# **Tools and Products**

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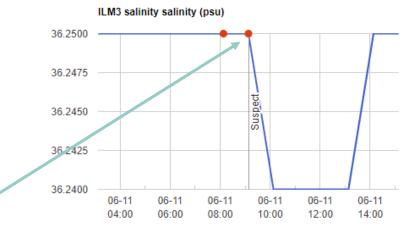


### **Overview of Session**



### **QARTOD** @ CORMP

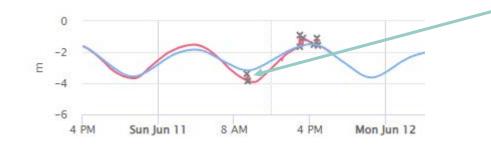
Group 1 Required	Test 1 Test 2	Timing/Gap Test Syntax Test
	Test 3	Location Test
	Test 4	Gross Range Test
	Test 5	Climatology Test
Group 2	Test 6	Spike Test
Strongly	Test 7	Rate of Change Test
Recommended	Test 8	Flat Line Test
Group 3	Test 9	Multi-Variate Test
Suggested	Test 10	Attenuated Signal Test
0000	Test 11	Neighbor or Forecast Test





### **QARTOD** @ SECOORA-WL

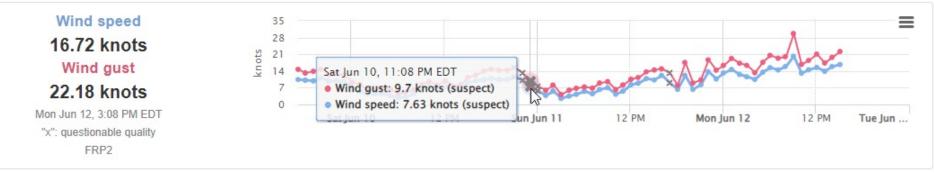
Platform	Parameter	Time (UTC)	Value (m)	Test 1 (Timing)	Test 2 (Syntax)	Test 3 (Location)	Test 4 (Range)	Test 5 (Climatology)	Test 6 (Spike)	Test 7 (Change Rate)	Test 8 (Flat Line)	) Test 9 (Nearest Neighbor)	Rollup
GATECH_KILKENNY_CREEK	water_level	2023-06-11 16:16:28	3 -2.837	14 C	~		~		~	~	¥.	~	? × !
GATECH_KILKENNY_CREEK	water_level	2023-06-11 16:11:20	-2.888		~		<b>\$</b>		4	<u>.</u>		¥	? × !
GATECH_KILKENNY_CREEK	water_level	2023-06-11 16:06:12	-2.944	~	1		2		×.	4	~	0	? × !
GATECH_KILKENNY_CREEK	water_level	2023-06-11 16:00:57	-2.996		4		4		~	4		0	? × !
GATECH_KILKENNY_CREEK	water_level	2023-06-11 15:55:49	-3.052	4	~		4		~	4	4	0	? × !







### **QARTOD Automation:** Public Display



% FRP2	(32.277100 N -80.40	08300 E)			
8					
% FRP2	Wind speed (knots)	0 m (height)			
*					
Time	(America/New_York)	FRP2 Wind speed	(knots)	FRP2 Wind speed	(knots) quality
	2023-06-10 14:08		6.67		good
	2023-06-10 15:08		9.10		good
	2023-06-10 20:08		10.46		good
	2023-06-10 21:08		11.49		suspect
	2023-06-10 22:08		10.10		suspect
	2023-06-10 23:08		7.63		suspect



## **QARTOD Automation:** Nightly Emails

station	parameter_table	parameter_column	depth	number_suspect	percent_suspect
CCUFAU_BAREFOOT_RESORT_SWING_BRIDGE	water_level	water_level	0	(0 / 288)	0%
CCUFAU_CAPE_CANAVERAL_PUBLIC_DOCK	water_level	water_level	0	(2 / 287)	1%
CCUFAU_FAU_MAIN_POND	water_level	water_level	0	(99 / 289)	34% (mostly neareest neighbor)
CCUFAU_FERNANDINA_BEACH_HARBOR_MARINA	water_level	water_level	0	(198 / 284)	70% (mostly spike)
CCUFAU_MCNABB_PARK	water_level	water_level	0	(2 / 288)	1%
CCUFAU_OSPREY_MARINA_2	water_level	water_level	0	(0 / 288)	0%
CCUFAU_POMPANO_FISHING_PIER	water_level	water_level	0	(288 / 288)	100% (mostly range)



### **QARTOD Automation: On-Demand Reports**

#### CORMP Performance Report from 2022-07-01 00:00 EDT to 2022-12-31 23:59 EST

	ILM2				ILM3				
	xferred	on time	not bad	suspect	xferred	on time	not bad	suspect	
Air temperature	96%	96%	100%	4%	100%	100%	100%	0%	
Air pressure	96%	96%	100%	4%	100%	100%	100%	0%	
Wind speed and direction	96%	96%	100%	4%	100%	100%	100%	0%	
Surface temperature	96%	96%	100%	4%	96%	100%	100%	0%	
Surface salinity	96%	96%	100%	10%	96%	100%	100%	6%	
Waves	77%	99%	100%						

xferred	The # of obs transferred divided by the total # of obs the sensor could have reported over this time period.
on time	The % of obs that arrived in the system within 2h of the time of the observation.
not bad	The % of obs that were not marked bad as the CORMP rollup flag.



### **QARTOD Automation: On-Demand Reports**

### SECOORA-WL Data Quality Report

View at Least 15% Suspect View All Suspect

Time period (monthly):

2023-06-01 - 2023-06-30

Station	# Suspect	# Total	% Suspect	"Mostly" Test	🕴 Min Date	Max Date	$\stackrel{\wedge}{=}$
CCUFAU_FAU_MAIN_POND	596	3674	16	spike	2023-06-01	2023-06-12	
CCUFAU_FERNANDINA_BEACH_HARBOR_MARINA	946	3552	27	spike	2023-06-01	2023-06-12	
CCUFAU_POMPANO_FISHING_PIER	3262	3541	92	range	2023-06-01	2023-06-12	
FIU_HOLLYWOOD_BEACH	2474	2919	85	timing	2023-06-01	2023-06-12	
GATECH_DIAMOND_CAUSEWAY_AT_SHIPYARD_CREEK	756	3119	24	spike	2023-06-01	2023-06-12	
GATECH_FAYE_DRIVE_ON_BURNSIDE_ISLAND	894	3160	28	spike	2023-06-01	2023-06-12	



Water Levels in the Southeast June 13-15, 2023

Excel

Search:

### Challenges

- Keeping up with rollup flags
- Keeping ranges up-to-date

#### Climatology Ranges

Platform	Parameter	From (± 1 day)	To (± 1 day)	Min (deg F)	Max (deg F)
ILM2	surface_water_temperature	Jan 01	May 01	45	72
ILM2	surface_water_temperature	May 02	Nov 01	45	89
ILM2	surface_water_temperature	Nov 02	Jan 01	45	72

#### Sensor Ranges

Sensor	Sensor Min (deg F)	Sensor Max (deg F)	User Min (deg F)	User Max (deg F)	Spike Threshold Low (deg F)	Spike Threshold High (deg F)	STDEV Threshold	Flatline Threshold (# obs)
surface_water_temperature	23	95	39.2	89.6	33.8	37.4	3	4

