicella annularis	350
90418	169	364C	1999-12-31	Orbicella faveolata	265
109341	169	364C	1999-12-31	Siderastrea siderea	315
159596	169	39-2006	2006-12-31	Acropora palmata	280
207605	169	41C	2000-12-31	Orbicella faveolata	260
56757	169	45C	2002-12-31	Orbicella franksi	250
41402	169	471C	2005-12-31	Orbicella annularis	270
48419	169	471C	2005-12-31	Orbicella faveolata	295
35327	169	473C	2009-12-31	Orbicella faveolata	285
369511	169	496C	2000-12-31	Orbicella franksi	255
357791	169	500C	1999-12-31	Orbicella faveolata	280
60316	169	607C	2009-12-31	Orbicella annularis	250
96536	169	607C	2009-12-31	Orbicella annularis	400
96537	169	607C	2009-12-31	Orbicella annularis	360
50385	169	622C	2005-12-31	Orbicella faveolata	285
53607	169	622C	2005-12-31	Montastraea cavernosa	245
60972	169	622C	2005-12-31	Orbicella faveolata	280
53623	169	639C	2005-12-31	Orbicella faveolata	380
54655	169	639C	2005-12-31	Orbicella faveolata	325
55099	169	639C	2005-12-31	Orbicella faveolata	370
55200	169	639C	2005-12-31	Orbicella faveolata	340
110313	169	639C	2005-12-31	Orbicella faveolata	250
51225	169	648C	2009-12-31	Dendrogyra cylindrus	260
89888	169	674C	1999-12-31	Orbicella faveolata	355
97346	169	674C	1999-12-31	Orbicella faveolata	270

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
98536	169	674C	1999-12-31	Orbicella faveolata	410
97819	169	700C	1999-12-31	Orbicella faveolata	300
97640	169	701C	1999-12-31	Orbicella faveolata	270
82653	169	754C	1999-12-31	Orbicella faveolata	310
81444	169	815C	2005-12-31	Acropora palmata	315
96147	169	815C	2005-12-31	Acropora palmata	320
73895	169	A425-2012	2012-12-31	Acropora palmata	278
6188276	3022	1063-2293416-3022B	2022-07-13	Orbicella faveolata	370
6917082	3022	1130-1940938-3022B	2014-09-19	Orbicella faveolata	245
6880376	3022	1133-1856327-3022B	2014-07-24	Colpophyllia natans	245
6825849	3022	1148-1901802-3022B	2014-06-30	Orbicella faveolata	285
6880927	3022	1148-1901802-3022B	2014-06-30	Orbicella faveolata	280
6128254	3022	1201-1917232-3022B	2016-12-07	Orbicella faveolata	500
6287551	3022	1201-1917232-3022B	2016-12-07	Orbicella faveolata	270
6881249	3022	1297-1809650-3022B	2014-10-17	Orbicella faveolata	290
6879961	3022	1299-1795185-3022B	2014-10-18	Colpophyllia natans	250
6806367	3022	1325-1030082-3022B	2014-08-06	Orbicella faveolata	385
6833785	3022	1326-1171995-3022B	2014-08-24	Orbicella faveolata	245
6881513	3022	1327-1248516-3022B	2015-05-08	Orbicella faveolata	300
6978053	3022	1327-1248516-3022B	2015-05-08	Orbicella faveolata	340
6148000	3022	1350-1214471-3022B	2016-07-13	Orbicella annularis	380
6186449	3022	1381-2055312-3022B	2022-07-15	Orbicella faveolata	260
6113972	3022	1412-1112984-3022B	2016-07-14	Orbicella faveolata	260
6808730	3022	1421-1337948-3022B	2015-06-23	Orbicella annularis	350
6806114	3022	1429-1138019-3022B	2014-08-14	Orbicella faveolata	260
6806207	3022	1639-1509874-3022B	2014-11-09	Orbicella faveolata	290
6132562	3022	2160-1618180-3022B	2016-05-12	Orbicella franksi	300
6827735	3022	2239-1552551-3022B	2018-08-24	Orbicella annularis	315
6509293	3022	2313-510699-3022B	2022-09-09	Orbicella faveolata	430
6255701	3022	2329-265062-3022B	2021-09-17	Orbicella faveolata	307
6982648	3022	2332-1345237-3022B	2018-08-21	Orbicella faveolata	350
6923907	3022	2777-1500208-3022B	2018-08-28	Orbicella faveolata	250
6205335	3022	2800-512034-3022B	2021-08-24	Orbicella faveolata	300

**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)

## Colony Height

Table 10: Flagged Values - High Indicator Quantile: **155**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
1222277	136	SI2	2017-09-29	Acropora palmata	159
1201463	136	SI2	2022-11-14	Acropora palmata	170
1155052	136	TR1	2015-07-22	Acropora palmata	201
1164409	136	TR1	2015-07-22	Acropora palmata	177
7956	169	116C	2001-12-31	Orbicella faveolata	187
45572	169	238C	2000-12-31	Orbicella faveolata	200
1635	169	239C	2009-12-31	Orbicella faveolata	190
40259	169	241C	1999-12-31	Orbicella faveolata	245
42221	169	241C	1999-12-31	Orbicella faveolata	205
34698	169	242C	1999-12-31	Orbicella faveolata	175
48836	169	242C	1999-12-31	Orbicella faveolata	177
53	169	244C	2009-12-31	Orbicella faveolata	240
1313	169	244C	2009-12-31	Orbicella faveolata	160
8312	169	244C	2009-12-31	Orbicella annularis	160
34696	169	245C	1999-12-31	Orbicella faveolata	182
37318	169	245C	1999-12-31	Orbicella faveolata	170
109137	169	273-2011	2011-12-31	Acropora palmata	319
58601	169	276-2011	2011-12-31	Acropora palmata	245
44934	169	292C	2000-12-31	Orbicella faveolata	158
39532	169	29C	1999-12-31	Orbicella faveolata	200
15288	169	338C	2009-12-31	Orbicella annularis	165
25570	169	347C	1999-12-31	Orbicella faveolata	205
33428	169	347C	1999-12-31	Orbicella faveolata	210
429620	169	39-2006	2006-12-31	Acropora palmata	190
44406	169	405C	2000-12-31	Orbicella faveolata	230
59502	169	45C	2002-12-31	Orbicella franksi	160
37157	169	471C	2005-12-31	Orbicella faveolata	160
42541	169	505C	2000-12-31	Orbicella franksi	170
41938	169	517C	2006-12-31	Colpophyllia natans	185
27695	169	576C	2001-12-31	Orbicella faveolata	180
9280	169	577C	2001-12-31	Colpophyllia natans	175
14828	169	580C	2005-12-31	Orbicella faveolata	160
11575	169	59C	2005-12-31	Orbicella faveolata	180
17092	169	622C	2005-12-31	Orbicella faveolata	280
26946	169	622C	2005-12-31	Orbicella faveolata	170
29580	169	622C	2005-12-31	Orbicella faveolata	160
31408	169	622C	2005-12-31	Orbicella faveolata	165
31742	169	622C	2005-12-31	Orbicella faveolata	225
32437	169	622C	2005-12-31	Orbicella faveolata	240
41891	169	622C	2005-12-31	Orbicella faveolata	200
17174	169	639C	2005-12-31	Orbicella faveolata	160
29581	169	639C	2005-12-31	Orbicella faveolata	180
31021	169	639C	2005-12-31	Orbicella faveolata	200
43949	169	639C	2005-12-31	Orbicella faveolata	170
10373	169	674C	1999-12-31	Orbicella faveolata	157
12674	169	674C	1999-12-31	Orbicella faveolata	168
17627	169	674C	1999-12-31	Orbicella faveolata	200
56553	169	6C	1999-12-31	Orbicella faveolata	305

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
9140	169	700C	1999-12-31	Orbicella faveolata	165
14110	169	701C	1999-12-31	Orbicella faveolata	160
18974	169	714C	2005-12-31	Orbicella faveolata	200
10993	169	74C	2001-12-31	Dendrogyra cylindrus	185
24626	169	754C	1999-12-31	Orbicella faveolata	200
63373	169	891C	2002-12-31	Millepora alcicornis	200
6669863	981	C1094	2006-09-18	Orbicella faveolata	185
6504960	981	C4110	2006-09-13	Orbicella faveolata	200
6708437	981	E1160	2008-08-06	Siderastrea siderea	200
6548697	981	F1007	2009-09-09	Orbicella faveolata	205
6587243	981	F1077	2009-08-04	Orbicella annularis	160
6701106	981	F1080	2009-08-04	Orbicella faveolata	170
6689574	981	I1343	2010-08-20	Montastraea cavernosa	160
6601644	981	I1347	2010-08-20	Orbicella faveolata	200
6666389	981	I1355	2010-08-13	Orbicella faveolata	300
6529462	981	I1377	2010-08-12	Orbicella annularis	190
6592041	981	I1377	2010-08-12	Orbicella annularis	160
6634039	981	I1377	2010-08-12	Orbicella annularis	210
6672739	981	I1377	2010-08-12	Orbicella annularis	180
6634086	981	I1410	2010-08-03	Orbicella annularis	220
6571541	981	I1435	2010-08-17	Montastraea cavernosa	178
6596103	981	J2840	2011-09-16	Orbicella faveolata	168
6730213	981	K1044	2012-10-09	Colpophyllia natans	188
6943109	981	K1133	2012-09-18	Orbicella faveolata	160
6587767	981	K1211	2012-10-15	Siderastrea radians	156
6948034	981	K2256	2012-09-24	Orbicella faveolata	165
6648202	981	L1036	2013-10-16	Orbicella faveolata	160
6648542	981	L1036	2013-10-16	Orbicella faveolata	180
6597536	981	L2109	2013-10-07	Orbicella faveolata	200
6624060	981	L2159	2013-10-08	Montastraea cavernosa	170
6822022	981	L2159	2013-10-08	Colpophyllia natans	170
6583822	981	M1109	2014-10-06	Orbicella faveolata	160
6609007	981	M1231	2014-09-21	Orbicella faveolata	200
6722795	981	M1235	2014-09-09	Orbicella faveolata	400
6570408	981	M2434	2014-09-19	Montastraea cavernosa	276
6307738	981	MQ2	2019-08-21	Orbicella faveolata	176
6671373	981	O1257	2015-09-10	Orbicella faveolata	180
6712222	981	O1313	2015-09-23	Orbicella faveolata	200
6945592	981	O1313	2015-09-23	Orbicella faveolata	180
6580183	981	O3086	2015-09-23	Orbicella faveolata	200
6675117	981	O3086	2015-09-23	Orbicella faveolata	180
6714409	981	O3086	2015-09-23	Orbicella faveolata	160
6298272	981	O3137	2015-10-14	Orbicella faveolata	160
6356736	981	Q1193	2016-09-12	Orbicella annularis	200
6383325	981	Q1193	2016-09-12	Orbicella annularis	300
6800191	981	Q1193	2016-09-12	Orbicella annularis	400
6277917	981	Q1217	2016-09-06	Orbicella annularis	225
6283070	981	R3004	2017-08-17	Orbicella faveolata	170
6445990	981	R3005	2017-08-17	Montastraea cavernosa	170
6424629	981	S1158	2018-10-11	Siderastrea siderea	500
6407720	981	S1253	2018-08-27	Montastraea cavernosa	300
6273837	981	S3010	2018-09-20	Orbicella faveolata	185

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
6315820	981	S3010	2018-09-20	Orbicella faveolata	170
6512564	981	S3010	2018-09-20	Orbicella faveolata	230
6306166	981	T2249	2019-08-16	Orbicella faveolata	190
6313090	981	T2249	2019-08-16	Orbicella faveolata	225
6399885	981	T3003	2019-08-28	Orbicella faveolata	200
6392633	981	T3037	2019-10-22	Orbicella faveolata	165
6905762	981	U1219-2	2020-09-20	Orbicella faveolata	160
6631784	981	U1279	2020-10-12	Colpophyllia natans	300
6407268	981	U1399	2020-10-30	Montastraea cavernosa	210
6406669	981	U1568	2020-10-12	Orbicella faveolata	190
6919789	981	U1568	2020-10-12	Orbicella faveolata	252
6542426	981	U1653	2020-10-11	Orbicella faveolata	193
6409906	981	U2494	2020-09-18	Orbicella annularis	165
6905311	981	U3050	2020-09-18	Orbicella faveolata	170
6379427	981	UMQ20-16	2020-08-30	Montastraea cavernosa	200
6538985	981	V1244	2021-09-23	Orbicella annularis	160
6458555	981	V1330	2021-09-08	Siderastrea siderea	165
6527851	981	V1548	2021-09-17	Orbicella faveolata	199
6541990	981	V1555	2021-09-17	Orbicella faveolata	193
6531974	981	V3069	2021-10-15	Montastraea cavernosa	175
6462637	981	W1186	2022-10-14	Orbicella faveolata	165
6534732	981	W1246	2022-10-17	Orbicella annularis	195
6546351	981	W1246	2022-10-17	Orbicella annularis	190
6640829	981	W1246	2022-10-17	Orbicella annularis	255
6639640	981	W1250	2022-09-14	Siderastrea siderea	180
6669273	981	W1250	2022-09-14	Orbicella annularis	170
6720199	981	W1250	2022-09-14	Orbicella annularis	180
6504110	981	W1251	2022-09-14	Orbicella faveolata	210
6525041	981	W1251	2022-09-14	Colpophyllia natans	175
6432272	981	W1372	2022-10-25	Orbicella faveolata	158
6496345	981	W3020	2022-09-22	Orbicella faveolata	160
6737053	981	Y1192	2023-09-14	Orbicella faveolata	195
6587078	981	Y1243	2023-09-01	Orbicella faveolata	180
6597027	981	Y1250	2023-09-14	Orbicella annularis	165
6616018	981	Y1272	2023-09-14	Orbicella faveolata	225
6689382	981	Y1291	2023-09-19	Siderastrea siderea	200
6791059	981	Y1291	2023-09-19	Montastraea cavernosa	300
6633932	981	Y1294	2023-09-19	Orbicella faveolata	190
6704147	981	Y1294	2023-09-19	Orbicella faveolata	220
6811459	981	Y1294	2023-09-19	Orbicella faveolata	275
6731835	981	Y1298	2023-10-06	Orbicella faveolata	200
6739137	981	Y1300	2023-10-21	Orbicella faveolata	180
6799512	981	Y1305	2023-10-11	Siderastrea siderea	200
6648864	981	Y1341	2023-09-29	Orbicella annularis	200
6629543	981	Y1347	2023-09-29	Orbicella faveolata	300
6948451	981	Y1349	2023-09-06	Orbicella annularis	160
6587301	981	Y1384	2023-09-19	Orbicella faveolata	170
6736979	981	Y1384	2023-09-19	Orbicella faveolata	250
6820079	981	Y1384	2023-09-19	Orbicella annularis	170
6948945	981	Y1406	2023-09-19	Montastraea cavernosa	163
6617113	981	Y1434	2023-09-16	Orbicella faveolata	170
6596837	981	Y1469	2023-09-11	Orbicella faveolata	200

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
6718092	981	Y3005	2023-07-17	Orbicella annularis	160
6725926	981	Y3007	2023-07-31	Orbicella faveolata	190
6620669	981	Y3038	2023-09-10	Orbicella faveolata	170
6595718	981	YMQ23-19	2023-10-06	Orbicella faveolata	191
6512373	3022	1129-1938807-3022B	2014-09-15	Orbicella faveolata	190
6517251	3022	1150-1836013-3022B	2014-09-07	Orbicella faveolata	185
6761723	3022	1201-1917232-3022B	2016-12-07	Orbicella faveolata	200
6514998	3022	1231-1792899-3022B	2014-10-18	Orbicella faveolata	200
6658348	3022	1231-1792899-3022B	2014-10-18	Orbicella faveolata	180
6520499	3022	1297-1809650-3022B	2014-10-17	Orbicella faveolata	195
6520500	3022	1297-1809650-3022B	2014-10-17	Orbicella faveolata	190
6936704	3022	1325-1030082-3022B	2014-08-06	Orbicella faveolata	190
6535974	3022	1327-1248516-3022B	2015-05-08	Orbicella faveolata	165
6623114	3022	1327-1248516-3022B	2015-05-08	Orbicella faveolata	210
6654750	3022	1327-1248516-3022B	2015-05-08	Orbicella faveolata	180
6611133	3022	1333-1687187-3022B	2018-08-15	Orbicella faveolata	170
6517915	3022	1334-1006382-3022B	2014-08-12	Orbicella faveolata	190
6699733	3022	1412-1112984-3022B	2016-07-14	Orbicella faveolata	175
6506164	3022	1429-1138019-3022B	2014-08-14	Orbicella faveolata	190
6639325	3022	1429-1138019-3022B	2014-08-14	Orbicella faveolata	175
6560645	3022	1433-1009004-3022B	2014-08-14	Acropora cervicornis	325
6634650	3022	1443-920017-3022B	2014-08-12	Orbicella faveolata	250
6605807	3022	1639-1509874-3022B	2014-11-09	Orbicella faveolata	180
6809930	3022	2160-1618180-3022B	2016-05-12	Orbicella franksi	200
6815054	3022	2250-1351132-3022B	2016-05-16	Orbicella faveolata	230
6584425	3022	2260-1382491-3022B	2018-08-27	Montastraea cavernosa	300
6720485	3022	2311-375135-3022B	2021-09-17	Orbicella faveolata	199
6815040	3022	2329-265062-3022B	2021-09-17	Orbicella faveolata	193
6697051	3022	2334-1483795-3022B	2016-06-04	Orbicella faveolata	180
6814897	3022	2598-1345270-3022B	2016-05-19	Orbicella faveolata	190
6839491	3022	9001-2472501-3022B	2022-11-01	Orbicella annularis	180
6841489	3022	9088-2166134-3022B	2022-08-19	Orbicella faveolata	170
6839941	3022	9091-2169455-3022B	2022-08-18	Orbicella faveolata	160
6735947	3022	9215-3452882-3022B	2022-10-31	Orbicella faveolata	210
6735946	3022	9228-3837275-3022B	2022-08-23	Orbicella faveolata	170
6838732	3022	9228-3837275-3022B	2022-08-23	Orbicella faveolata	190
6272221	4019	IRMA_069	2017-10-16	Orbicella faveolata	220
6579300	4019	IRMA_069	2017-10-16	Orbicella faveolata	200
6247379	4019	IRMA_075	2017-10-16	Orbicella faveolata	170
6247386	4019	IRMA_099	2017-10-17	Orbicella faveolata	180
6247329	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: **361.87**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
1193897	136	CF3	2004-04-05	Acropora palmata	380
1208954	136	CF3	2004-07-22	Acropora palmata	385
1214444	136	CF3	2004-10-21	Acropora palmata	390
1336774	136	CF3	2005-02-03	Acropora palmata	390
1220453	136	CF3	2005-05-23	Acropora palmata	395
1214666	136	CF3	2009-12-10	Acropora palmata	362
1337156	136	CF3	2010-05-26	Acropora palmata	368
1336748	136	CF3	2010-10-29	Acropora palmata	367
1212399	136	CF3	2011-02-08	Acropora palmata	370
1193646	136	CF3	2011-05-12	Acropora palmata	365
1336770	136	CF3	2011-09-15	Acropora palmata	368
1127838	136	CF3	2012-01-12	Acropora palmata	364
1020119	136	FR1	2004-09-30	Acropora palmata	600
1195490	136	FR1	2005-08-01	Acropora palmata	600
1048124	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: **220**

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
1262380	136	CF3	2004-04-05	Acropora palmata	280
1268438	136	CF3	2004-07-22	Acropora palmata	285
1296103	136	CF3	2004-10-21	Acropora palmata	285
1172038	136	CF3	2005-02-03	Acropora palmata	285
1069367	136	CF3	2005-05-23	Acropora palmata	300
1272250	136	EL1	2012-02-08	Acropora palmata	221
1424812	136	EL1	2012-05-15	Acropora palmata	225
1070473	136	EL1	2012-09-24	Acropora palmata	225
1379504	136	EL1	2013-02-05	Acropora palmata	230
1264343	136	EL1	2013-06-03	Acropora palmata	230
1264040	136	EL1	2013-10-21	Acropora palmata	230
1236567	136	EL1	2014-02-06	Acropora palmata	233
1227800	136	EL1	2014-05-29	Acropora palmata	235
1103961	136	EL1	2014-10-02	Acropora palmata	235
1070540	136	EL1	2015-02-09	Acropora palmata	230
1236601	136	EL1	2015-06-05	Acropora palmata	235
1373887	136	EL1	2015-09-29	Acropora palmata	235
1263947	136	EL1	2016-03-01	Acropora palmata	237
1374433	136	EL1	2016-06-27	Acropora palmata	240
1024859	136	FR1	2004-09-30	Acropora palmata	250
1027457	136	FR1	2005-08-01	Acropora palmata	250
1271261	136	FR1	2012-05-09	Acropora palmata	228
1434632	136	ML3	2010-10-15	Acropora palmata	222
1299924	136	ML3	2011-02-09	Acropora palmata	222
1110070	136	ML3	2011-09-13	Acropora palmata	223
1120511	136	ML3	2012-01-19	Acropora palmata	225
1316910	136	ML3	2017-01-26	Acropora palmata	221
1278300	136	SI2	2018-06-01	Acropora palmata	228
1900694	136	SI2	2018-09-25	Acropora palmata	238
1886710	136	SI2	2019-10-09	Acropora palmata	224
6897361	981	D4030	2007-09-29	Orbicella faveolata	287
6817549	981	D4065	2007-09-19	Orbicella annularis	250
6544285	981	E1059	2008-09-23	Siderastrea siderea	285
6116693	981	E1098	2008-09-15	Siderastrea siderea	250
6542504	981	E4023	2008-08-12	Colpophyllia natans	300
6580675	981	F1001	2009-08-21	Orbicella annularis	250
6581612	981	F1001	2009-08-21	Orbicella annularis	270
6673829	981	F1048	2009-09-15	Orbicella franksi	250
6477267	981	F1080	2009-08-04	Orbicella faveolata	300
6505554	981	F1080	2009-08-04	Orbicella faveolata	250
6360845	981	F4012	2009-09-16	Colpophyllia natans	235
6285278	981	I1347	2010-08-20	Orbicella faveolata	290
6466756	981	I1355	2010-08-13	Orbicella faveolata	280
6607166	981	I1355	2010-08-13	Orbicella faveolata	300
6939420	981	I1355	2010-08-13	Colpophyllia natans	280
6260716	981	I1376	2010-08-12	Pseudodiploria strigosa	240
6233180	981	I1377	2010-08-12	Orbicella annularis	300
6356815	981	I1377	2010-08-12	Orbicella annularis	270

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
6217951	981	I1410	2010-08-03	Orbicella annularis	270
6254319	981	J2640	2011-08-24	Colpophyllia natans	300
6276851	981	J2824	2011-09-07	Colpophyllia natans	250
6478973	981	J2824	2011-09-07	Orbicella annularis	230
6376409	981	J2840	2011-09-16	Orbicella faveolata	280
6667947	981	K1011	2012-09-13	Orbicella franksi	280
6367164	981	K1013	2012-09-12	Colpophyllia natans	250
6547136	981	K1028	2012-09-11	Orbicella faveolata	380
6231979	981	K1162	2012-09-07	Orbicella annularis	250
6214235	981	L2109	2013-10-07	Orbicella faveolata	250
6293480	981	L2148	2013-09-12	Pseudodiploria clivosa	250
6190964	981	L2159	2013-10-08	Colpophyllia natans	240
6297100	981	M1231	2014-09-21	Orbicella faveolata	375
6297445	981	M1235	2014-09-09	Orbicella faveolata	320
6184473	981	M2424	2014-09-21	Montastraea cavernosa	250
6227369	981	M2434	2014-09-19	Montastraea cavernosa	315
6762262	981	MQ21	2019-08-23	Orbicella faveolata	285
6398108	981	O1250	2015-08-18	Montastraea cavernosa	225
6402172	981	O1250	2015-08-18	Montastraea cavernosa	300
6544125	981	O2176	2015-09-03	Siderastrea siderea	222
6445101	981	O2211	2015-09-22	Montastraea cavernosa	270
6402365	981	O3085	2015-09-22	Orbicella annularis	250
6456478	981	O3085	2015-09-22	Orbicella annularis	300
6378985	981	O3086	2015-09-23	Orbicella annularis	240
6383146	981	O3086	2015-09-23	Orbicella faveolata	320
6469361	981	O3086	2015-09-23	Orbicella faveolata	270
6776392	981	Q1193	2016-09-12	Orbicella annularis	400
6905073	981	Q1193	2016-09-12	Orbicella annularis	325
6851934	981	Q1217	2016-09-06	Orbicella annularis	450
6852240	981	Q3022	2016-10-03	Diploria labyrinthiformis	230
6955757	981	Q3027	2016-09-06	Montastraea cavernosa	250
6734126	981	R2227	2017-10-23	Orbicella faveolata	224
6757328	981	R3004	2017-08-17	Orbicella faveolata	400
6636693	981	S1158	2018-10-11	Siderastrea siderea	300
6637643	981	S1158	2018-10-11	Siderastrea siderea	400
6653991	981	S1182	2018-10-25	Orbicella faveolata	230
6642041	981	S1232	2018-08-21	Orbicella faveolata	350
6674298	981	S3003	2018-08-24	Orbicella annularis	315
6731402	981	S3008	2018-09-17	Orbicella faveolata	310
6729392	981	S3009	2018-08-28	Orbicella faveolata	250
6649460	981	S3010	2018-09-20	Orbicella faveolata	300
6744243	981	S3010	2018-09-20	Orbicella faveolata	270
6765708	981	S3010	2018-09-20	Colpophyllia natans	230
6851076	981	T1127	2019-08-26	Orbicella faveolata	250
6764380	981	T1146	2019-08-15	Orbicella annularis	335
6957645	981	T1244	2019-09-25	Colpophyllia natans	230
6732466	981	T2249	2019-08-16	Orbicella faveolata	221
6850998	981	T2249	2019-08-16	Orbicella faveolata	315
6733038	981	T3003	2019-08-28	Orbicella faveolata	350
6757558	981	T3003	2019-08-28	Orbicella annularis	300
6689115	981	T3007	2019-09-09	Porites porites	225
6898668	981	U1568	2020-10-12	Orbicella faveolata	262

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
6964745	981	U1568	2020-10-12	Orbicella faveolata	313
6731641	981	U1653	2020-10-11	Orbicella faveolata	224
6702778	981	U2266	2020-09-10	Siderastrea siderea	230
6717601	981	U2494	2020-09-18	Orbicella annularis	250
6745614	981	U3006	2020-08-19	Montastraea cavernosa	350
6894968	981	V1230	2021-09-03	Orbicella faveolata	275
6957690	981	V1293	2021-09-02	Orbicella faveolata	236
6686270	981	V1534	2021-09-17	Orbicella faveolata	225
6723236	981	V1555	2021-09-17	Orbicella faveolata	307
6657840	981	V1558	2021-09-20	Orbicella faveolata	260
6894331	981	V3031	2021-09-21	Orbicella annularis	270
6679631	981	W1211	2022-08-18	Orbicella faveolata	625
6821418	981	W1211	2022-08-18	Orbicella faveolata	320
6234424	981	W1246	2022-10-17	Orbicella annularis	335
6262665	981	W1246	2022-10-17	Orbicella annularis	263
6601270	981	W1246	2022-10-17	Orbicella annularis	250
6940170	981	W1246	2022-10-17	Orbicella annularis	275
6239134	981	W1250	2022-09-14	Orbicella faveolata	260
6321884	981	W1250	2022-09-14	Siderastrea siderea	300
6121604	981	W1251	2022-09-14	Orbicella faveolata	450
6216855	981	W1251	2022-09-14	Colpophyllia natans	240
6837295	981	W1251	2022-09-14	Orbicella annularis	227
6515162	981	W1309	2022-09-20	Orbicella annularis	307
6368350	981	W1321	2022-09-16	Orbicella faveolata	243
6340667	981	W1356	2022-10-25	Montastraea cavernosa	250
6140223	981	W1393	2022-10-06	Orbicella faveolata	225
6895886	981	W1445	2022-09-16	Orbicella faveolata	280
6378051	981	WMQ22-19	2022-10-07	Orbicella faveolata	250
6361744	981	Y1192	2023-09-14	Orbicella faveolata	415
6893396	981	Y1272	2023-09-14	Orbicella faveolata	299
6569036	981	Y1291	2023-09-19	Siderastrea siderea	350
6672729	981	Y1294	2023-09-19	Orbicella faveolata	475
6677681	981	Y1294	2023-09-19	Orbicella faveolata	400
6711051	981	Y1300	2023-10-21	Orbicella faveolata	370
6742091	981	Y1341	2023-09-29	Orbicella annularis	500
6894903	981	Y1341	2023-09-29	Orbicella annularis	280
6961274	981	Y1341	2023-09-29	Orbicella annularis	335
6816449	981	Y1347	2023-09-29	Orbicella faveolata	250
6576383	981	Y1349	2023-09-06	Orbicella annularis	350
6665476	981	Y1349	2023-09-06	Orbicella faveolata	225
6530359	981	Y1354	2023-08-25	Orbicella faveolata	340
6541512	981	Y1354	2023-08-25	Orbicella faveolata	250
6548199	981	Y1354	2023-08-25	Orbicella faveolata	240
6548233	981	Y1354	2023-08-25	Orbicella faveolata	275
6944126	981	Y1354	2023-08-25	Orbicella faveolata	271
6568921	981	Y1355	2023-09-06	Orbicella faveolata	230
6577942	981	Y1355	2023-09-06	Orbicella faveolata	240
6768760	981	Y1355	2023-09-06	Orbicella faveolata	255
6708588	981	Y1358	2023-09-06	Orbicella annularis	255
6551936	981	Y1359	2023-08-25	Orbicella faveolata	230
6699701	981	Y1359	2023-08-25	Orbicella annularis	247
6376428	981	Y1384	2023-09-19	Orbicella faveolata	225

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
6516485	981	Y3005	2023-07-17	Orbicella annularis	230
6666480	981	Y3005	2023-07-17	Orbicella annularis	350
6854222	981	Y3007	2023-07-31	Orbicella faveolata	245
6944234	981	Y3038	2023-09-10	Orbicella faveolata	250
6728637	981	YMQ23-19	2023-10-06	Orbicella faveolata	225
6817182	981	YMQ23-58	2023-10-06	Orbicella annularis	230
6784036	3022	1063-2293416-3022B	2022-07-13	Orbicella faveolata	320
6847184	3022	1148-1901802-3022B	2014-06-30	Orbicella faveolata	260
6774708	3022	1201-1917232-3022B	2016-12-07	Orbicella faveolata	450
6967984	3022	1325-1030082-3022B	2014-08-06	Orbicella faveolata	277
6902427	3022	1327-1248516-3022B	2015-05-08	Orbicella faveolata	240
6864351	3022	1381-2055312-3022B	2022-07-15	Orbicella faveolata	230
6866619	3022	1412-1112984-3022B	2016-07-14	Orbicella faveolata	240
6980289	3022	1421-1337948-3022B	2015-06-23	Orbicella annularis	300
6967384	3022	1429-1138019-3022B	2014-08-14	Orbicella faveolata	235
6775367	3022	1639-1509874-3022B	2014-11-09	Orbicella faveolata	270
6973987	3022	2160-1618180-3022B	2016-05-12	Orbicella franksi	250
6872346	3022	2313-510699-3022B	2022-09-09	Orbicella faveolata	290
6248262	4019	IRMA_025	2017-10-18	Orbicella annularis	600
6335241	4019	IRMA_032	2017-10-15	Orbicella faveolata	240
6213014	4019	IRMA_069	2017-10-16	Orbicella annularis	225
6238991	4019	IRMA_069	2017-10-16	Orbicella faveolata	350
6335441	4019	IRMA_069	2017-10-16	Orbicella faveolata	375
6212592	4019	IRMA_099	2017-10-17	Orbicella faveolata	300
6264889	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

# Percent Cover

Table 13: Flagged Values - High Indicator Quantile: 42

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
1445439	295	252	2009-08-11	Scleractinia	44
1192748	295	252	2010-06-22	Scleractinia	44
1932422	295	252	2011-05-17	Scleractinia	47
1467378	295	252	2012-07-16	Scleractinia	44
1938637	295	252	2013-07-12	Scleractinia	46
1398783	295	252	2014-08-12	Scleractinia	44
1935020	295	254	2014-08-12	Scleractinia	44
1561246	295	303	2012-08-20	Octocorallia	44
1589530	295	303	2014-07-14	Octocorallia	48
1448348	295	304	2013-06-24	Octocorallia	44
1598932	295	304	2014-07-14	Octocorallia	53
1212478	295	304	2016-07-16	Octocorallia	45
1540358	295	304	2019-06-19	Octocorallia	44
1675650	295	304	2020-06-12	Octocorallia	43
1145601	295	331	1997-07-08	Scleractinia	43
1132164	295	332	1996-07-23	Scleractinia	49
1931696	295	332	2022-09-14	Octocorallia	43
1350914	295	334	1996-07-23	Octocorallia	44
1350832	295	334	1998-07-07	Octocorallia	51
1320896	295	334	1999-07-23	Octocorallia	48
1373378	295	334	2001-08-04	Octocorallia	50
1357447	295	334	2002-07-17	Octocorallia	47
1500433	295	334	2003-05-02	Octocorallia	45
1425729	295	334	2004-06-14	Octocorallia	52
1560576	295	334	2005-06-18	Octocorallia	48
1934970	295	334	2008-06-21	Octocorallia	50
1932516	295	334	2009-07-11	Octocorallia	49
1393150	295	344	2004-06-01	Octocorallia	43
1932509	295	344	2008-05-23	Octocorallia	43
1369953	295	351	1996-08-20	Octocorallia	50
1365516	295	353	2002-06-28	Octocorallia	49
1380221	295	383	2002-08-11	Octocorallia	43
1344179	295	402	1996-09-11	Scleractinia	45
1541056	295	403	1997-01-01	Scleractinia	43
1354104	295	431	2021-10-09	Scleractinia	49
1434742	295	431	2021-10-09	Acropora prolifera	48
1931844	295	514	2010-07-08	Octocorallia	46
1466737	295	851	2007-07-18	Octocorallia	47
1332602	295	851	2008-08-05	Octocorallia	44
1323101	295	851	2010-06-30	Octocorallia	45
1322938	295	902	2004-06-11	Scleractinia	45
1336106	295	902	2004-06-11	Acropora cervicornis	45
1888716	295	904	2005-06-30	Scleractinia	43
272167	899	D10	2003-09-15	Scleractinia	55
13683	899	H18	2003-09-15	Psenes cyanophrys	44
20434	899	N14	2003-09-15	Psenes cyanophrys	55
17333	899	P01	2003-09-15	Scleractinia	45
17740	899	P06	2003-09-15	Psenes cyanophrys	80
6532365	3022	1004-1081885-3022A	2018-09-11	Other fleshy macroalgae	43

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
6417676	3022	1008-1138030-3022A	2018-08-13	Bare substrate	44
6544768	3022	1014-1816677-3022A	2018-11-08	Other fleshy macroalgae	55
6533499	3022	1018-1954838-3022A	2018-09-26	Other fleshy macroalgae	49
6925382	3022	1031-924697-3022A	2018-08-22	Bare substrate	77
6453937	3022	1033-2006888-3022A	2016-11-04	Bare substrate	55
6428952	3022	1052-2003948-3022A	2015-08-16	Other fleshy macroalgae	56
6430028	3022	1052-2003948-3022A	2015-08-16	Other fleshy macroalgae	63
6922492	3022	1055-1959491-3022A	2015-06-05	Bare substrate	53
6466189	3022	1056-1952918-3022A	2016-12-08	Bare substrate	47
6461698	3022	1072-2989031-3022A	2022-10-04	Bare substrate	64
6483339	3022	1074-2630127-3022A	2022-10-04	Bare substrate	78
6463737	3022	1075-2940968-3022A	2022-10-04	Bare substrate	44
6444584	3022	1080-2013725-3022A	2018-11-27	Bare substrate	49
6526918	3022	1116-1889633-3022A	2014-06-27	Bare substrate	67
6911158	3022	1116-1889633-3022A	2014-06-27	Bare substrate	71
6526636	3022	1118-1865641-3022A	2014-07-13	Bare substrate	67
6526637	3022	1118-1865641-3022A	2014-07-13	Bare substrate	73
6490856	3022	1119-1888648-3022A	2014-06-25	Bare substrate	64
6526746	3022	1119-1888648-3022A	2014-06-25	Bare substrate	61
6437580	3022	1120-1890350-3022A	2014-06-25	Bare substrate	50
6523699	3022	1120-1890350-3022A	2014-06-25	Bare substrate	44
6402449	3022	1121-1889339-3022A	2014-06-25	Bare substrate	50
6490871	3022	1136-1866409-3022A	2014-06-27	Bare substrate	46
6526570	3022	1136-1866409-3022A	2014-06-27	Bare substrate	45
6429997	3022	1155-1793406-3022A	2018-08-08	Bare substrate	69
6400997	3022	1164-1869264-3022A	2014-06-27	Bare substrate	51
6402598	3022	1165-1875606-3022A	2014-06-27	Bare substrate	45
6427603	3022	1165-1875606-3022A	2014-06-27	Bare substrate	59
6406377	3022	1168-1873165-3022A	2014-06-27	Bare substrate	50
6526716	3022	1168-1873165-3022A	2014-06-27	Bare substrate	49
6420631	3022	1170-1898683-3022A	2014-06-30	Other fleshy macroalgae	52
6913922	3022	1170-1898683-3022A	2014-06-30	Other fleshy macroalgae	44
6925474	3022	1189-1280081-3022A	2018-10-25	Bare substrate	51
6421316	3022	1197-1895745-3022A	2014-06-29	Bare substrate	47
6544758	3022	1198-1820412-3022A	2018-08-08	Bare substrate	51
6424064	3022	1202-1887667-3022A	2014-06-24	Bare substrate	44
6527057	3022	1202-1887667-3022A	2014-06-24	Bare substrate	50
6437458	3022	1209-1853827-3022A	2014-07-21	Other fleshy macroalgae	61
6524238	3022	1209-1853827-3022A	2014-07-21	Other fleshy macroalgae	60
6437520	3022	1214-1844099-3022A	2014-06-10	Bare substrate	50
6524064	3022	1214-1844099-3022A	2014-06-10	Bare substrate	77
6461723	3022	1215-2345747-3022A	2022-10-03	Bare substrate	43
6494717	3022	1222-1811747-3022A	2014-10-17	Bare substrate	51
6531590	3022	1230-2000266-3022A	2018-10-24	Other fleshy macroalgae	55
6426474	3022	1232-1817902-3022A	2014-10-17	Bare substrate	49
6544408	3022	1234-1447114-3022A	2015-06-20	Bare substrate	46
6910541	3022	1241-1814308-3022A	2014-06-16	Other fleshy macroalgae	44
6408204	3022	1243-1800220-3022A	2014-11-16	Bare substrate	45
6414292	3022	1244-1355870-3022A	2015-06-18	Bare substrate	69
6530812	3022	1244-1355870-3022A	2015-06-18	Bare substrate	45
6921544	3022	1246-1507877-3022A	2014-11-01	Bare substrate	64
6921642	3022	1246-1507877-3022A	2014-11-01	Bare substrate	56

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
6414692	3022	1249-1257380-3022A	2015-06-18	Bare substrate	61
6531604	3022	1249-1257380-3022A	2015-06-18	Bare substrate	71
6466745	3022	1250-1439851-3022A	2016-08-08	Bare substrate	43
6440714	3022	1253-1466195-3022A	2014-11-09	Bare substrate	51
6528673	3022	1253-1466195-3022A	2014-11-09	Bare substrate	44
6532502	3022	1254-1861707-3022A	2018-08-06	Bare substrate	46
6529036	3022	1255-1732055-3022A	2014-09-27	Bare substrate	63
6530562	3022	1255-1732055-3022A	2014-09-27	Bare substrate	64
6424357	3022	1256-1738555-3022A	2014-09-27	Bare substrate	53
6411256	3022	1257-1740776-3022A	2014-09-27	Bare substrate	44
6528652	3022	1257-1740776-3022A	2014-09-27	Bare substrate	46
6491172	3022	1267-1696662-3022A	2014-09-26	Bare substrate	96
6920898	3022	1267-1696662-3022A	2014-09-26	Bare substrate	75
6408270	3022	1270-1764896-3022A	2014-10-19	Bare substrate	49
6434129	3022	1270-1764896-3022A	2014-10-19	Bare substrate	48
6420615	3022	1295-1803720-3022A	2014-06-09	Bare substrate	68
6526730	3022	1306-1759445-3022A	2014-06-15	Bare substrate	44
6543160	3022	1317-1517842-3022A	2014-10-31	Bare substrate	52
6441830	3022	1319-917577-3022A	2018-08-13	Bare substrate	59
6543088	3022	1323-1358763-3022A	2014-11-07	Bare substrate	45
6434314	3022	1327-1248516-3022A	2015-05-08	Bare substrate	54
6420454	3022	1330-919791-3022A	2014-08-07	Bare substrate	43
6402717	3022	1338-1087662-3022A	2014-08-24	Bare substrate	49
6427721	3022	1344-1138129-3022A	2015-05-09	Bare substrate	49
6426533	3022	1357-980569-3022A	2014-08-25	Bare substrate	52
6527073	3022	1357-980569-3022A	2014-08-25	Bare substrate	46
6924955	3022	1359-1997368-3022A	2018-10-25	Other fleshy macroalgae	49
6414644	3022	1361-1060253-3022A	2015-06-21	Other fleshy macroalgae	49
6402678	3022	1363-895664-3022A	2014-08-11	Bare substrate	46
6422985	3022	1363-895664-3022A	2014-08-11	Bare substrate	50
6417674	3022	1375-965172-3022A	2018-08-13	Bare substrate	45
6569097	3022	1376-1277090-3022A	2016-07-20	Bare substrate	49
6430024	3022	1380-1107320-3022A	2015-06-25	Bare substrate	51
6484090	3022	1385-3778051-3022A	2022-08-25	Bare substrate	63
6527225	3022	1397-864382-3022A	2014-08-05	Bare substrate	58
6569436	3022	1398-1127038-3022A	2016-07-22	Bare substrate	66
6433587	3022	1413-1129851-3022A	2015-05-06	Bare substrate	48
6471626	3022	1430-481149-3022A	2022-09-16	Other fleshy macroalgae	53
6437656	3022	1432-998586-3022A	2014-08-15	Bare substrate	65
6402765	3022	1435-962541-3022A	2014-08-13	Bare substrate	43
6479298	3022	1446-1060252-3022A	2016-07-13	Bare substrate	66
6437463	3022	1458-864372-3022A	2014-08-05	Bare substrate	45
6472349	3022	1491-3949684-3022A	2022-08-02	Bare substrate	64
6545324	3022	1517-1955566-3022A	2018-09-26	Other fleshy macroalgae	62
6441479	3022	1530-1988531-3022A	2015-08-17	Other fleshy macroalgae	48
6531498	3022	1568-1961582-3022A	2015-08-20	Bare substrate	50
6402646	3022	1571-1893655-3022A	2014-07-22	Bare substrate	67
6913941	3022	1571-1893655-3022A	2014-07-22	Bare substrate	52
6490879	3022	1577-1866713-3022A	2014-07-13	Bare substrate	52
6433374	3022	1579-1834525-3022A	2014-09-13	Bare substrate	50
6388155	3022	1589-1902709-3022A	2014-06-30	Bare substrate	43
6490784	3022	1589-1902709-3022A	2014-06-30	Bare substrate	52

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
6402521	3022	1599-1916931-3022A	2014-07-22	Bare substrate	45
6420581	3022	1599-1916931-3022A	2014-07-22	Bare substrate	44
6429914	3022	1605-942215-3022A	2018-09-12	Bare substrate	46
6420530	3022	1623-1887327-3022A	2014-06-24	Bare substrate	53
6523694	3022	1630-1843372-3022A	2014-06-10	Other fleshy macroalgae	60
6913799	3022	1630-1843372-3022A	2014-06-10	Bare substrate	50
6920847	3022	1649-1503630-3022A	2014-11-01	Bare substrate	46
6529038	3022	1650-1619223-3022A	2014-09-28	Bare substrate	60
6543067	3022	1650-1619223-3022A	2014-09-28	Bare substrate	53
6531598	3022	1658-1231828-3022A	2015-06-19	Bare substrate	45
6543180	3022	1661-1435196-3022A	2014-11-10	Bare substrate	52
6528744	3022	1662-1555689-3022A	2014-09-28	Bare substrate	57
6434149	3022	1663-1811404-3022A	2015-04-17	Bare substrate	47
6496091	3022	1663-1811404-3022A	2015-04-17	Bare substrate	54
6420461	3022	1681-1762175-3022A	2014-06-15	Bare substrate	62
6415336	3022	1709-1076753-3022A	2015-06-25	Bare substrate	52
6428923	3022	1709-1076753-3022A	2015-06-25	Bare substrate	48
6423007	3022	1714-985702-3022A	2014-08-25	Bare substrate	51
6433371	3022	1714-985702-3022A	2014-08-25	Bare substrate	45
6410345	3022	1721-1009143-3022A	2015-05-08	Bare substrate	66
6543807	3022	1725-990917-3022A	2015-05-07	Bare substrate	78
6921748	3022	1725-990917-3022A	2015-05-07	Bare substrate	81
6427679	3022	1741-1127030-3022A	2015-05-06	Other fleshy macroalgae	45
6543095	3022	1741-1127030-3022A	2015-05-06	Other fleshy macroalgae	52
6437634	3022	1758-939852-3022A	2014-08-13	Other fleshy macroalgae	48
6527069	3022	1758-939852-3022A	2014-08-13	Other fleshy macroalgae	54
6924705	3022	2002-1457610-3022A	2018-08-22	Other fleshy macroalgae	53
6531219	3022	2003-1359710-3022A	2018-08-22	Other fleshy macroalgae	67
6570073	3022	2006-912398-3022A	2016-05-21	Bare substrate	57
6447944	3022	2014-1440873-3022A	2018-08-22	Bare substrate	53
6531983	3022	2026-1424072-3022A	2018-07-19	Other fleshy macroalgae	43
6445216	3022	2036-866581-3022A	2014-07-29	Bare substrate	54
6928853	3022	2057-269812-3022A	2021-08-21	Bare substrate	77
6555108	3022	2058-268556-3022A	2021-08-21	Bare substrate	52
6928947	3022	2061-599835-3022A	2021-08-23	Other fleshy macroalgae	76
6458413	3022	2064-574314-3022A	2021-08-23	Other fleshy macroalgae	57
6593856	3022	2064-599094-3022A	2022-09-08	Other fleshy macroalgae	53
6563065	3022	2092-578701-3022A	2021-08-23	Other fleshy macroalgae	71
6928520	3022	2112-1628075-3022A	2016-05-12	Bare substrate	96
6553418	3022	2117-1623178-3022A	2014-06-02	Bare substrate	63
6470168	3022	2122-1639036-3022A	2014-06-02	Bare substrate	47
6561436	3022	2127-1224420-3022A	2014-07-21	Bare substrate	52
6456748	3022	2153-635016-3022A	2022-09-08	Bare substrate	47
6562093	3022	2156-1611462-3022A	2016-05-12	Bare substrate	46
6562959	3022	2164-634313-3022A	2021-08-22	Bare substrate	66
6569920	3022	2178-1403979-3022A	2016-06-08	Bare substrate	45
6429015	3022	2239-1552551-3022A	2018-08-24	Bare substrate	45
6441557	3022	2245-1560107-3022A	2018-08-24	Bare substrate	67
6452261	3022	2262-1462510-3022A	2016-05-17	Bare substrate	81
6924828	3022	2264-1371326-3022A	2018-08-27	Bare substrate	70
6927450	3022	2273-1421825-3022A	2014-06-09	Bare substrate	58
6563145	3022	2279-537016-3022A	2021-08-24	Other fleshy macroalgae	60



RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
6455493	3022	2281-652668-3022A	2021-08-24	Other fleshy macroalgae	52
6461739	3022	2282-1403906-3022A	2014-06-06	Bare substrate	53
6569493	3022	2305-1582772-3022A	2016-05-13	Bare substrate	82
6443258	3022	2312-1433911-3022A	2014-07-20	Bare substrate	68
6568444	3022	2320-1467286-3022A	2014-07-27	Bare substrate	46
6928525	3022	2333-1500110-3022A	2016-05-14	Bare substrate	45
6554280	3022	2341-1376721-3022A	2014-06-04	Other fleshy macroalgae	57
6560972	3022	2355-1433693-3022A	2014-06-04	Bare substrate	75
6453999	3022	2358-1567545-3022A	2016-05-13	Bare substrate	62
6928391	3022	2362-1593881-3022A	2016-05-13	Bare substrate	53
6471388	3022	2364-470369-3022A	2022-09-16	Other fleshy macroalgae	53
6555513	3022	2378-530789-3022A	2022-09-16	Other fleshy macroalgae	60
6463288	3022	2391-1546635-3022A	2014-06-05	Bare substrate	53
6483627	3022	2402-549267-3022A	2022-09-08	Bare substrate	51
6481824	3022	2406-454760-3022A	2021-08-23	Other calcareous macroalgae	44
6465895	3022	2408-468523-3022A	2021-08-23	Other fleshy macroalgae	64
6481585	3022	2429-380877-3022A	2021-08-21	Bare substrate	90
6553653	3022	2435-1559937-3022A	2014-06-07	Bare substrate	61
6481929	3022	2462-611053-3022A	2021-08-23	Other fleshy macroalgae	77
6570210	3022	2480-612454-3022A	2021-08-23	Other fleshy macroalgae	46
6468461	3022	2487-572754-3022A	2021-08-23	Other fleshy macroalgae	65
6562479	3022	2501-939540-3022A	2016-05-21	Bare substrate	74
6928882	3022	2561-635015-3022A	2021-08-22	Bare substrate	53
6531236	3022	2606-1571334-3022A	2018-08-23	Other fleshy macroalgae	57
6554565	3022	2611-1510832-3022A	2016-05-18	Other fleshy macroalgae	59
6929514	3022	2636-1286919-3022A	2016-06-09	Bare substrate	48
6927427	3022	2715-1550432-3022A	2014-06-05	Bare substrate	48
6461737	3022	2719-1577012-3022A	2014-06-05	Bare substrate	52
6484973	3022	3002-691075-3022A	2022-08-12	Bare substrate	88
6485093	3022	3005-687141-3022A	2022-09-16	Bare substrate	64
6474311	3022	3006-524452-3022A	2022-08-10	Other fleshy macroalgae	62
6467463	3022	3007-469352-3022A	2022-08-11	Other fleshy macroalgae	69
6452596	3022	3008-121845-3022A	2018-11-01	Bare substrate	48
6607173	3022	3008-537568-3022A	2022-08-10	Other fleshy macroalgae	66
6415494	3022	3009-126121-3022A	2018-10-30	Bare substrate	55
6467755	3022	3010-458230-3022A	2022-09-16	Other fleshy macroalgae	78
6474312	3022	3012-477231-3022A	2022-08-11	Other fleshy macroalgae	88
6564511	3022	3013-525109-3022A	2022-08-10	Other fleshy macroalgae	94
6545372	3022	3016-169403-3022A	2018-10-31	Bare substrate	46
6456096	3022	3016-447010-3022A	2020-09-30	Bare substrate	66
6556411	3022	3016-653037-3022A	2022-08-12	Other fleshy macroalgae	52
6930049	3022	3019-422144-3022A	2022-08-09	Other fleshy macroalgae	74
6484515	3022	3023-519195-3022A	2022-08-09	Other fleshy macroalgae	84
6432843	3022	3024-133979-3022A	2018-10-30	Bare substrate	63
6432932	3022	3025-101517-3022A	2018-11-01	Other fleshy macroalgae	44
6926136	3022	3025-101517-3022A	2018-11-01	Bare substrate	46
6606803	3022	3026-464084-3022A	2022-08-11	Other fleshy macroalgae	88
6467491	3022	3028-516594-3022A	2022-08-10	Other fleshy macroalgae	70
6545341	3022	3033-96239-3022A	2018-10-30	Bare substrate	74
6482155	3022	3038-456201-3022A	2020-09-30	Bare substrate	49
6460848	3022	3084-1617846-3022A	2020-10-12	Bare substrate	59
6929872	3022	3129-2064560-3022A	2022-06-21	Bare substrate	92

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
6442733	3022	3134-395322-3022A	2014-10-16	Bare substrate	52
6548437	3022	3134-395322-3022A	2014-10-16	Bare substrate	46
6473870	3022	3137-1383686-3022A	2022-06-13	Other fleshy macroalgae	54
6484397	3022	3141-1576520-3022A	2022-06-24	Other fleshy macroalgae	49
6556847	3022	3143-1855940-3022A	2022-08-16	Other fleshy macroalgae	60
6484345	3022	3154-1280049-3022A	2022-06-27	Bare substrate	59
6564387	3022	3157-723185-3022A	2022-08-11	Other fleshy macroalgae	49
6925481	3022	3166-157572-3022A	2018-10-29	Other fleshy macroalgae	45
6472650	3022	3174-2029158-3022A	2020-11-16	Bare substrate	43
6554265	3022	3175-295645-3022A	2016-09-30	Bare substrate	58
6555313	3022	3178-1887425-3022A	2020-10-30	Bare substrate	71
6563687	3022	3184-1416474-3022A	2020-09-17	Bare substrate	43
6479966	3022	3185-229413-3022A	2016-09-15	Bare substrate	54
6468649	3022	3192-740241-3022A	2020-09-30	Bare substrate	98
6480221	3022	3202-228431-3022A	2016-09-15	Bare substrate	51
6466293	3022	3203-248103-3022A	2016-10-21	Porifera spp.	43
6929300	3022	3206-688416-3022A	2020-09-28	Bare substrate	56
6534406	3022	3210-431404-3022A	2018-09-06	Bare substrate	79
6556455	3022	3211-816360-3022A	2022-09-15	Bare substrate	66
6466452	3022	3214-71276-3022A	2016-09-03	Bare substrate	48
6564895	3022	3214-931146-3022A	2022-09-16	Bare substrate	58
6452869	3022	3217-73954-3022A	2016-09-03	Other fleshy macroalgae	43
6466957	3022	3222-83475-3022A	2016-09-04	Other fleshy macroalgae	84
6466363	3022	3224-73961-3022A	2016-09-03	Other fleshy macroalgae	43
6562148	3022	3224-73961-3022A	2016-09-03	Bare substrate	53
6466202	3022	3226-91339-3022A	2016-09-04	Other fleshy macroalgae	48
6554607	3022	3229-101157-3022A	2016-09-04	Bare substrate	43
6928621	3022	3230-101493-3022A	2016-09-04	Other fleshy macroalgae	49
6466454	3022	3231-104112-3022A	2016-09-04	Other fleshy macroalgae	59
6452871	3022	3240-119206-3022A	2016-09-12	Bare substrate	81
6569257	3022	3250-163174-3022A	2016-09-14	Other fleshy macroalgae	61
6483806	3022	3253-664831-3022A	2020-09-28	Bare substrate	50
6568944	3022	3261-153330-3022A	2016-09-12	Other fleshy macroalgae	48
6467744	3022	3261-782252-3022A	2022-09-15	Bare substrate	69
6564357	3022	3263-679258-3022A	2022-08-09	Bare substrate	45
6562423	3022	3270-30873-3022A	2016-11-16	Bare substrate	58
6564512	3022	3285-532316-3022A	2022-08-10	Other fleshy macroalgae	91
6455888	3022	3285-71276-3022A	2016-09-03	Bare substrate	55
6608978	3022	3288-2076339-3022A	2022-08-08	Bare substrate	50
6929298	3022	3309-833414-3022A	2020-09-27	Bare substrate	74
6555535	3022	3312-537587-3022A	2020-09-28	Other fleshy macroalgae	52
6458550	3022	3321-532315-3022A	2020-09-28	Bare substrate	82
6555276	3022	3327-900316-3022A	2020-09-27	Bare substrate	87
6928325	3022	3623-106099-3022A	2016-09-12	Other fleshy macroalgae	66
6929837	3022	8068-4141418-3022A	2022-09-01	Bare substrate	56
6594380	3022	8069-3565269-3022A	2022-08-15	Bare substrate	72
6483743	3022	8070-3551410-3022A	2022-08-15	Bare substrate	77
6929010	3022	8124-4104098-3022A	2021-09-21	Bare substrate	63
6555802	3022	9020-3452885-3022A	2022-09-08	Orbicella annularis	43
6969851	3024	19	2000-09-25	Sabellariidae	50
6767039	3024	19	2001-06-14	Sabellariidae	75
6767040	3024	19	2001-06-14	Sabellariidae	70

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
6909716	3024	19	2001-06-14	Sabellariidae	50
6906379	3024	19	2001-07-12	Sabellariidae	69
6859723	3024	40	2000-08-10	Sabellariidae	60
6909738	3024	40	2000-08-10	Sabellariidae	75
6909741	3024	40	2000-08-10	Sabellariidae	50
6757061	3024	50	2000-06-16	Sabellariidae	50
6849859	3024	50	2000-06-16	Sabellariidae	80
6747290	3024	59	2000-08-11	Sabellariidae	63
6757026	3024	59	2000-08-11	Sabellariidae	90
6767331	3024	59	2000-08-11	Sabellariidae	75
6858719	3024	59	2000-08-11	Sabellariidae	60
6969764	3024	6	2000-06-15	Sabellariidae	72

**Programs containing flagged data:**

*295* - Florida Keys and Southeast Florida Coral Reef Evaluation and Monitoring Project (CREMP/SECREMP)

*899* - USGS Coral Reef Ecosystem Studies (CREST) Project

*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

## QAQC Quantile Flag Check

- `n_high` is the amount of data above the quantile value.
- `n_high_flagged` is the amount of data above the quantile value AND containing proper SEACAR-QAQCFlag of 17Q (ResultValue above quantile value).
- `n_low` is the amount of data below the quantile value.
- `n_low_flagged` is the amount of data below the quantile value AND containing proper SEACAR-QAQCFlag of 16Q (ResultValue below quantile value).
- If everything is in order, these values should be the same. Any discrepancies therein should be fastidiously noted.

ParameterName	n high	n high flagged	n low	n low flagged
Colony Density	43	38	0	0
Count	34	34	0	0
Colony Diameter	76	76	0	0
Colony Height	193	193	190	0
Colony Length	15	15	0	0
Colony Width	177	177	133	133
Percent Cover	321	321	0	0

Entries where ResultValue is above or below quantile, but expected SEACAR\_QAQCFlagCode is not being applied

Table 14: SEACAR QAQC Flag Code discrepancies

RowID	ProgramID	ParameterName	ResultValue	SEACAR_QAQCFlagCode	q_subset
1064160	136	Colony Height	0.5	19Q	low
749	169	Colony Height	0.5	19Q	low
776	169	Colony Height	0.5	19Q	low
969	169	Colony Height	0.5	19Q	low
1771	169	Colony Height	0.5	19Q	low
2184	169	Colony Height	0.5	19Q	low
2949	169	Colony Height	0.5	19Q	low
3667	169	Colony Height	0.5	19Q	low
4277	169	Colony Height	0.5	19Q	low
4455	169	Colony Height	0.0	19Q	low
4619	169	Colony Height	0.3	19Q	low
4646	169	Colony Height	0.5	19Q	low
4689	169	Colony Height	0.5	19Q	low
4778	169	Colony Height	0.5	19Q	low
5335	169	Colony Height	0.2	19Q	low
6195	169	Colony Height	0.3	19Q	low
6220	169	Colony Height	0.8	19Q	low
6348	169	Colony Height	0.3	19Q	low
6462	169	Colony Height	0.7	19Q	low
6482	169	Colony Height	0.0	19Q	low

Table 14: SEACAR QAQC Flag Code discrepancies (*continued*)

RowID	ProgramID	ParameterName	ResultValue	SEACAR_QAQCFlagCode	q_subset
6508	169	Colony Height	0.5	19Q	low
6734	169	Colony Height	0.6	19Q	low
6801	169	Colony Height	0.5	19Q	low
7626	169	Colony Height	0.5	19Q	low
7915	169	Colony Height	0.5	19Q	low
7963	169	Colony Height	0.5	19Q	low
8078	169	Colony Height	0.3	19Q	low
8080	169	Colony Height	0.2	19Q	low
8158	169	Colony Height	0.5	19Q	low
8186	169	Colony Height	0.5	19Q	low
8307	169	Colony Height	0.3	19Q	low
8510	169	Colony Height	0.5	19Q	low
8971	169	Colony Height	0.5	19Q	low
9003	169	Colony Height	0.2	19Q	low
9038	169	Colony Height	0.5	19Q	low
9071	169	Colony Height	0.6	19Q	low
9179	169	Colony Height	0.5	19Q	low
9233	169	Colony Height	0.5	19Q	low
9467	169	Colony Height	0.5	19Q	low
9741	169	Colony Height	0.3	19Q	low
9753	169	Colony Height	0.2	19Q	low
9988	169	Colony Height	0.5	19Q	low
10403	169	Colony Height	0.2	19Q	low
11142	169	Colony Height	0.5	19Q	low
11171	169	Colony Height	0.5	19Q	low
11646	169	Colony Height	0.5	19Q	low
11864	169	Colony Height	0.2	19Q	low
11907	169	Colony Height	0.3	19Q	low
12073	169	Colony Height	0.5	19Q	low
12138	169	Colony Height	0.5	19Q	low
12207	169	Colony Height	0.1	19Q	low
12290	169	Colony Height	0.5	19Q	low
12346	169	Colony Height	0.4	19Q	low
12745	169	Colony Height	0.5	19Q	low
12826	169	Colony Height	0.3	19Q	low
12842	169	Colony Height	0.5	19Q	low
13060	169	Colony Height	0.5	19Q	low
13150	169	Colony Height	0.2	19Q	low
13151	169	Colony Height	0.3	19Q	low
13411	169	Colony Height	0.5	19Q	low
13886	169	Colony Height	0.5	19Q	low
13888	169	Colony Height	0.1	19Q	low
14811	169	Colony Height	0.5	19Q	low
14848	169	Colony Height	0.2	19Q	low
15187	169	Colony Height	0.5	19Q	low
15895	169	Colony Height	0.5	19Q	low
16031	169	Colony Height	0.5	19Q	low
16428	169	Colony Height	0.5	19Q	low
16933	169	Colony Height	0.2	19Q	low
16942	169	Colony Height	0.5	19Q	low
17185	169	Colony Height	0.4	19Q	low
17449	169	Colony Height	0.2	19Q	low
17656	169	Colony Height	0.5	19Q	low
18031	169	Colony Height	0.2	19Q	low
18336	169	Colony Height	0.5	19Q	low

Table 14: SEACAR QAQC Flag Code discrepancies (*continued*)

RowID	ProgramID	ParameterName	ResultValue	SEACAR_QAQCFlagCode	q_subset
18396	169	Colony Height	0.5	19Q	low
18438	169	Colony Height	0.7	19Q	low
18496	169	Colony Height	0.5	19Q	low
19404	169	Colony Height	0.5	19Q	low
20021	169	Colony Height	0.5	19Q	low
21017	169	Colony Height	0.5	19Q	low
21053	169	Colony Height	0.5	19Q	low
21705	169	Colony Height	0.1	19Q	low
21717	169	Colony Height	0.3	19Q	low
21823	169	Colony Height	0.5	19Q	low
22314	169	Colony Height	0.5	19Q	low
22810	169	Colony Height	0.5	19Q	low
23258	169	Colony Height	0.1	19Q	low
23388	169	Colony Height	0.5	19Q	low
24021	169	Colony Height	0.5	19Q	low
24023	169	Colony Height	0.5	19Q	low
24104	169	Colony Height	0.5	19Q	low
24470	169	Colony Height	0.5	19Q	low
25119	169	Colony Height	0.5	19Q	low
25129	169	Colony Height	0.5	19Q	low
25668	169	Colony Height	0.5	19Q	low
26110	169	Colony Height	0.0	19Q	low
27430	169	Colony Height	0.5	19Q	low
27661	169	Colony Height	0.0	19Q	low
28724	169	Colony Height	0.5	19Q	low
29311	169	Colony Height	0.5	19Q	low
29422	169	Colony Height	0.8	19Q	low
29432	169	Colony Height	0.0	19Q	low
29662	169	Colony Height	0.0	19Q	low
30397	169	Colony Height	0.0	19Q	low
30551	169	Colony Height	0.5	19Q	low
30846	169	Colony Height	0.5	19Q	low
31575	169	Colony Height	0.5	19Q	low
31944	169	Colony Height	0.0	19Q	low
32397	169	Colony Height	0.0	19Q	low
32662	169	Colony Height	0.5	19Q	low
33045	169	Colony Height	0.5	19Q	low
34448	169	Colony Height	0.5	19Q	low
35127	169	Colony Height	0.5	19Q	low
36020	169	Colony Height	0.5	19Q	low
36813	169	Colony Height	0.5	19Q	low
37034	169	Colony Height	0.5	19Q	low
39359	169	Colony Height	0.5	19Q	low
42768	169	Colony Height	0.5	19Q	low
45544	169	Colony Height	0.0	19Q	low
46641	169	Colony Height	0.5	19Q	low
49254	169	Colony Height	0.5	19Q	low
53962	169	Colony Height	0.0	19Q	low
58332	169	Colony Height	0.5	19Q	low
59125	169	Colony Height	0.0	19Q	low
60325	169	Colony Height	0.0	19Q	low
60557	169	Colony Height	0.2	19Q	low
60952	169	Colony Height	0.0	19Q	low
64268	169	Colony Height	0.5	19Q	low
65196	169	Colony Height	0.5	19Q	low

Table 14: SEACAR QAQC Flag Code discrepancies (*continued*)

RowID	ProgramID	ParameterName	ResultValue	SEACAR_QAQCFlagCode	q_subset
65362	169	Colony Height	0.5	19Q	low
70014	169	Colony Height	0.5	19Q	low
86639	169	Colony Height	0.0	19Q	low
105197	169	Colony Height	0.5	19Q	low
111494	169	Colony Height	0.5	19Q	low
120382	169	Colony Height	0.5	19Q	low
228317	169	Colony Height	0.5	19Q	low
228318	169	Colony Height	0.1	19Q	low
246382	169	Colony Height	0.2	19Q	low
246616	169	Colony Height	0.9	19Q	low
247223	169	Colony Height	0.8	19Q	low
248428	169	Colony Height	0.3	19Q	low
253684	169	Colony Height	0.5	19Q	low
273568	169	Colony Height	0.6	19Q	low
273968	169	Colony Height	0.6	19Q	low
274244	169	Colony Height	0.4	19Q	low
274866	169	Colony Height	0.1	19Q	low
276771	169	Colony Height	0.5	19Q	low
278124	169	Colony Height	0.3	19Q	low
280082	169	Colony Height	0.2	19Q	low
286672	169	Colony Height	0.8	19Q	low
430085	169	Colony Height	0.3	19Q	low
430088	169	Colony Height	0.7	19Q	low
6610073	3022	Colony Height	0.5	19Q	low
6628168	3022	Colony Height	0.0	19Q	low
6628349	3022	Colony Height	0.5	19Q	low
6628685	3022	Colony Height	0.3	19Q	low
6629479	3022	Colony Height	0.5	19Q	low
6630363	3022	Colony Height	0.5	19Q	low
6640581	3022	Colony Height	0.5	19Q	low
6640792	3022	Colony Height	0.6	19Q	low
6653610	3022	Colony Height	0.5	19Q	low
6669173	3022	Colony Height	0.3	19Q	low
6672829	3022	Colony Height	0.3	19Q	low
6677023	3022	Colony Height	0.0	19Q	low
6686941	3022	Colony Height	0.5	19Q	low
6697110	3022	Colony Height	0.0	19Q	low
6699699	3022	Colony Height	0.0	19Q	low
6710952	3022	Colony Height	0.5	19Q	low
6711013	3022	Colony Height	0.5	19Q	low
6712230	3022	Colony Height	0.5	19Q	low
6725090	3022	Colony Height	0.5	19Q	low
6726799	3022	Colony Height	0.3	19Q	low
6740704	3022	Colony Height	0.5	19Q	low
6740757	3022	Colony Height	0.5	19Q	low
6744807	3022	Colony Height	0.5	19Q	low
6757320	3022	Colony Height	0.5	19Q	low
6769032	3022	Colony Height	0.5	19Q	low
6845427	3022	Colony Height	0.5	19Q	low
6845521	3022	Colony Height	0.5	19Q	low
6845603	3022	Colony Height	0.5	19Q	low
6854426	3022	Colony Height	0.5	19Q	low
6894020	3022	Colony Height	0.5	19Q	low
6952202	3022	Colony Height	0.5	19Q	low
6952287	3022	Colony Height	0.5	19Q	low

Table 14: SEACAR QAQC Flag Code discrepancies (*continued*)

RowID	ProgramID	ParameterName	ResultValue	SEACAR_QAQCFlagCode	q_subset
6953455	3022	Colony Height	0.5	19Q	low
6954668	3022	Colony Height	0.5	19Q	low
6957938	3022	Colony Height	0.5	19Q	low
6958238	3022	Colony Height	0.5	19Q	low
6142354	4019	Colony Density	40.0	19Q	high
6290980	4019	Colony Density	39.0	19Q	high
6291146	4019	Colony Density	38.0	19Q	high
6589854	4019	Colony Density	39.0	19Q	high
6365508	5040	Colony Height	0.0	19Q	low
6070191	5042	Colony Density	38.0	19Q	high

- 19Q - Low threshold defined only - not below