Oyster Reef Indicator Quantile Report
SEACAR Analysis

Last compiled on 21 September, 2023

Contents

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 Parameters:

- Density
- Number of Oysters Counted - Dead
- Number of Oysters Counted - Live
- Number of Oysters Counted - Total
- Percent Live
- Reef Height
- Shell Height

The data file used for the analysis: **All_Oyster_Parameters-2023-Sep-05.txt**

Table 1: Indicator Quantile Overview

parameter	q_low	q_high	mean	n_tot	n_q_low	n_q_high	%_flagged
Density	0.00	7387.01	455.11	5185	0	6	0.12
Number of Oysters Counted - Dead/0.06m2	0.00	99.89	46.43	1112	0	2	0.18
Number of Oysters Counted - Dead/0.1m2	0.00	67.76	6.61	161	0	1	0.62
Number of Oysters Counted - Dead/0.25m2	0.00	168.16	5.87	2985	0	3	0.10
Number of Oysters Counted - Dead/1m2	0.00	171.62	9.37	153	0	1	0.65
Number of Oysters Counted - Dead/NAm2	0.00	27.85	5.51	51	0	1	1.96
Number of Oysters Counted - Live/0.06m2	0.00	209.61	37.77	1482	0	2	0.13
Number of Oysters Counted - Live/0.1m2	0.00	263.00	21.52	161	0	1	0.62
Number of Oysters Counted - Live/0.25m2	0.00	457.17	30.60	2998	0	3	0.10
Number of Oysters Counted - Live/1m2	0.00	267.60	15.36	201	0	1	0.50
Number of Oysters Counted - Live/NAm2	0.00	101.12	29.76	439	0	1	0.23
Number of Oysters Counted - Total/0.06m2	0.00	532.47	82.40	1897	0	2	0.11
Number of Oysters Counted - Total/0.1m2	0.00	288.20	28.14	161	0	1	0.62
Number of Oysters Counted - Total/0.25m2	0.00	584.29	36.92	2977	0	3	0.10
Number of Oysters Counted - Total/1m2	0.00	305.16	56.65	79	0	1	1.27
Number of Oysters Counted - Total/NAm2	0.00	104.50	13.92	51	0	1	1.96
Reef Height	-200.00	15685.40	387.58	2074	2	3	0.24
Shell Height/0.06m2	1.90	125.82	36.59	107326	105	108	0.20
Shell Height/0.1m2	4.06	79.94	23.98	1060	2	2	0.38
Shell Height/0.25m2	2.00	105.00	38.68	425728	240	406	0.15
Shell Height/1m2	0.00	118.30	27.06	640	0	1	0.16
Shell Height/NAm2	3.48	151.23	42.46	7450	8	8	0.21

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

Shell Height/0.06m2

Table 2: Flagged Values - Low Indicator Quantile: **1.9**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
885533	4000	BU3	2020-02-14	1.0
887758	4000	BU3	2020-02-14	1.0
887816	4000	BU3	2020-02-14	1.0
888748	4000	BU3	2020-02-14	1.0
811087	4000	GR101	2016-07-08	1.4
811100	4000	GR101	2016-07-08	1.7
812760	4000	GR101	2016-07-08	1.4
814362	4000	GR101	2016-07-08	1.1
814497	4000	GR101	2016-07-08	1.4
814498	4000	GR101	2016-07-08	1.0
814625	4000	GR101	2016-07-08	1.7
814824	4000	GR101	2016-07-08	1.0
760085	4000	GR102	2016-07-27	1.6
760168	4000	GR102	2016-07-27	1.5
760198	4000	GR102	2016-07-27	1.8
761161	4000	GR250	2015-12-10	1.5
766463	4000	GR5A	2016-09-07	1.4
766995	4000	GR5A	2016-09-07	1.8
766996	4000	GR5A	2016-09-07	1.5
767031	4000	GR5A	2016-09-07	1.1
767191	4000	GR5A	2016-09-07	1.7
767535	4000	GR5A	2016-09-07	1.0
767542	4000	GR5A	2016-09-07	0.7
767545	4000	GR5A	2016-09-07	0.7
767575	4000	GR5A	2016-09-07	1.4
767696	4000	GR5A	2016-09-07	1.7
767697	4000	GR5A	2016-09-07	1.8
767747	4000	GR5A	2016-09-07	1.3
767770	4000	GR5A	2016-09-07	1.2
767795	4000	GR5A	2016-09-07	1.5
777555	4000	GR65	2016-09-07	1.4
777580	4000	GR65	2016-09-07	1.5
777598	4000	GR65	2016-09-07	1.6
777600	4000	GR65	2016-09-07	1.7
777621	4000	GR65	2016-09-07	1.2
777637	4000	GR65	2016-09-07	1.7
778225	4000	GR65	2016-09-07	1.3
778257	4000	GR65	2016-09-07	1.8
778676	4000	GR65	2016-09-07	1.7
778805	4000	GR65	2016-09-07	1.4
778854	4000	GR65	2016-09-07	1.4
778898	4000	GR65	2016-09-07	1.4
778932	4000	GR65	2016-09-07	1.3
823895	4000	GR73	2016-09-06	1.6
798243	4000	GR8	2015-01-29	1.7

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
798181	4000	GR8	2018-10-16	1.8
813582	4000	PF415	2016-01-13	1.8
802527	4000	PF727	2016-01-14	1.7
850398	4000	SR24	2016-07-29	1.8
831615	4000	SR41	2016-08-17	1.3
833000	4000	SR41	2016-08-17	1.7
807160	4000	SR5	2015-06-23	1.8
780056	4000	SR70	2016-07-12	1.8
780203	4000	SR70	2016-07-12	1.3
780216	4000	SR70	2016-07-12	1.1
780224	4000	SR70	2016-07-12	0.7
780225	4000	SR70	2016-07-12	1.3
780234	4000	SR70	2016-07-12	1.2
780245	4000	SR70	2016-07-12	1.2
780270	4000	SR70	2016-07-12	1.0
877301	4000	SR71	2016-07-13	1.8
877489	4000	SR71	2016-07-13	0.9
877490	4000	SR71	2016-07-13	1.4
878141	4000	SR71	2016-07-13	1.0
882853	4000	SR71	2016-07-13	1.7
882970	4000	SR71	2016-07-13	1.3
893961	4000	SR71	2016-07-13	1.8
893963	4000	SR71	2016-07-13	1.2
893964	4000	SR71	2016-07-13	1.4
908074	4000	SR8	2016-12-28	1.6
804919	4000	SR86	2016-08-17	1.3
807251	4000	SR86	2016-08-17	1.6
807252	4000	SR86	2016-08-17	1.3
854131	4012	TB_Reference	2017-02-02	0.0
548707	4016	SL1	2021-06-22	0.0
564653	4016	SL1	2021-06-22	0.0
846	5017	MLC20	2015-06-10	1.3
11	5017	MLC21	2015-06-03	1.0
12	5017	MLC21	2015-06-03	1.0
88	5017	MLC21	2015-06-03	1.0
95	5017	MLC21	2015-06-03	1.0
97	5017	MLC21	2015-06-03	1.0
99	5017	MLC21	2015-06-03	1.0
103	5017	MLC21	2015-06-03	1.0
366	5017	MLC21	2015-06-03	1.0
389	5017	MLC21	2015-06-03	1.0
393	5017	MLC21	2015-06-03	1.0
758	5017	MLC21	2015-06-03	1.0
858	5017	MLC21	2015-06-03	1.0
861	5017	MLC21	2015-06-03	1.0
888	5017	MLC21	2015-06-03	1.0
892	5017	MLC21	2015-06-03	1.0
627996	5017	MLC21	2015-06-03	1.0
685118	5017	MLC21	2015-06-03	1.0
748103	5017	MLC21	2015-06-03	1.0
755687	5017	MLC21	2015-06-03	1.0
1701	5017	MLC25	2015-06-04	1.5

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
3654	5017	MLC5	2015-06-10	1.4
607629	5017	MLC5	2015-06-10	1.6
607962	5017	MLC5	2015-06-10	1.7
619145	5017	MLC5	2015-06-10	1.6
1304	5017	MLCBU12	2015-06-03	1.0
752957	5017	MLCBU12	2015-06-03	1.0
754604	5017	MLCBU12	2015-06-03	1.5
712692	5017	NCB3	2015-07-17	0.0

Programs containing flagged data:

4000 - Guana Tolomato Matanzas NERR Oyster monitoring

4012 - SCCF Oyster Restoration Monitoring

4016 - Indian River Lagoon Oyster, Coastal Wetlands and Mangroves (MarineGEO site)

5017 - Northern Coastal Basins and Mosquito Lagoon Oyster Condition Assessment

Reef Height

Table 3: Flagged Values - Low Indicator Quantile: **-200**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
3287	5017	ML22	2016-06-01	-595
3324	5017	MLC20	2016-06-01	-460

Programs containing flagged data:

5017 - Northern Coastal Basins and Mosquito Lagoon Oyster Condition Assessment

Shell Height/0.25m2

Table 4: Flagged Values - Low Indicator Quantile: **2**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
895711	4012	TB_Restore	2016-02-23	0.50
895712	4012	TB_Restore	2016-02-23	0.53
895713	4012	TB_Restore	2016-02-23	0.77
895992	4012	TB_Restore	2016-02-23	0.33
895993	4012	TB_Restore	2016-02-23	0.50
895994	4012	TB_Restore	2016-02-23	0.88
895995	4012	TB_Restore	2016-02-23	1.55
897010	4012	TB_Restore	2016-02-23	0.60
897011	4012	TB_Restore	2016-02-23	0.64
900590	4012	TB_Restore	2016-02-23	0.33
900591	4012	TB_Restore	2016-02-23	0.67
907599	4012	TB_Restore	2016-02-23	0.47
907600	4012	TB_Restore	2016-02-23	0.86
907601	4012	TB_Restore	2016-02-23	1.57
910888	4012	TB_Restore	2016-02-23	0.00
911058	4012	TB_Restore	2016-02-23	1.82
911230	4012	TB_Restore	2016-02-23	0.05
911231	4012	TB_Restore	2016-02-23	0.07
911326	4012	TB_Restore	2016-02-23	0.16
911327	4012	TB_Restore	2016-02-23	0.77
911328	4012	TB_Restore	2016-02-23	1.66
911394	4012	TB_Restore	2016-02-23	0.33
911395	4012	TB_Restore	2016-02-23	0.38
911396	4012	TB_Restore	2016-02-23	1.35
911397	4012	TB_Restore	2016-02-23	1.54
911603	4012	TB_Restore	2016-02-23	0.54
911604	4012	TB_Restore	2016-02-23	0.64
848351	4044	NRDA_APA-CP-MP2	2019-12-10	1.00
874183	4044	NRDA_APA-DB-MP2	2021-09-30	1.00
875481	4044	NRDA_APA-DB-MP3	2018-02-13	1.00
783173	4044	NRDA_APA-GP-MP1	2017-12-21	1.00
783185	4044	NRDA_APA-GP-MP1	2017-12-21	1.00
783091	4044	NRDA_APA-GP-MP1	2021-09-21	1.00
783099	4044	NRDA_APA-GP-MP1	2021-09-21	1.00
783161	4044	NRDA_APA-GP-MP1	2021-09-21	1.00
783316	4044	NRDA_APA-GP-MP1	2021-09-21	1.00
783318	4044	NRDA_APA-GP-MP1	2021-09-21	1.00
894514	4044	NRDA_APA-HB-MP1	2017-11-30	1.00
870701	4044	NRDA_APA-HB-MP1	2021-09-22	1.00
876341	4044	NRDA_APA-HB-MP1	2021-09-22	1.00
879176	4044	NRDA_APA-HB-MP1	2021-09-22	1.00
879180	4044	NRDA_APA-HB-MP1	2021-09-22	1.00
881228	4044	NRDA_APA-HB-MP1	2021-09-22	1.00
897858	4044	NRDA_APA-HB-MP1	2021-09-22	1.00
809562	4044	NRDA_APA-HB-MP2	2017-11-30	1.00
873955	4044	NRDA_APA-LG-MP1	2021-09-21	1.00
888767	4044	NRDA_APA-LG-MP1	2021-09-21	1.00
890250	4044	NRDA_APA-LG-MP1	2021-09-21	1.00

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
893036	4044	NRDA_APA-LG-MP1	2021-09-21	1.00
871134	4044	NRDA_APA-LG-MP2	2021-09-21	1.00
909764	4044	NRDA_APA-LH-MP2	2017-06-09	1.00
907608	4044	NRDA_APA-LH-MP2	2021-09-22	1.00
912519	4044	NRDA_APA-LH-MP2	2021-09-22	1.00
841598	4044	NRDA_APA-NBM-MP1	2017-06-09	1.00
842104	4044	NRDA_APA-NBM-MP1	2017-06-09	1.00
842311	4044	NRDA_APA-NBM-MP1	2017-06-09	1.00
838412	4044	NRDA_APA-NBM-MP1	2021-12-02	1.00
790935	4044	NRDA_APA-NBM-MP2	2017-06-09	1.00
790936	4044	NRDA_APA-NBM-MP2	2017-06-09	1.00
871660	4044	NRDA_APA-NS-MP1	2021-09-21	1.00
878561	4044	NRDA_APA-RC1-MP1	2017-07-05	1.00
878751	4044	NRDA_APA-RC1-MP1	2017-07-05	1.00
879345	4044	NRDA_APA-RC1-MP1	2017-07-05	1.00
876832	4044	NRDA_APA-RC1-MP2	2017-07-05	1.00
34930	5007	R-9MB-MP1	2021-04-12	0.00
38398	5007	R-9MB-MP1	2021-04-12	0.00
40519	5007	R-9MB-MP1	2021-04-12	0.00
40529	5007	R-9MB-MP1	2021-04-12	0.00
40547	5007	R-9MB-MP1	2021-04-12	0.00
40549	5007	R-9MB-MP1	2021-04-12	0.00
41478	5007	R-9MB-MP1	2021-04-12	0.00
42266	5007	R-9MB-MP1	2021-04-12	0.00
42918	5007	R-9MB-MP1	2021-04-12	0.00
43093	5007	R-9MB-MP1	2021-04-12	0.00
616260	5007	R-9MB-MP1	2021-04-12	0.00
694982	5007	R-9MB-MP1	2021-04-12	0.00
744827	5007	R-9MB-MP1	2021-04-12	0.00
752298	5007	R-9MB-MP1	2021-04-12	0.00
106466	5007	R-CP-MP1	2019-08-16	1.00
66228	5007	R-CP-MP3	2019-08-13	1.00
654071	5007	R-CP-MP3	2019-08-13	1.00
746653	5007	R-CP-MP3	2019-08-13	1.00
65062	5007	R-CPS-MP1	2019-08-23	1.00
58258	5007	R-CPS-MP1	2021-06-17	1.00
60567	5007	R-CPS-MP1	2021-06-17	1.00
67552	5007	R-CPS-MP1	2021-06-17	1.00
85905	5007	R-CPS-MP1	2021-06-17	1.00
86247	5007	R-CPS-MP1	2021-06-17	1.00
86828	5007	R-CPS-MP1	2021-06-17	1.00
98754	5007	R-CPS-MP1	2021-06-17	1.00
99548	5007	R-CPS-MP1	2021-06-17	1.00
101036	5007	R-CPS-MP1	2021-06-17	1.00
603021	5007	R-CPS-MP1	2021-06-17	1.00
644849	5007	R-CPS-MP1	2021-06-17	1.00
658023	5007	R-CPS-MP1	2021-06-17	1.00
690247	5007	R-CPS-MP1	2021-06-17	1.00
696243	5007	R-CPS-MP1	2021-06-17	1.00
711843	5007	R-CPS-MP1	2021-06-17	1.00
712323	5007	R-CPS-MP1	2021-06-17	1.00
68964	5007	R-CPS-MP2	2021-06-17	1.00

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
71259	5007	R-CPS-MP2	2021-06-17	1.00
72385	5007	R-CPS-MP2	2021-06-17	1.00
78863	5007	R-CPS-MP2	2021-06-17	1.00
85943	5007	R-CPS-MP2	2021-06-17	1.00
58741	5007	R-EH1-MP1	2019-07-31	1.00
51274	5007	R-EH1-MP1	2021-06-24	1.00
55158	5007	R-EH1-MP1	2021-06-24	1.00
57368	5007	R-EH1-MP1	2021-06-24	1.00
57393	5007	R-EH1-MP1	2021-06-24	1.00
59242	5007	R-EH1-MP1	2021-06-24	1.00
67365	5007	R-EH1-MP1	2021-06-24	1.00
73698	5007	R-EH1-MP1	2021-06-24	1.00
75498	5007	R-EH1-MP1	2021-06-24	1.00
84004	5007	R-EH1-MP1	2021-06-24	1.00
85126	5007	R-EH1-MP1	2021-06-24	1.00
101133	5007	R-EH1-MP1	2021-06-24	1.00
107198	5007	R-EH1-MP1	2021-06-24	1.00
685014	5007	R-EH1-MP1	2021-06-24	1.00
748864	5007	R-EH1-MP1	2021-06-24	1.00
28237	5007	R-EH1-MP2	2018-09-13	1.00
67673	5007	R-EH1-MP2	2021-06-24	1.00
87685	5007	R-EH1-MP4	2019-07-30	1.00
62026	5007	R-HB1-MP1	2018-06-26	1.00
59154	5007	R-HB1-MP2	2021-01-13	1.00
59872	5007	R-HB1-MP2	2021-01-13	1.00
65164	5007	R-HB1-MP2	2021-01-13	1.00
111870	5007	R-HB1-MP2	2021-01-13	1.00
665227	5007	R-HB1-MP2	2021-01-13	1.00
41386	5007	R-HB2-MP1	2018-06-26	1.00
43792	5007	R-HB2-MP1	2018-06-26	1.00
56402	5007	R-HB2-MP1	2018-06-26	1.00
58492	5007	R-HB2-MP1	2018-06-26	1.00
75031	5007	R-HB2-MP1	2018-06-26	1.00
108459	5007	R-HB2-MP1	2018-06-26	1.00
44214	5007	R-ME-MP2	2019-08-21	1.00
57127	5007	R-NS2-MP1	2018-06-25	1.00
606316	5007	R-NS2-MP1	2018-06-25	1.00
58159	5007	R-NS2-MP2	2018-06-25	1.00
67036	5007	R-NS2-MP2	2018-06-25	1.00
690656	5007	R-NS2-MP2	2018-06-25	1.00
707985	5007	R-NS2-MP2	2018-06-25	1.00
694753	5007	R-NS2-MP2	2020-12-15	0.00
689112	5007	R-PR-MP1	2019-08-21	1.00
713999	5007	R-PR-MP1	2019-08-21	1.00
55590	5007	R-PR-MP1	2021-06-24	1.00
55929	5007	R-PR-MP1	2021-06-24	1.00
58346	5007	R-PR-MP1	2021-06-24	1.00
67931	5007	R-PR-MP1	2021-06-24	1.00
88826	5007	R-PR-MP1	2021-06-24	1.00
623539	5007	R-PR-MP1	2021-06-24	1.00
713982	5007	R-PR-MP1	2021-06-24	1.00
58408	5007	R-PR-MP2	2021-06-24	1.00

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
75986	5007	R-PR-MP2	2021-06-24	1.00
76632	5007	R-PR-MP2	2021-06-24	1.00
77090	5007	R-PR-MP2	2021-06-24	1.00
96014	5007	R-PR-MP2	2021-06-24	1.00
109128	5007	R-PR-MP2	2021-06-24	1.00
623646	5007	R-PR-MP2	2021-06-24	1.00
74967	5007	R-SB-MP1	2018-09-13	1.00
82494	5007	R-SB-MP1	2018-09-13	1.00
82548	5007	R-SB-MP1	2018-09-13	1.00
86818	5007	R-SB-MP1	2018-09-13	1.00
685195	5007	R-SB-MP1	2018-09-13	1.00
690872	5007	R-SB-MP1	2018-09-13	1.00
695592	5007	R-SB-MP1	2018-09-13	1.00
215779	10002	East Hole	2003-09-30	1.00
215808	10002	East Hole	2003-09-30	1.00
215823	10002	East Hole	2003-09-30	1.00
215824	10002	East Hole	2003-09-30	1.00
216305	10002	East Hole	2003-09-30	1.00
216306	10002	East Hole	2003-09-30	1.00
216324	10002	East Hole	2003-09-30	1.00
216335	10002	East Hole	2003-09-30	1.00
216344	10002	East Hole	2003-09-30	1.00
216346	10002	East Hole	2003-09-30	1.00
216350	10002	East Hole	2003-09-30	1.00
216366	10002	East Hole	2003-09-30	1.00
216532	10002	East Hole	2003-09-30	1.00
216556	10002	East Hole	2003-09-30	1.00
216557	10002	East Hole	2003-09-30	1.00
216562	10002	East Hole	2003-09-30	1.00
216563	10002	East Hole	2003-09-30	1.00
216914	10002	East Hole	2003-09-30	1.00
216924	10002	East Hole	2003-09-30	1.00
216925	10002	East Hole	2003-09-30	1.00
216927	10002	East Hole	2003-09-30	1.00
216946	10002	East Hole	2003-09-30	1.00
216952	10002	East Hole	2003-09-30	1.00
216953	10002	East Hole	2003-09-30	1.00
216984	10002	East Hole	2003-09-30	1.00
216985	10002	East Hole	2003-09-30	1.00
216995	10002	East Hole	2003-09-30	1.00
217008	10002	East Hole	2003-09-30	1.00
217009	10002	East Hole	2003-09-30	1.00
217010	10002	East Hole	2003-09-30	1.00
217326	10002	East Hole	2003-09-30	1.00
217327	10002	East Hole	2003-09-30	1.00
217333	10002	East Hole	2003-09-30	1.00
217334	10002	East Hole	2003-09-30	1.00
217515	10002	East Hole	2003-09-30	1.00
217523	10002	East Hole	2003-09-30	1.00
217524	10002	East Hole	2003-09-30	1.00
217528	10002	East Hole	2003-09-30	1.00
217535	10002	East Hole	2003-09-30	1.00

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
217953	10002	East Hole	2003-09-30	1.00
218052	10002	East Hole	2003-09-30	1.00
218061	10002	East Hole	2003-09-30	1.00
218062	10002	East Hole	2003-09-30	1.00
218066	10002	East Hole	2003-09-30	1.00
218200	10002	East Hole	2003-09-30	1.00
218201	10002	East Hole	2003-09-30	1.00
218213	10002	East Hole	2003-09-30	1.00
218214	10002	East Hole	2003-09-30	1.00
218215	10002	East Hole	2003-09-30	1.00
218216	10002	East Hole	2003-09-30	1.00
218575	10002	East Hole	2003-09-30	1.00
218576	10002	East Hole	2003-09-30	1.00
231522	10002	East Hole	2003-09-30	1.00
231626	10002	East Hole	2003-09-30	1.00
231627	10002	East Hole	2003-09-30	1.00
231655	10002	East Hole	2003-09-30	1.00
231832	10002	East Hole	2003-09-30	1.00
231833	10002	East Hole	2003-09-30	1.00
232566	10002	East Hole	2003-09-30	1.00
597686	10002	East Hole	2003-09-30	1.00
628505	10002	East Hole	2003-09-30	1.00
639368	10002	East Hole	2003-09-30	1.00
639443	10002	East Hole	2003-09-30	1.00
652046	10002	East Hole	2003-09-30	1.00
669917	10002	East Hole	2003-09-30	1.00
680630	10002	East Hole	2003-09-30	1.00
683519	10002	East Hole	2003-09-30	1.00
699906	10002	East Hole	2003-09-30	1.00
699907	10002	East Hole	2003-09-30	1.00
729540	10002	East Hole	2003-09-30	1.00
730211	10002	East Hole	2003-09-30	1.00
730430	10002	East Hole	2003-09-30	1.00
744340	10002	East Hole	2003-09-30	1.00
744343	10002	East Hole	2003-09-30	1.00
744344	10002	East Hole	2003-09-30	1.00

Programs containing flagged data:

4012 - SCCF Oyster Restoration Monitoring

4044 - NRDA Oyster Cultch Recovery Project

5007 - RESTORE Oyster Cultch Recovery

10002 - Apalachicola Bay Oyster Size Class Monitoring

Shell Height/0.1m2

Table 5: Flagged Values - Low Indicator Quantile: **4.059**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
23951	5063	240	2016-11-13	3
700089	5063	375	2016-11-17	4

Programs containing flagged data:

5063 - Distribution and Condition of Intertidal Eastern Oyster (Crassostrea virginica) Reefs in Apalachicola Bay Florida Based on High-Resolution Satellite Imagery

Shell Height/NAm2

Table 6: Flagged Values - Low Indicator Quantile: **3.48409**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
494178	4042	185a	2018-01-30	2.0
577773	4042	185a	2018-01-30	2.0
658686	4042	371a	2018-01-29	3.3
450384	4042	515a	2018-01-31	2.0
503986	4042	515a	2018-01-31	2.0
582675	4042	515a	2018-01-31	3.0
488895	4042	699b	2015-03-05	2.0
613636	4042	699b	2015-03-05	0.0

Programs containing flagged data:

4042 - Estero Bay Oyster Monitoring

High Quantile

Shell Height/0.06m2

Table 7: Flagged Values - High Indicator Quantile: **125.82025**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
761462	4000	FM32	2018-09-10 00:00:00	126.50
795017	4000	GR1	2014-05-22 00:00:00	136.60
795798	4000	GR1	2015-07-22 00:00:00	138.70
796148	4000	GR1	2016-08-22 00:00:00	134.80
796233	4000	GR1	2016-08-22 00:00:00	132.00
815884	4000	GR11	2016-02-17 00:00:00	127.80
818180	4000	GR11	2016-02-17 00:00:00	135.70
818325	4000	GR11	2016-02-17 00:00:00	140.10
819124	4000	GR11	2016-02-17 00:00:00	150.90
809789	4000	GR1A	2018-09-11 00:00:00	142.10
897358	4000	GR21	2016-09-09 00:00:00	126.00
892265	4000	GR21	2016-09-12 00:00:00	128.70
763060	4000	GR2A	2016-07-27 00:00:00	142.90
772335	4000	GR2A	2016-07-27 00:00:00	131.30
807232	4000	GR2B	2020-02-17 00:00:00	132.00
772460	4000	GR30	2016-09-12 00:00:00	146.80
772581	4000	GR30	2016-09-12 00:00:00	129.20
796387	4000	GR32	2016-08-24 00:00:00	126.70
784004	4000	GR4	2015-07-23 00:00:00	128.70
887265	4000	GR70	2016-02-17 00:00:00	163.00
897766	4000	GR78	2016-08-24 00:00:00	138.80
905468	4000	GR78	2016-08-24 00:00:00	135.30
779253	4000	MC2	2015-06-22 00:00:00	237.20
786092	4000	SA443	2016-08-26 00:00:00	129.80
786537	4000	SR1A	2016-08-10 00:00:00	152.90
852355	4000	SR4	2014-06-03 00:00:00	130.20
853868	4000	SR4	2014-07-03 00:00:00	130.20
851179	4000	SR4	2015-01-27 00:00:00	132.40
806820	4000	SR5	2015-06-23 00:00:00	126.90
858396	4000	SR6A	2016-07-29 00:00:00	146.20
858523	4000	SR6A	2016-07-29 00:00:00	126.40
834755	4000	SR7	2015-01-27 00:00:00	129.80
809672	4000	SR7A	2016-07-29 00:00:00	128.10
810739	4000	SR7A	2016-07-29 00:00:00	126.90
891613	4000	SR8	2015-01-27 00:00:00	134.20
892237	4000	SR8	2015-01-27 00:00:00	146.50
895703	4000	SR8	2015-01-27 00:00:00	137.50
897370	4000	SR8	2015-01-27 00:00:00	128.50
901005	4000	SR8	2015-01-27 00:00:00	130.00
899610	4000	SR8	2015-06-23 00:00:00	130.70
897535	4000	SR8	2016-12-28 00:00:00	174.50
807110	4000	SR86	2016-08-17 00:00:00	131.60
807398	4000	SR86	2016-08-17 00:00:00	133.00
808918	4000	SR86	2016-08-17 00:00:00	126.10
837785	4000	TR220	2016-02-29 00:00:00	135.20

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
894278	4000	TR3A	2014-06-04 00:00:00	137.20
816689	4000	W22GR13	2022-01-13 00:00:00	135.10
787613	4000	W22GR14	2022-01-13 00:00:00	126.40
787637	4000	W22GR14	2022-01-13 00:00:00	130.30
787848	4000	W22GR14	2022-01-13 00:00:00	129.30
787877	4000	W22GR14	2022-01-13 00:00:00	130.50
787929	4000	W22GR15	2022-03-16 00:00:00	158.00
787932	4000	W22GR15	2022-03-16 00:00:00	145.80
787937	4000	W22GR15	2022-03-16 00:00:00	135.60
788013	4000	W22GR15	2022-03-16 00:00:00	153.20
788022	4000	W22GR15	2022-03-16 00:00:00	128.90
788033	4000	W22GR15	2022-03-16 00:00:00	127.60
788052	4000	W22GR15	2022-03-16 00:00:00	126.50
788132	4000	W22GR15	2022-03-16 00:00:00	143.40
788180	4000	W22GR15	2022-03-16 00:00:00	133.80
788208	4000	W22GR15	2022-03-16 00:00:00	135.00
849229	4000	W22GR17	2022-03-16 00:00:00	129.50
849359	4000	W22GR17	2022-03-16 00:00:00	125.90
849360	4000	W22GR17	2022-03-16 00:00:00	137.20
850363	4000	W22GR17	2022-03-16 00:00:00	150.00
850526	4000	W22GR17	2022-03-16 00:00:00	150.50
851057	4000	W22GR17	2022-03-16 00:00:00	133.50
851856	4000	W22GR17	2022-03-16 00:00:00	150.10
851857	4000	W22GR17	2022-03-16 00:00:00	152.10
852133	4000	W22GR17	2022-03-16 00:00:00	127.60
852136	4000	W22GR17	2022-03-16 00:00:00	128.30
643431	5017	B1 NEW	2016-06-02 00:00:00	139.50
4239	5017	B2	2016-05-31 00:00:00	142.30
702684	5017	B2	2016-05-31 00:00:00	129.50
702692	5017	B2	2016-05-31 00:00:00	149.30
755818	5017	B2	2016-05-31 00:00:00	126.90
661032	5017	B5	2016-06-28 00:00:00	164.30
2961	5017	MLC3	2015-05-30 00:00:00	865.00
3657	5017	MLC5	2015-06-10 00:00:00	344.00
15060	5017	MLC5	2015-06-10 00:00:00	367.00
1053	5017	MLC7	2015-05-31 00:00:00	136.00
143803	5035	8849	2018-09-11 19:39:45	145.71
176707	5035	8849	2018-09-11 19:39:45	130.26
203438	5035	8849	2018-09-11 19:39:45	130.25
151526	5035	8850	2018-09-11 19:48:19	130.51
178226	5035	8850	2018-09-11 19:48:19	146.25
178233	5035	8850	2018-09-11 19:48:19	133.47
207740	5035	8850	2018-09-11 19:48:19	131.40
741019	5035	8850	2018-09-11 19:48:19	141.75
179377	5035	8851	2018-09-11 20:12:16	128.78
143082	5035	8852	2018-09-11 20:50:29	129.23
143156	5035	8852	2018-09-11 20:50:29	127.17
138947	5035	8853	2018-09-11 20:52:58	132.83
143170	5035	8853	2018-09-11 20:52:58	125.83
671776	5035	8853	2018-09-11 20:52:58	140.79
151325	5035	8854	2018-09-11 20:54:55	127.05
668910	5035	8854	2018-09-11 20:54:55	128.13

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
193974	5035	8857	2018-09-11 22:25:14	128.97
228185	5035	8857	2018-09-11 22:25:14	131.09
235296	5035	8857	2018-09-11 22:25:14	127.69
140985	5035	8889	2018-10-04 20:53:33	133.17
149831	5035	8889	2018-10-04 20:53:33	127.29
639479	5035	8897	2018-10-05 20:53:20	138.49
146083	5035	8922	2018-09-04 21:46:47	136.42
146086	5035	8922	2018-09-04 21:46:47	131.01
115089	5035	8924	2018-09-04 22:42:42	126.52
211309	5035	8932	2018-09-11 11:25:06	129.55
81892	5035	8933	2018-09-11 11:26:21	126.45

Programs containing flagged data:

4000 - Guana Tolomato Matanzas NERR Oyster monitoring

5017 - Northern Coastal Basins and Mosquito Lagoon Oyster Condition Assessment

5035 - Historical Oyster Body Size (HOBS) Study

Reef Height

Table 8: Flagged Values - High Indicator Quantile: **15685.4**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
8372	5075	SGI02	2019-12-16	16300
707257	5075	SGI02	2019-12-16	15700
8473	5075	SGI03	2019-12-16	16100

Programs containing flagged data:

5075 - Apalachicola Bay Intertidal Oyster Sampling

Shell Height/0.25m2

Table 9: Flagged Values - High Indicator Quantile: **105**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
668072	4014	NWF_37_1	2008-07-18	110.00
5738	4014	NWF_39_1	2008-07-24	115.00
10405	4014	NWF_50_1	2008-07-25	110.00
5592	4014	NWF_52_1	2008-07-25	110.00
15021	4014	NWF_56_4	2013-07-02	116.00
14676	4014	NWF_76_1	2008-08-15	110.00
20634	4014	NWF_77_2	2013-07-15	110.00
18817	4014	NWF_79_2	2013-07-15	115.00
6090	4014	SWF_01_2	2008-07-01	130.00
6201	4014	SWF_02_3	2008-07-01	110.00
16040	4014	SWF_06_3	2008-07-02	110.00
12626	4014	SWF_19_1	2008-07-10	150.00
16757	4014	SWF_23_1	2013-08-15	110.00
17997	4014	SWF_25_1	2013-07-29	118.00
24202	4014	SWF_25_2	2013-07-29	125.00
24923	4014	SWF_27_1	2008-07-10	115.00
8222	4014	SWF_28_1	2008-07-11	130.00
18811	4014	SWF_28_1	2008-07-11	115.00
697749	4014	SWF_29_1	2008-07-11	110.00
437523	4014	SWF_33_1	2008-07-11	110.00
10320	4014	SWF_35_1	2008-07-11	110.00
845583	4044	NRDA_APA-CP-MP1	2017-04-18	107.00
861611	4044	NRDA_APA-CP-MP1	2017-04-18	112.00
865514	4044	NRDA_APA-CP-MP1	2017-04-18	125.00
866891	4044	NRDA_APA-CP-MP1	2017-04-18	115.00
789825	4044	NRDA_APA-CT-MP1	2018-04-02	110.00
828855	4044	NRDA_APA-CT-MP2	2017-06-30	128.00
829714	4044	NRDA_APA-CT-MP2	2017-06-30	113.00
908493	4044	NRDA_APA-LH-MP1	2017-06-09	107.00
907678	4044	NRDA_APA-LH-MP1	2018-03-15	111.00
792726	4044	NRDA_APA-NBN-MP1	2021-12-02	109.00
793864	4044	NRDA_APA-NBN-MP1	2021-12-02	106.00
879550	4044	NRDA_APA-RC1-MP1	2018-03-05	108.00
827128	4044	NRDA_APA-RC2-MP1	2017-07-05	110.00
829111	4044	NRDA_APA-RC2-MP1	2017-07-05	138.00
753080	5007	R-CP-MP1	2021-04-14	107.00
102776	5007	R-CPS-MP1	2021-06-17	108.00
692817	5007	R-CPS-MP2	2021-06-17	118.00
62488	5007	R-ME-MP1	2021-06-04	108.00
55136	5007	R-ME-MP2	2021-06-04	112.00
92532	5007	R-PR-MP1	2021-06-24	129.00
98180	5007	R-PR-MP1	2021-06-24	120.00
98186	5007	R-PR-MP1	2021-06-24	143.00
99800	5007	R-PR-MP2	2021-06-24	116.00
44649	5007	R-SB-MP1	2021-06-04	112.00
73096	5007	R-SB-MP1	2021-06-04	108.00
21967	5070	Inshore 1	2016-07-25	108.47
38417	5070	Inshore 1	2016-07-25	108.47

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
15381	5070	Inshore 4	2016-07-25	109.16
21871	5070	Inshore 4	2016-07-25	110.25
26255	5070	Inshore 4	2016-07-25	110.25
28227	5070	Inshore 4	2016-07-25	109.16
12761	5074	Homo_18	2018-03-22	107.00
12760	5074	Homo_21	2018-03-28	107.00
662352	5074	Homo_21	2018-03-28	105.50
756458	5074	Homo_21	2018-03-28	112.00
168165	10002	Bulkhead Plant	1989-04-21	110.00
232246	10002	Bulkhead Plant	1989-04-21	110.00
679656	10002	Bulkhead Plant	1989-04-21	135.00
271955	10002	Cabbage Lump	1984-06-14	130.00
272681	10002	Cabbage Lump	1984-06-14	110.00
274614	10002	Cabbage Lump	1984-06-14	130.00
280399	10002	Cabbage Lump	1984-06-14	120.00
281457	10002	Cabbage Lump	1984-06-14	160.00
285426	10002	Cabbage Lump	1989-09-05	110.00
258295	10002	Cabbage Lump	1992-07-13	115.00
276262	10002	Cabbage Lump	1992-09-15	110.00
283286	10002	Cabbage Lump	1992-09-15	110.00
293169	10002	Cabbage Lump	1992-09-15	125.00
288036	10002	Cat Plant	1991-06-18	110.00
312701	10002	Cat Plant	1991-06-18	115.00
296177	10002	Cat Plant	1992-06-23	115.00
297958	10002	Cat Plant	1992-06-23	115.00
302769	10002	Cat Plant	1992-06-23	115.00
315027	10002	Cat Plant	1992-06-23	150.00
315052	10002	Cat Plant	1992-06-23	150.00
315378	10002	Cat Plant	1992-06-23	110.00
320297	10002	Cat Plant	1992-06-23	115.00
325230	10002	Cat Plant	1992-06-23	110.00
348985	10002	Cat Plant	1992-06-23	110.00
349672	10002	Cat Plant	1992-06-23	110.00
349686	10002	Cat Plant	1992-06-23	110.00
350214	10002	Cat Plant	1992-06-23	110.00
582319	10002	Cat Plant	1992-06-23	125.00
629319	10002	Cat Plant	1992-06-23	125.00
645099	10002	Cat Plant	1992-06-23	110.00
656579	10002	Cat Plant	1992-06-23	110.00
350207	10002	Cat Plant	1993-06-22	115.00
356812	10002	Cat Plant	1993-06-22	110.00
376786	10002	Cat Plant	1993-06-22	120.00
647207	10002	Cat Plant	1993-06-22	110.00
441823	10002	Cat Point	1988-06-07	110.00
444430	10002	Cat Point	1988-06-07	120.00
691882	10002	Cat Point	1988-06-07	110.00
597605	10002	Cat Point	1990-06-14	110.00
325350	10002	Cat Point	1990-09-18	120.00
340232	10002	Cat Point	1990-09-18	125.00
342545	10002	Cat Point	1991-06-18	110.00
716521	10002	Cat Point	1991-06-18	110.00
326387	10002	Cat Point	1991-11-26	110.00

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
375411	10002	Cat Point	1993-04-29	110.00
364929	10002	Cat Relay	1992-06-23	120.00
371513	10002	Cat Relay	1992-06-23	110.00
373337	10002	Cat Relay	1992-06-23	110.00
646961	10002	Cat Relay	1992-06-23	135.00
655117	10002	Cat Relay	1992-06-23	110.00
353733	10002	Dry Bar	1982-09-01	110.00
358403	10002	Dry Bar	1982-09-01	110.00
618886	10002	Dry Bar	1982-09-01	110.00
353222	10002	Dry Bar	1992-11-23	115.00
356996	10002	Dry Bar	1992-11-23	120.00
652465	10002	Dry Bar	1992-11-23	125.00
363714	10002	Dry Bar	1993-06-03	110.00
363944	10002	Dry Bar	1993-06-03	120.00
366554	10002	Dry Bar	1993-06-03	110.00
651776	10002	Dry Bar	1993-06-03	110.00
203287	10002	Dry Com	1992-11-23	120.00
222504	10002	Dry Com	1992-11-23	125.00
652426	10002	Dry Com	1992-11-23	115.00
147659	10002	Dry Plant	1990-09-19	110.00
666012	10002	Dry Plant / North Spur Plant	1985-09-12	115.00
149752	10002	Dry Plant / North Spur Plant	1985-10-01	110.00
175036	10002	Dry Plant / North Spur Plant	1985-10-01	110.00
175376	10002	Dry Plant / North Spur Plant	1985-10-01	110.00
178214	10002	Dry Plant / North Spur Plant	1985-10-01	115.00
220681	10002	Dry Plant / North Spur Plant	1985-10-01	115.00
595173	10002	Dry Plant / North Spur Plant	1985-10-01	110.00
639567	10002	Dry Plant / North Spur Plant	1985-10-01	115.00
670996	10002	Dry Plant / North Spur Plant	1985-10-01	110.00
731193	10002	Dry Plant / North Spur Plant	1985-10-01	115.00
177768	10002	Dry Plant / North Spur Plant	1985-11-06	110.00
138018	10002	Dry Plant / North Spur Plant	1986-01-07	110.00
192951	10002	Dry Plant / North Spur Plant	1986-01-07	110.00
194895	10002	Dry Plant / North Spur Plant	1986-01-07	110.00
174977	10002	Dry Plant / North Spur Plant	1986-09-25	110.00
153239	10002	Dry Plant / North Spur Plant	1987-09-10	120.00
176140	10002	Dry Plant / North Spur Plant	1988-06-09	120.00
215929	10002	Dry Plant / North Spur Plant	1989-06-14	115.00
242597	10002	Dry Plant / North Spur Plant	1989-09-07	120.00
258690	10002	East Hole	1988-06-08	120.00
305402	10002	East Hole	1989-09-06	120.00
96802	10002	East Hole	1993-06-02	110.00
96826	10002	East Hole	1993-06-02	130.00
117966	10002	East Hole	1993-06-02	110.00
119366	10002	East Hole	1993-06-02	110.00
121231	10002	East Hole	1993-06-02	110.00
121501	10002	East Hole	1993-06-02	115.00
175894	10002	Green Point Plant	1984-06-12	120.00
191879	10002	Green Point Plant	1984-06-12	130.00
199822	10002	Green Point Plant	1984-06-12	110.00
204838	10002	Green Point Plant	1984-06-12	120.00
204843	10002	Green Point Plant	1984-06-12	110.00

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
210801	10002	Green Point Plant	1984-06-12	110.00
609470	10002	Green Point Plant	1984-06-12	110.00
652185	10002	Green Point Plant	1984-06-12	110.00
143794	10002	Green Point Plant	1985-05-31	120.00
154140	10002	Green Point Plant	1985-05-31	125.00
215617	10002	Green Point Plant	1985-05-31	110.00
743846	10002	Green Point Plant	1985-05-31	110.00
113645	10002	Green Point Plant	1985-09-04	110.00
179632	10002	Green Point Plant	1986-04-30	110.00
595107	10002	Green Point Plant	1986-04-30	110.00
210044	10002	Green Point Plant	1986-08-01	115.00
142892	10002	Green Point Plant	1987-09-09	115.00
698578	10002	Green Point Plant	1987-09-09	115.00
189186	10002	Green Point Plant	1989-09-07	120.00
160362	10002	Green Point Plant	1990-09-18	110.00
219388	10002	Green Point Plant	1991-09-18	110.00
739117	10002	Green Point Plant	1992-07-13	125.00
737851	10002	Green Point Plant	1992-09-15	110.00
91485	10002	Lighthouse Bar	1987-06-04	115.00
91937	10002	Lighthouse Bar	1987-06-04	115.00
101922	10002	Lighthouse Bar	1987-06-04	115.00
105768	10002	Lighthouse Bar	1987-06-04	115.00
107653	10002	Lighthouse Bar	1987-06-04	115.00
108659	10002	Lighthouse Bar	1987-06-04	110.00
125016	10002	Lighthouse Bar	1987-06-04	110.00
641337	10002	Lighthouse Bar	1987-06-04	110.00
663633	10002	Lighthouse Bar	1987-06-04	110.00
663637	10002	Lighthouse Bar	1987-06-04	120.00
672045	10002	Lighthouse Bar	1987-06-04	130.00
672538	10002	Lighthouse Bar	1987-06-04	120.00
97741	10002	Lighthouse Bar	1987-10-15	110.00
102241	10002	Lighthouse Bar	1987-10-15	110.00
102851	10002	Lighthouse Bar	1987-10-15	110.00
94336	10002	Lighthouse Bar	1988-06-07	135.00
126831	10002	Lighthouse Bar	1988-06-07	120.00
130911	10002	Lighthouse Bar	1988-06-07	115.00
132396	10002	Lighthouse Bar	1988-06-07	110.00
683480	10002	Lighthouse Bar	1988-06-07	135.00
733240	10002	Lighthouse Bar	1988-06-07	120.00
752443	10002	Lighthouse Bar	1988-06-07	135.00
95103	10002	Lighthouse Bar	1989-06-13	120.00
97685	10002	Lighthouse Bar	1989-06-13	110.00
98894	10002	Lighthouse Bar	1989-06-13	110.00
104375	10002	Lighthouse Bar	1989-06-13	120.00
105320	10002	Lighthouse Bar	1989-06-13	115.00
127394	10002	Lighthouse Bar	1989-06-13	110.00
655670	10002	Lighthouse Bar	1989-06-13	125.00
747446	10002	Lighthouse Bar	1989-06-13	135.00
95675	10002	Lighthouse Bar	1990-06-12	125.00
96299	10002	Lighthouse Bar	1990-06-12	140.00
123920	10002	Lighthouse Bar	1990-09-20	110.00
118634	10002	Lighthouse Bar	1992-06-22	110.00

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
118983	10002	Lighthouse Bar	1992-06-22	115.00
132751	10002	Lighthouse Bar	1992-06-22	110.00
132874	10002	Lighthouse Bar	1992-06-22	110.00
133217	10002	Lighthouse Bar	1992-06-22	110.00
133561	10002	Lighthouse Bar	1992-06-22	110.00
134126	10002	Lighthouse Bar	1992-06-22	110.00
135384	10002	Lighthouse Bar	1992-06-22	115.00
148695	10002	Lighthouse Bar	1992-06-22	115.00
166893	10002	Lighthouse Bar	1992-06-22	120.00
196241	10002	Lighthouse Bar	1992-06-22	110.00
600625	10002	Lighthouse Bar	1992-06-22	110.00
600801	10002	Lighthouse Bar	1992-06-22	110.00
669730	10002	Lighthouse Bar	1992-06-22	110.00
599247	10002	Norman's Lump	1982-09-01	115.00
655609	10002	Norman's Lump	1982-12-01	110.00
155719	10002	Norman's Lump	1983-06-01	115.00
156125	10002	Norman's Lump	1983-06-01	115.00
155320	10002	Norman's Lump	1984-06-01	110.00
171277	10002	Norman's Lump	1984-09-01	120.00
192619	10002	Norman's Lump	1984-09-01	110.00
671637	10002	Norman's Lump	1986-06-05	110.00
739249	10002	Norman's Lump	1986-06-05	110.00
186389	10002	Norman's Lump	1986-09-23	115.00
187100	10002	Norman's Lump	1987-06-04	115.00
189085	10002	Norman's Lump	1987-06-04	110.00
670798	10002	Norman's Lump	1987-06-04	110.00
684257	10002	Norman's Lump	1987-06-04	125.00
187599	10002	Norman's Lump	1987-10-15	110.00
188442	10002	Norman's Lump	1987-10-15	110.00
200712	10002	Norman's Lump	1987-10-15	110.00
200734	10002	Norman's Lump	1988-06-07	110.00
204021	10002	Norman's Lump	1988-06-07	110.00
204616	10002	Norman's Lump	1989-06-13	140.00
197316	10002	Norman's Lump	1990-06-11	110.00
269402	10002	Norman's Lump	1990-06-11	110.00
217090	10002	Norman's Lump South	1991-06-18	110.00
217098	10002	Norman's Lump South	1991-06-18	110.00
221929	10002	Norman's Lump South	1991-06-18	115.00
227262	10002	Norman's Lump South	1991-06-18	110.00
227392	10002	Norman's Lump South	1991-06-18	110.00
227999	10002	Norman's Lump South	1991-06-18	110.00
240325	10002	Norman's Lump South	1991-06-18	110.00
590066	10002	Norman's Lump South	1991-06-18	110.00
597740	10002	Norman's Lump South	1991-06-18	120.00
724273	10002	Norman's Lump South	1991-06-18	115.00
737960	10002	Norman's Lump South	1991-06-18	135.00
229909	10002	Norman's Lump South	1992-06-22	110.00
248501	10002	Norman's Lump South	1992-06-22	115.00
251172	10002	Norman's Lump South	1992-06-22	115.00
261872	10002	Norman's Lump South	1992-06-22	120.00
262286	10002	Norman's Lump South	1992-06-22	115.00
257533	10002	Norman's Lump South	1993-06-11	115.00

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
280351	10002	Norman's Lump South	1993-06-11	110.00
285769	10002	Norman's Lump South	1993-06-11	110.00
286476	10002	Norman's Lump South	1993-06-11	110.00
671767	10002	Norman's Lump South	1993-06-11	110.00
743278	10002	Norman's Lump South	1993-06-11	110.00
257559	10002	Norman's South	1993-06-16	120.00
262345	10002	Norman's South	1993-06-16	115.00
270487	10002	Norman's South	1993-06-16	110.00
273991	10002	Norman's South	1993-06-16	110.00
276018	10002	Norman's South	1993-06-16	110.00
594861	10002	Norman's South	1993-06-16	110.00
650875	10002	Norman's South	1993-06-16	110.00
337725	10002	Paradise Flats	1985-09-12	110.00
359981	10002	Paradise Flats	1985-09-12	120.00
658189	10002	Paradise Flats	1985-11-06	115.00
337189	10002	Paradise Flats	1986-01-07	115.00
337447	10002	Paradise Flats	1986-01-07	115.00
337733	10002	Paradise Flats	1986-01-07	115.00
355369	10002	Paradise Flats	1986-01-07	115.00
359055	10002	Paradise Flats	1986-01-07	120.00
363060	10002	Paradise Flats	1986-01-07	115.00
337045	10002	Paradise Flats	1986-04-30	120.00
337098	10002	Paradise Flats	1986-04-30	110.00
338305	10002	Paradise Flats	1986-04-30	110.00
338359	10002	Paradise Flats	1986-04-30	115.00
338361	10002	Paradise Flats	1986-04-30	110.00
339446	10002	Paradise Flats	1986-04-30	130.00
349850	10002	Paradise Flats	1986-04-30	110.00
351134	10002	Paradise Flats	1986-04-30	110.00
355353	10002	Paradise Flats	1986-04-30	110.00
356568	10002	Paradise Flats	1986-04-30	125.00
361197	10002	Paradise Flats	1986-04-30	110.00
361935	10002	Paradise Flats	1986-04-30	110.00
362731	10002	Paradise Flats	1986-04-30	120.00
362738	10002	Paradise Flats	1986-04-30	110.00
365013	10002	Paradise Flats	1986-04-30	125.00
365441	10002	Paradise Flats	1986-04-30	110.00
366247	10002	Paradise Flats	1986-04-30	110.00
366248	10002	Paradise Flats	1986-04-30	110.00
367977	10002	Paradise Flats	1986-04-30	110.00
582589	10002	Paradise Flats	1986-04-30	120.00
624353	10002	Paradise Flats	1986-04-30	120.00
632886	10002	Paradise Flats	1986-04-30	110.00
638543	10002	Paradise Flats	1986-04-30	110.00
723141	10002	Paradise Flats	1986-04-30	110.00
350519	10002	Paradise Flats	1986-07-31	130.00
363333	10002	Paradise Flats	1986-07-31	150.00
366362	10002	Paradise Flats	1986-07-31	110.00
367626	10002	Paradise Flats	1986-07-31	170.00
367881	10002	Paradise Flats	1986-07-31	110.00
368535	10002	Paradise Flats	1986-07-31	110.00
707185	10002	Paradise Flats	1986-07-31	115.00

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
371025	10002	Paradise Flats	1986-09-24	110.00
385303	10002	Paradise Flats	1986-09-24	115.00
387225	10002	Paradise Flats	1986-09-24	120.00
387298	10002	Paradise Flats	1986-09-24	120.00
390910	10002	Paradise Flats	1986-09-24	140.00
395079	10002	Paradise Flats	1986-09-24	115.00
391044	10002	Paradise Flats	1987-09-10	110.00
617162	10002	Paradise Flats	1987-09-10	110.00
405930	10002	Paradise Flats	1988-09-27	120.00
395070	10002	Paradise Flats	1989-09-05	110.00
331518	10002	Platform Bar	1982-09-01	110.00
340227	10002	Platform Bar	1982-09-01	120.00
372490	10002	Platform Bar	1982-09-01	120.00
372810	10002	Platform Bar	1982-09-01	110.00
406648	10002	Platform Bar	1982-09-01	110.00
409021	10002	Platform Bar	1982-09-01	120.00
411487	10002	Platform Bar	1982-09-01	110.00
431972	10002	Platform Bar	1982-09-01	145.00
615044	10002	Platform Bar	1982-09-01	130.00
340441	10002	Platform Bar	1982-12-01	110.00
364870	10002	Platform Bar	1982-12-01	115.00
373544	10002	Platform Bar	1982-12-01	125.00
406303	10002	Platform Bar	1982-12-01	110.00
621504	10002	Platform Bar	1982-12-01	115.00
373873	10002	Platform Bar	1983-06-01	110.00
375836	10002	Platform Bar	1983-06-01	115.00
343436	10002	Platform Bar	1984-06-01	110.00
343507	10002	Platform Bar	1984-06-01	110.00
354114	10002	Platform Bar	1984-06-01	115.00
354554	10002	Platform Bar	1984-06-01	110.00
605733	10002	Platform Bar	1984-06-01	120.00
632002	10002	Platform Bar	1984-06-01	120.00
394314	10002	Platform Bar	1984-12-01	120.00
589352	10002	Platform Bar	1984-12-01	110.00
722735	10002	Platform Bar	1984-12-01	115.00
722799	10002	Platform Bar	1984-12-01	110.00
350302	10002	Platform Bar	1985-05-29	115.00
352067	10002	Platform Bar	1985-05-29	110.00
352068	10002	Platform Bar	1985-05-29	115.00
354788	10002	Platform Bar	1985-05-29	110.00
389116	10002	Platform Bar	1985-05-29	110.00
390056	10002	Platform Bar	1985-05-29	125.00
390443	10002	Platform Bar	1985-05-29	125.00
390956	10002	Platform Bar	1985-05-29	110.00
390961	10002	Platform Bar	1985-05-29	110.00
390989	10002	Platform Bar	1985-05-29	120.00
391497	10002	Platform Bar	1985-05-29	110.00
391937	10002	Platform Bar	1985-05-29	125.00
394908	10002	Platform Bar	1985-05-29	120.00
395250	10002	Platform Bar	1985-05-29	110.00
395302	10002	Platform Bar	1985-05-29	125.00
395307	10002	Platform Bar	1985-05-29	125.00

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
395781	10002	Platform Bar	1985-05-29	110.00
397517	10002	Platform Bar	1985-05-29	120.00
397530	10002	Platform Bar	1985-05-29	110.00
398782	10002	Platform Bar	1985-05-29	110.00
398862	10002	Platform Bar	1985-05-29	120.00
398868	10002	Platform Bar	1985-05-29	110.00
399386	10002	Platform Bar	1985-05-29	110.00
400208	10002	Platform Bar	1985-05-29	110.00
400615	10002	Platform Bar	1985-05-29	130.00
401130	10002	Platform Bar	1985-05-29	110.00
401618	10002	Platform Bar	1985-05-29	110.00
403053	10002	Platform Bar	1985-05-29	130.00
403168	10002	Platform Bar	1985-05-29	110.00
403226	10002	Platform Bar	1985-05-29	120.00
405766	10002	Platform Bar	1985-05-29	110.00
405875	10002	Platform Bar	1985-05-29	110.00
407408	10002	Platform Bar	1985-05-29	110.00
409646	10002	Platform Bar	1985-05-29	120.00
409749	10002	Platform Bar	1985-05-29	120.00
410177	10002	Platform Bar	1985-05-29	130.00
411537	10002	Platform Bar	1985-05-29	120.00
589809	10002	Platform Bar	1985-05-29	115.00
591590	10002	Platform Bar	1985-05-29	115.00
617214	10002	Platform Bar	1985-05-29	125.00
629792	10002	Platform Bar	1985-05-29	110.00
642204	10002	Platform Bar	1985-05-29	115.00
698470	10002	Platform Bar	1985-05-29	110.00
698615	10002	Platform Bar	1985-05-29	115.00
703831	10002	Platform Bar	1985-05-29	110.00
731882	10002	Platform Bar	1985-05-29	110.00
733768	10002	Platform Bar	1985-05-29	110.00
349291	10002	Platform Bar	1987-09-09	120.00
364343	10002	Platform Bar	1987-09-09	110.00
588815	10002	Platform Bar	1987-09-09	110.00
621100	10002	Platform Bar	1987-09-09	120.00
688125	10002	Platform Bar	1987-09-09	120.00
364380	10002	Platform Bar	1988-06-07	110.00
391569	10002	Platform Bar	1988-06-07	110.00
409088	10002	Platform Bar	1988-06-07	120.00
582109	10002	Platform Bar	1988-06-07	110.00
657493	10002	Platform Bar	1988-09-29	110.00
398924	10002	Platform Bar	1989-09-06	130.00
576941	10002	Platform Bar	1990-06-14	110.00
412500	10002	Platform Bar East	1991-06-19	110.00
422864	10002	Platform Bar East	1991-06-19	110.00
177060	10002	Porters Bar	1992-09-03	110.00

Programs containing flagged data:

4014 - Loxahatchee River Oyster Mapping and Recruitment
4044 - NRDA Oyster Cultch Recovery Project
5007 - RESTORE Oyster Cultch Recovery

5070 - Prehistoric baseline reveals substantial decline of oyster reef condition in a Gulf of Mexico conservation priority area - modern oyster data

5074 - Assessment of Oysters and Barnacles Along the Chassahowitzka, Homosassa, and Lower Withlacoochee River Systems

10002 - Apalachicola Bay Oyster Size Class Monitoring

Number of Oysters Counted - Dead/0.1m2

Table 10: Flagged Values - High Indicator Quantile: **67.76**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
658851	5063	385	2016-11-17	70

Programs containing flagged data:

5063 - Distribution and Condition of Intertidal Eastern Oyster (Crassostrea virginica) Reefs in Apalachicola Bay Florida Based on High-Resolution Satellite Imagery

Number of Oysters Counted - Live/0.1m2

Table 11: Flagged Values - High Indicator Quantile: **263**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
6471	5063	368	2016-11-17	267

Programs containing flagged data:

5063 - Distribution and Condition of Intertidal Eastern Oyster (Crassostrea virginica) Reefs in Apalachicola Bay Florida Based on High-Resolution Satellite Imagery

Shell Height/0.1m2

Table 12: Flagged Values - High Indicator Quantile: **79.941**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
6899	5063	285	2016-11-15	80
13049	5063	286	2016-11-15	84

Programs containing flagged data:

5063 - Distribution and Condition of Intertidal Eastern Oyster (Crassostrea virginica) Reefs in Apalachicola Bay Florida Based on High-Resolution Satellite Imagery

Density

Table 13: Flagged Values - High Indicator Quantile: **7387.008**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
769345	4000	PF323	2015-12-16	9136
769347	4000	PF323	2015-12-16	8208
799026	4000	PF4	2018-09-09	7440
811258	4000	PF415	2016-01-13	8448
825198	4000	PFD	2015-08-06	7552
825334	4000	PFD	2015-08-06	11104

Programs containing flagged data:

4000 - Guana Tolomato Matanzas NERR Oyster monitoring

Number of Oysters Counted - Total/0.1m2

Table 14: Flagged Values - High Indicator Quantile: **288.2**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
10430	5063	368	2016-11-17	289

Programs containing flagged data:

5063 - Distribution and Condition of Intertidal Eastern Oyster (Crassostrea virginica) Reefs in Apalachicola Bay Florida Based on High-Resolution Satellite Imagery

Shell Height/1m2

Table 15: Flagged Values - High Indicator Quantile: **118.303**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
10045	5073	FLAN60-E0804-T3410007-01Q	2014-08-04	133

Programs containing flagged data:

5073 - Deepwater Horizon NRDA Oyster Technical Working Group Oyster Quadrat Abundance Sampling

Number of Oysters Counted - Dead/1m2

Table 16: Flagged Values - High Indicator Quantile: **171.616**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
709101	5073	FLAN61-A1006-TJ912Q	2010-10-06	178

Programs containing flagged data:

5073 - Deepwater Horizon NRDA Oyster Technical Working Group Oyster Quadrat Abundance Sampling

Number of Oysters Counted - Dead/0.25m2

Table 17: Flagged Values - High Indicator Quantile: **168.16**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
756511	4014	10	2003-09-22	201
606532	4014	5	2003-07-22	178
708937	5073	FLAO61-A1006-TJ916Q	2010-10-06	542

Programs containing flagged data:

4014 - Loxahatchee River Oyster Mapping and Recruitment
5073 - Deepwater Horizon NRDA Oyster Technical Working Group Oyster Quadrat Abundance Sampling

Number of Oysters Counted - Live/0.25m2

Table 18: Flagged Values - High Indicator Quantile: **457.165**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
904050	4012	TB_Restore	2016-03-01	512
606531	4014	10	2003-09-22	695
606818	4014	13	2003-10-21	901

Programs containing flagged data:

4012 - SCCF Oyster Restoration Monitoring
4014 - Loxahatchee River Oyster Mapping and Recruitment

Number of Oysters Counted - Total/1m2

Table 19: Flagged Values - High Indicator Quantile: **305.164**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
16308	5073	FLAN61-D0827-T1550005-04Q	2013-08-27	310

Programs containing flagged data:

5073 - Deepwater Horizon NRDA Oyster Technical Working Group Oyster Quadrat Abundance Sampling

Number of Oysters Counted - Live/1m2

Table 20: Flagged Values - High Indicator Quantile: **267.6**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
618358	5073	FLAN61-D0827-T1550005-04Q	2013-08-27	290

Programs containing flagged data:

5073 - Deepwater Horizon NRDA Oyster Technical Working Group Oyster Quadrat Abundance Sampling

Number of Oysters Counted - Live/0.06m2

Table 21: Flagged Values - High Indicator Quantile: **209.608**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
529377	972	ANG1	2013-05-22	248
529389	972	ANG1	2017-12-14	225

Programs containing flagged data:

972 - Sarasota County Comprehensive Oyster Monitoring Program

Shell Height/NAm2

Table 22: Flagged Values - High Indicator Quantile: **151.23306**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
34644	5072	8CI1	2012-06-22	154.08
34645	5072	8CI1	2013-06-05	156.81
68221	5072	8CI1	2013-06-11	169.00
34640	5072	8CI1	2013-06-12	161.95
28350	5072	8CI1	2013-06-17	151.87
22900	5072	8CI41	2011-06-15	155.00
28721	5072	8CI41	2011-06-17	169.18
35115	5072	8CI41	2011-06-17	151.26

Programs containing flagged data:

5072 - Prehistoric baseline reveals substantial decline of oyster reef condition in a Gulf of Mexico conservation priority area - archaeological oyster data

Number of Oysters Counted - Total/0.25m2

Table 23: Flagged Values - High Indicator Quantile: **584.288**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
606920	4014	10	2003-09-22	896
607002	4014	13	2003-10-21	1028
548528	5073	FLAO61-A1006-TJ916Q	2010-10-06	596

Programs containing flagged data:

4014 - Loxahatchee River Oyster Mapping and Recruitment
5073 - Deepwater Horizon NRDA Oyster Technical Working Group Oyster Quadrat Abundance Sampling

Number of Oysters Counted - Dead/0.06m2

Table 24: Flagged Values - High Indicator Quantile: **99.889**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
478848	4042	042a	2018-01-22	100
632755	4042	723a	2018-01-31	100

Programs containing flagged data:

4042 - Estero Bay Oyster Monitoring

Number of Oysters Counted - Total/0.06m2

Table 25: Flagged Values - High Indicator Quantile: **532.472**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
769350	4000	PF323	2015-12-16	571
825557	4000	PFD	2015-08-06	694

Programs containing flagged data:

4000 - Guana Tolomato Matanzas NERR Oyster monitoring

Number of Oysters Counted - Live/NAm2

Table 26: Flagged Values - High Indicator Quantile: **101.124**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
856330	4012	TB_Reference	2023-03-15	102

Programs containing flagged data:

4012 - SCCF Oyster Restoration Monitoring

Number of Oysters Counted - Total/NAm2

Table 27: Flagged Values - High Indicator Quantile: **104.5**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
843229	4012	TB_Reference	2023-03-15	105

Programs containing flagged data:

4012 - SCCF Oyster Restoration Monitoring

Number of Oysters Counted - Dead/NAm2

Table 28: Flagged Values - High Indicator Quantile: **27.85**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
841104	4012	TB_Reference	2021-03-11	28

Programs containing flagged data:

4012 - SCCF Oyster Restoration Monitoring