Submerged Aquatic Vegetation Indicator Quantile Report $_{\rm SEACAR\ Analysis}$

Last compiled on 21 September, 2023

Contents

Overview	2	2
Purpose		2
Relevant file locations		2
Process steps		2
Summary	:	3
Low Quantile	4	4
Braun Blanquet Score		4
High Quantile	;	5
Braun Blanquet Score	!	5
Percent Cover	(6
Modified Braun Blanquet Score	'	7
Shoot Count		8

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: 0.001Upper quantile: 0.999

Potential Included Parameters:

• Braun Blanquet Score

- Modified Braun Blanquet Score
- Percent Cover
- Percent Occurrence
- Presence/Absence
- Shoot Count

The data file used for the analysis: All_SAV_Parameters-2023-Jun-05.txt

Table 1: Indicator Quantile Overview

parameter	q_low	q_high	mean	n_tot	n_q_low	n_q_high	%_flagged
Braun Blanquet Score	0	6	0.34	1195747	1	9	0.00
Modified Braun Blanquet Score	0	5	2.19	30211	0	1	0.00
Percent Cover	0	100	4.07	498831	0	44	0.01
Percent Occurrence	0	400	11.15	598071	0	0	0.00
Presence/Absence	0	1	0.22	1904927	0	0	0.00
Shoot Count	0	5000	136.85	126614	0	125	0.10

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

Braun Blanquet Score

Table 2: Flagged Values - Low Indicator Quantile: ${\bf 0}$

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
1041731	296	276	2020-12-13	Thalassia testudinum	-0.69

Programs containing flagged data:

296- Florida Keys National Marine Sanctuary Seagrass Monitoring Project

High Quantile

Braun Blanquet Score

Table 3: Flagged Values - High Indicator Quantile: ${\bf 6}$

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
4631919	5027	BH14	2022-09-20	Halimeda discoidea	20
4642494	5027	DM08	2019-12-11	Halimeda discoidea	80
4645359	5027	DM08	2019-12-11	Halimeda spp.	80
4644272	5027	JT125	2022 - 05 - 16	Halimeda discoidea	13
4604751	5027	JT61	2019-06-07	Thalassia testudinum	15
4653337	5027	JT61	2019-06-07	Thalassia testudinum	15
4652260	5027	VR11	2019-05-28	Laurencia spp.	10
4629738	5027	VR11	2019-12-02	Halimeda discoidea	70
4636351	5027	VR11	2019-12-02	Halimeda spp.	70

Programs containing flagged data:

5027- North Biscayne Bay Seagrass Loss Monitoring Program

Percent Cover

Table 4: Flagged Values - High Indicator Quantile: ${\bf 100}$

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
902224	564	W1-06-12	2012-09-26	$Total_SAV$	105
905579	564	W1-12-11	2011-10-05	$Total_SAV$	105
851919	564	W1-16-17	2017-10-06	$Total_SAV$	101
885597	564	W1-17-11	2011-09-30	$Total_SAV$	105
899899	564	W1-18-14	2014-10-10	$Total_SAV$	101
862957	564	W1-22-19	2019-11-10	$Total_SAV$	104
885820	564	W1-22-19	2019-11-10	$Total_SAV$	150
905302	564	W1-23-11	2011-10-03	$Total_SAV$	101
904574	564	W1-24-11	2011-10-05	$Total_SAV$	105
877686	564	W1-25-15	2015-10-02	$Total_SAV$	105
897172	564	W1-26-12	2012-09-26	$Total_SAV$	101
900264	564	W1-27-11	2011-10-04	$Total_SAV$	101
902597	564	W1-27-11	2011-10-04	$Total_SAV$	140
910854	564	W1-27-16	2016-09-30	Drift algae	590
881534	564	W1-28-12	2012-09-26	$Total_SAV$	105
889463	564	W1-28-12	2012-09-26	$Total_SAV$	105
888266	564	W1-28-19	2019-12-31	$Total_SAV$	101
871433	564	W1-31-15	2015-10-07	$Total_SAV$	110
876105	564	W1-31-15	2015-10-07	$Total_SAV$	110
891859	564	W1-31-15	2015-10-07	$Total_SAV$	110
879834	564	W1-31-19	2019-12-31	$Total_SAV$	180
870742	564	W1-34-15	2015-10-02	$Total_SAV$	125
860575	564	W1-35-19	2019-12-31	$Total_SAV$	105
863969	564	W1-35-19	2019-12-31	$Total_SAV$	110
889163	564	W1-35-19	2019-12-31	$Total_SAV$	110
891385	564	W1-35-19	2019-12-31	$Total_SAV$	105
898777	564	W1-35-19	2019-12-31	$Total_SAV$	105
899898	564	W1-35-19	2019-12-31	$Total_SAV$	105
881055	564	W1-40-19	2019-12-31	$Total_SAV$	120
919482	564	W2-01-12	2012-09-14	$Total_SAV$	105
868235	564	W2-04-11	2011-09-29	$Total_SAV$	120
903495	564	W2-04-12	2012-09-13	$Total_SAV$	140
905303	564	W2-04-15	2015-10-21	$Total_SAV$	120
859202	564	W2-2-19	2019-03-10	$Total_SAV$	110
875693	564	W2-2-19	2019-03-10	$Total_SAV$	130
850185	564	W2-5-19	2019-12-31	$Total_SAV$	120
867362	564	W2-5-19	2019-12-31	$Total_SAV$	180
875703	564	W2-9-19	2019-03-10	$Total_SAV$	122
860940	564	W2-ALT-01-17	2017-09-29	$Total_SAV$	105
871614	564	W3-03-15	2015-10-05	$Total_SAV$	110
874968	564	W3-03-15	2015-10-05	$Total_SAV$	135
876110	564	W3-03-15	2015-10-05	$Total_SAV$	106
878339	564	W3-03-15	2015-10-05	$Total_SAV$	115
879857	564	W3-03-15	2015-10-05	$Total_SAV$	125

Programs containing flagged data:

564 - Western Pinellas County Seagrass Monitoring

Modified Braun Blanquet Score

Table 5: Flagged Values - High Indicator Quantile: ${\bf 5}$

RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
863763	559	KB06-2016	2016-06-30	Laurencia spp.	5.3

Programs containing flagged data:

559- Northern Big Bend Seagrass Monitoring

Shoot Count

Table 6: Flagged Values - High Indicator Quantile: $\bf 5000$

868919 564 SG-W3-03-13 2013-09-13 00:00:00 Halodule wrightii 5170.00 889746 564 W1-10-17 2017-10-11 00:00:00 Halodule wrightii 7970.00 9945882 564 W1-10-17 2017-10-11 00:00:00 Halodule wrightii 5600.00 999442 564 W1-10-11 2011-10-14 00:00:00 Halodule wrightii 5800.00 997745 564 W1-11-11 2011-10-14 00:00:00 Halodule wrightii 5300.00 997729 564 W2-03-12 2012-09-13 00:00:00 Halodule wrightii 5300.00 864977 564 W3-06-15 2015-10-05 00:00:00 Halodule wrightii 5100.00 887588 564 W3-06-15 2015-10-05 00:00:00 Halodule wrightii 5170.00 2858414 565 SiT17 2013-10-10 50:00:00 Halodule wrightii 5170.00 2858653 565 S3T1 2004-10-28 14:59:00 Syringodium filliforme 7203.00 2888464 565 S3T1 201-10-12 81:50:00 Syringodium filliforme 760:0	RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
999442 564 W1-10-17 2017-10-11 00:00:00 Halodule wrightii 5800.00 997745 564 W1-11-11 2011-10-14 00:00:00 Halodule wrightii 5570.00 997745 564 W2-03-12 2012-09-13 00:00:00 Halodule wrightii 5300.00 997929 564 W2-03-12 2012-09-13 00:00:00 Halodule wrightii 6330.00 997929 564 W2-05-17 2017-09-01 00:00:00 Halodule wrightii 5100.00 864977 564 W3-06-15 2015-10-05 00:00:00 Halodule wrightii 5170.00 867588 564 W3-06-15 2015-10-05 00:00:00 Halodule wrightii 5170.00 867588 564 W3-06-15 2015-10-05 00:00:00 Halodule wrightii 5170.00 8259414 565 S1T17 2015-10-10 50:00:00:00 Halodule wrightii 5170.00 82888683 565 S3T1 2004-10-28 14:20:00 Syringodium filiforme 7233.00 28886803 565 S3T1 2004-10-28 14:20:00 Syringodium filiforme 7233.00 28586863 565 S3T1 2004-10-28 14:00:00 Syringodium filiforme 5533.00 2857390 565 S3T1 2011-10-17 10:21:00 Halodule wrightii 5400.00 2853010 565 S3T1 2011-10-17 10:21:00 Halodule wrightii 5400.00 2853010 565 S3T1 2011-10-17 10:21:00 Syringodium filiforme 7533.00 2857390 565 S3T1 2011-10-17 10:21:00 Syringodium filiforme 6766.70 2878342 565 S3T1 2011-10-17 10:21:00 Syringodium filiforme 6766.70 2878342 565 S3T1 2011-10-17 10:21:00 Syringodium filiforme 6766.70 2878342 565 S3T1 2011-09-20 11:35:00 Halodule wrightii 5400.00 2884653 565 S3T1 2012-09-20 11:35:00 Halodule wrightii 6400.00 2884653 565 S3T7 2003-11-06 11:00:00 Syringodium filiforme 6766.70 2854356 565 S3T7 2003-11-06 11:00:00 Syringodium filiforme 5700.00 2882072 565 S3T7 2004-11-01 11:20:00 Syringodium filiforme 5630.00 2882072 565 S3T8 2012-09-20 13:39:00 Syringodium filiforme 5630.00 2858664 565 S3T8 2012-09-20 13:39:00 Syringodium filiforme 5630.00 2858664 565 S3T8 2012-09-20 13:39:00 Syringodium filiforme 5030.00 2858664 565 S3T8 2012-09-20 13:39:00 Syringodium filiforme 6676.70 450 S377 2004-10-21 14:20 Syringodium filiforme 5030.00 2	868919	564	SG-W3-03-13	2013-09-13 00:00:00	Halodule wrightii	5170.00
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2876835 565 S3T7 2011-10-17 15:38:00 Syringodium filiforme 7000.00 2887690 565 S3T7 2022-08-16 15:12:00 Syringodium filiforme 7200.00 2858076 565 S3T8 2010-10-11 15:31:00 Halodule wrightii 8267.00 2891048 565 S3T8 2012-09-20 12:46:00 Halodule wrightii 5833.30 2861432 565 S3T8 2012-09-20 13:19:00 Syringodium filiforme 6433.30 2882473 565 S4T15 2001-10-18 09:15:00 Halodule wrightii 5500.00 2889339 565 S4T2 2004-10-25 13:42:00 Halodule wrightii 5533.00 2884114 565 S5T5 2006-10-02 14:15:00 Halodule wrightii 5167.00 2885045 565 S5T6 2010-09-27 00:00:00 Halodule wrightii 5367.00 2885046 565 S5T6 2010-09-27 00:00:00 Halodule wrightii 5100.00 2770721 570 GAS01 2006-10-05 00:00:00 Halodule wrightii 5620.00 <t< td=""><td>2874428</td><td>565</td><td>S3T7</td><td>2011-10-17 14:42:00</td><td></td><td>5233.30</td></t<>	2874428	565	S3T7	2011-10-17 14:42:00		5233.30
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2858076 565 S3T8 2010-10-11 15:31:00 Halodule wrightii 8267.00 2891048 565 S3T8 2012-09-20 12:46:00 Halodule wrightii 5833.30 2861432 565 S3T8 2012-09-20 13:19:00 Syringodium filiforme 6433.30 2882473 565 S4T15 2001-10-18 09:15:00 Halodule wrightii 5500.00 2889339 565 S4T2 2004-10-25 13:42:00 Halodule wrightii 5533.00 2884114 565 S5T5 2006-10-02 14:15:00 Halodule wrightii 5167.00 2885045 565 S5T6 2006-10-03 15:34:00 Halodule wrightii 6833.00 2885720 565 S5T6 2010-09-27 00:00:00 Halodule wrightii 5367.00 2885046 565 S5T6 2022-08-22 10:20:00 Halodule wrightii 5100.00 2782176 570 GAS01 2006-10-05 00:00:00 Halodule wrightii 5620.00 2802084 570 GAS01 2010-08-20 00:00:00 Halodule wrightii 7500.00	2887690	565	S3T7	2022-08-16 15:12:00		7200.00
2891048 565 S3T8 2012-09-20 12:46:00 Halodule wrightii 5833.30 2861432 565 S3T8 2012-09-20 13:19:00 Syringodium filiforme 6433.30 2882473 565 S4T15 2001-10-18 09:15:00 Halodule wrightii 5500.00 2889339 565 S4T2 2004-10-25 13:42:00 Halodule wrightii 5533.00 2884114 565 S5T5 2006-10-02 14:15:00 Halodule wrightii 5167.00 2885045 565 S5T6 2006-10-03 15:34:00 Halodule wrightii 6833.00 2885720 565 S5T6 2010-09-27 00:00:00 Halodule wrightii 5367.00 2885046 565 S5T6 2022-08-22 10:20:00 Halodule wrightii 5100.00 2770721 570 GAS01 2006-10-05 00:00:00 Halodule wrightii 5620.00 2802084 570 GAS01 2010-08-20 00:00:00 Halodule wrightii 5260.00 2802081 570 GAS01 2011-08-08 00:00:00 Halodule wrightii 7500.00 2804679 570 GAS01 2012-10-12 00:00:00 Halodule wrightii	2858076	565	S3T8	2010-10-11 15:31:00	-	8267.00
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2791104	570	GAS03	2010-08-03 00:00:00	Halodule wrightii	7520.00
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RowID	ProgramID	ProgramLocationID	SampleDate	CommonIdentifier	ResultValue
2792576	3015	PISCntrl_1	2017-06-26 00:00:00	Halodule wrightii	5250.00
2787958	3015	PISCntrl_1	2017-09-25 00:00:00	Halodule wrightii	5085.00
2789608	3015	PISCntrl_1	2018-06-08 00:00:00	Halodule wrightii	5250.00
2788795	3015	PISCntrl_1	2018-09-17 00:00:00	Halodule wrightii	8100.00
2997515	3015	PISCntrl_1	2019-07-25 00:00:00	Halodule wrightii	21400.00
2804084	3015	PISCntrl_1	2020-06-17 00:00:00	Halodule wrightii	8900.00
2801680	3015	PISCntrl_1	2020-09-24 00:00:00	Halodule wrightii	9200.00
2997516	3015	PISCntrl_1	2021-06-29 00:00:00	Halodule wrightii	7200.00
2801674	3015	PISCntrl_1	2022-06-17 00:00:00	Halodule wrightii	6500.00
2789566	3015	PISCntrl_2	2013-06-25 00:00:00	Halodule wrightii	5400.00
2794189	3015	$PISCntrl_2$	2014-07-30 00:00:00	Halodule wrightii	7550.00
2789568	3015	PISCntrl_2	2014-09-29 00:00:00	Halodule wrightii	7700.00
2789567	3015	PISCntrl_2	2017-09-25 00:00:00	Halodule wrightii	5900.00
2795992	3015	PISCntrl_2	2018-06-08 00:00:00	Halodule wrightii	5200.00
2800766	3015	PISCntrl_2	2018-09-17 00:00:00	Halodule wrightii	6800.00
2789573	3015	PISCntrl_2	2019-07-25 00:00:00	Halodule wrightii	12500.00
2797447	3015	PISCntrl_2	2019-09-06 00:00:00	Halodule wrightii	5800.00
2794195	3015	PISCntrl_2	2020-09-24 00:00:00	Halodule wrightii	7000.00
2804871	3015	PISCntrl_2	2021-06-29 00:00:00	Halodule wrightii	5500.00
2803016	3015	PISCntrl_2	2022-06-17 00:00:00	Halodule wrightii	6400.00
1474237	3017	NB	2017-06-16 00:00:00	Halodule wrightii	6063.00
1477256	3017	NB	2017-06-16 00:00:00	Halophila johnsonii	5088.00
1472592	3017	SB	2017-06-23 00:00:00	Halodule wrightii	9075.00
1478839	3017	SB	2017-06-23 00:00:00	Halodule wrightii	7150.00
2794382	4018	BH29	1995-06-08 00:00:00	Halodule wrightii	10525.00

Programs containing flagged data:

- Western Pinellas County Seagrass Monitoring
- Tampa Bay Seagrass Monitoring
- Charlotte Harbor Seagrass Monitoring
- 3013 Seagrass (SJRWMD)
- SCCF Seagrass Surveys
- 3017 Loxahatchee River District Bi-Monthly Seagrass Monitoring
- Miami-Dade County DERM Benthic Habitat Monitoring Program