

Florida Keys National Marine Sanctuary

SEACAR Water Quality Analysis

Last compiled on 06 March, 2025

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Indicators

Nutrients

Total Nitrogen - Discrete

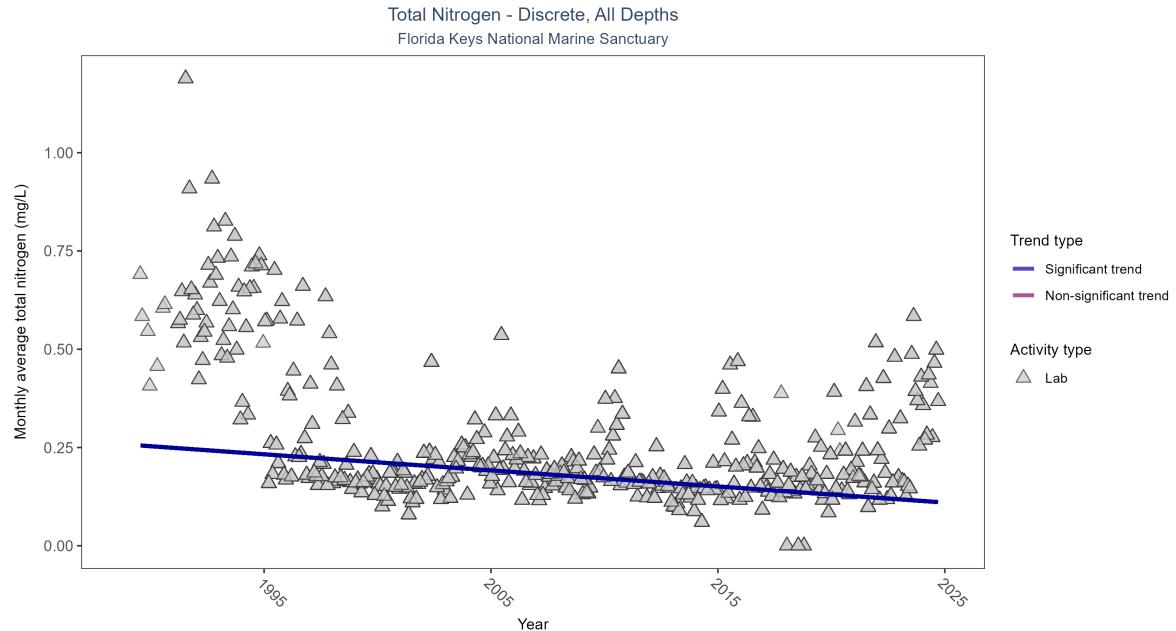
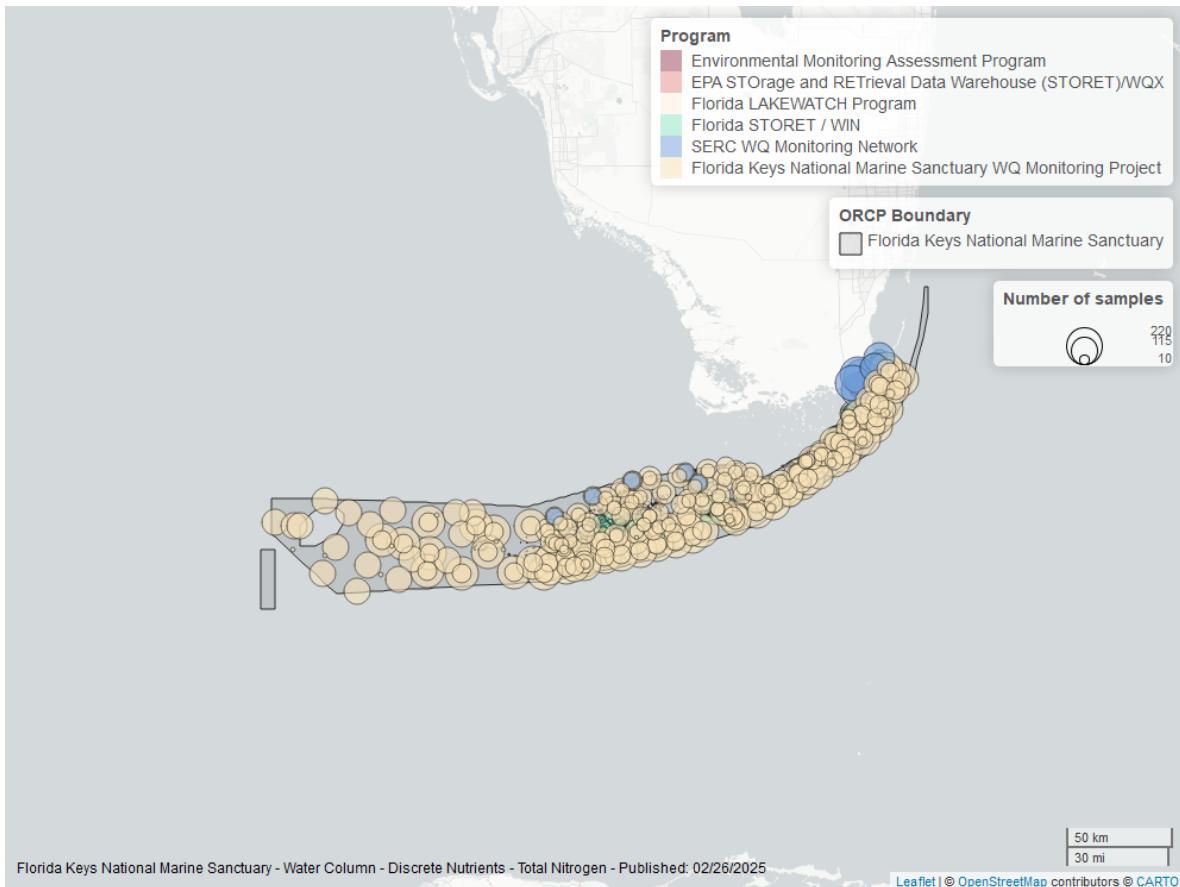


Table 1: Seasonal Kendall-Tau Results for - Total Nitrogen

Activity Type	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
Lab	Significantly decreasing trend	34563	36	1989 - 2024	0.14593	-0.2655	0.25733	-0.00409	0.0000



Total Phosphorus - Discrete

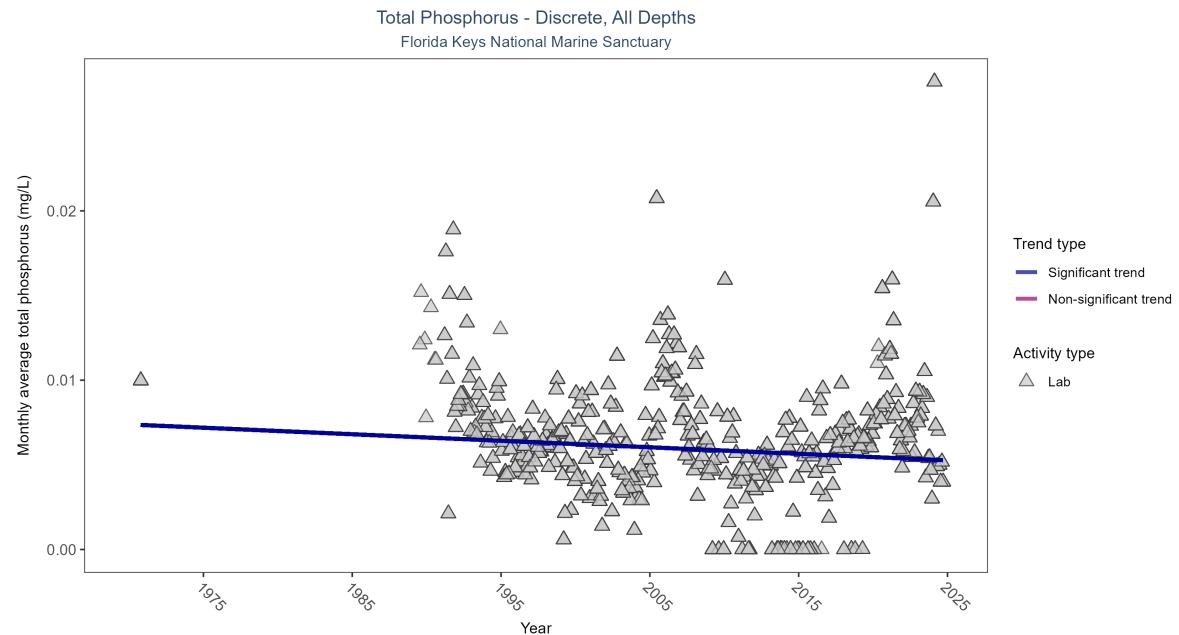
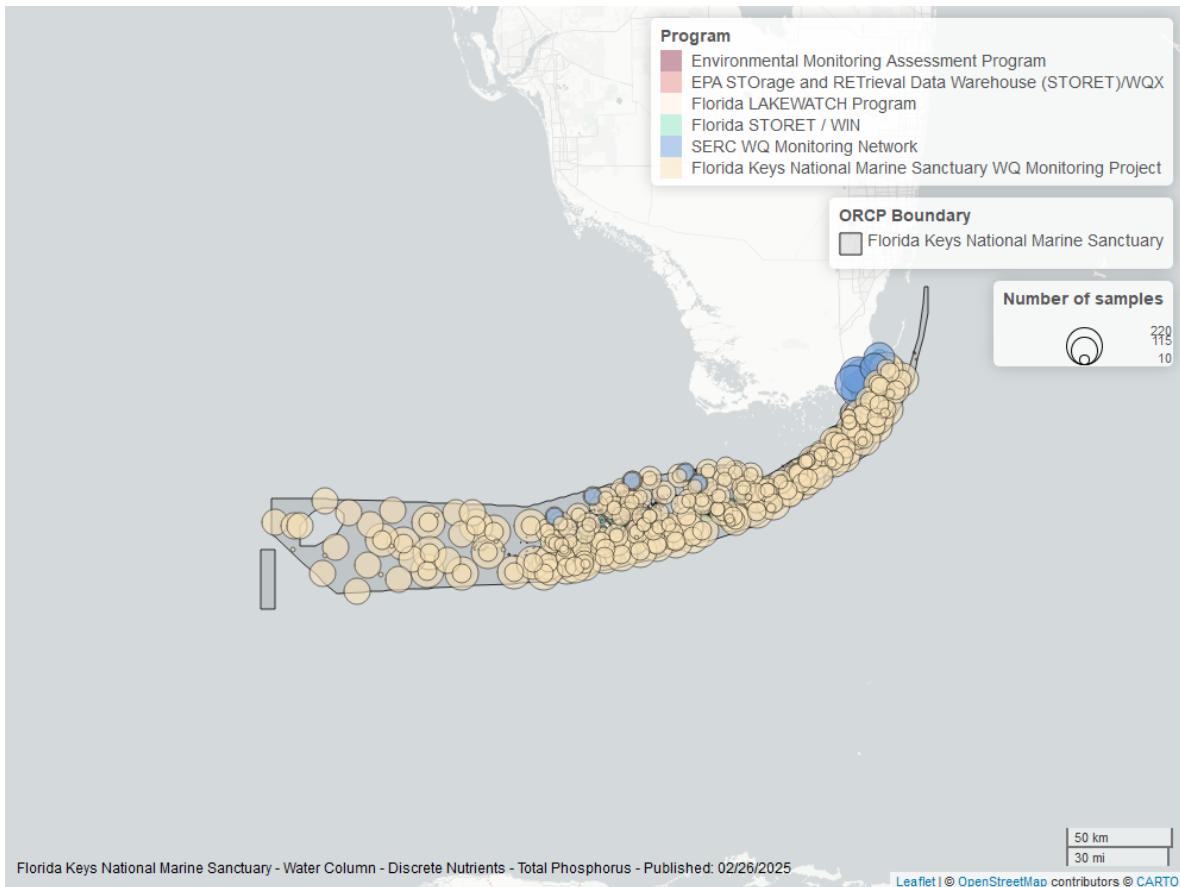


Table 2: Seasonal Kendall-Tau Results for - Total Phosphorus

Activity Type	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
Lab	Significantly decreasing trend	32274	37	1970 - 2024	0.00589	-0.0894	0.00738	-0.00004	0.0104



Water Quality

Dissolved Oxygen - Discrete

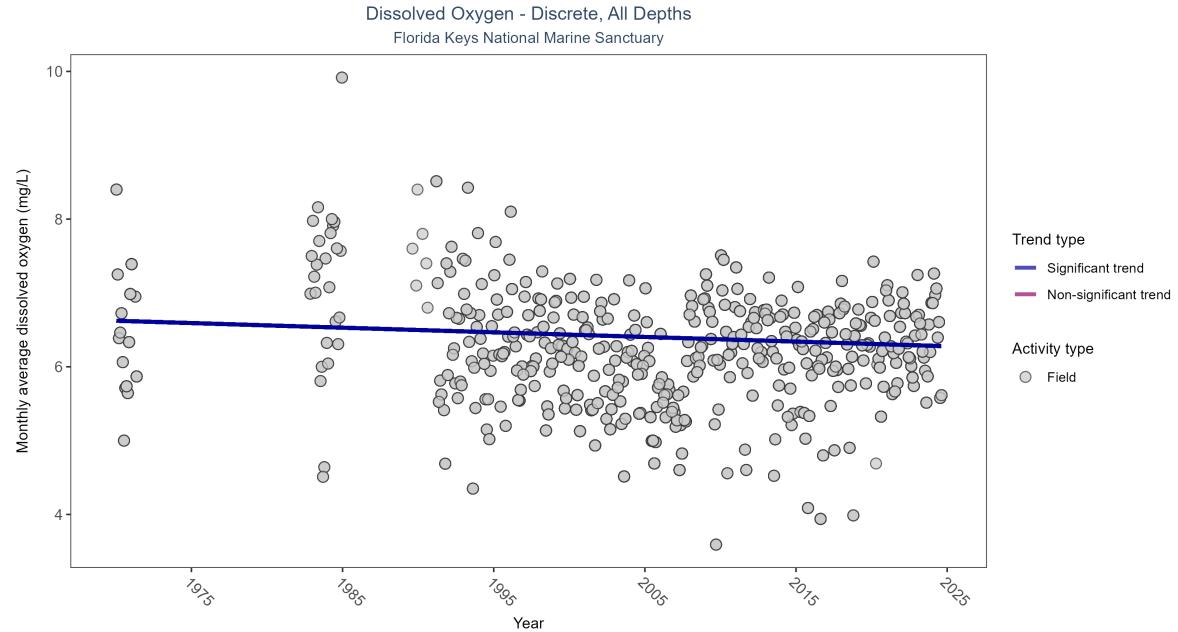
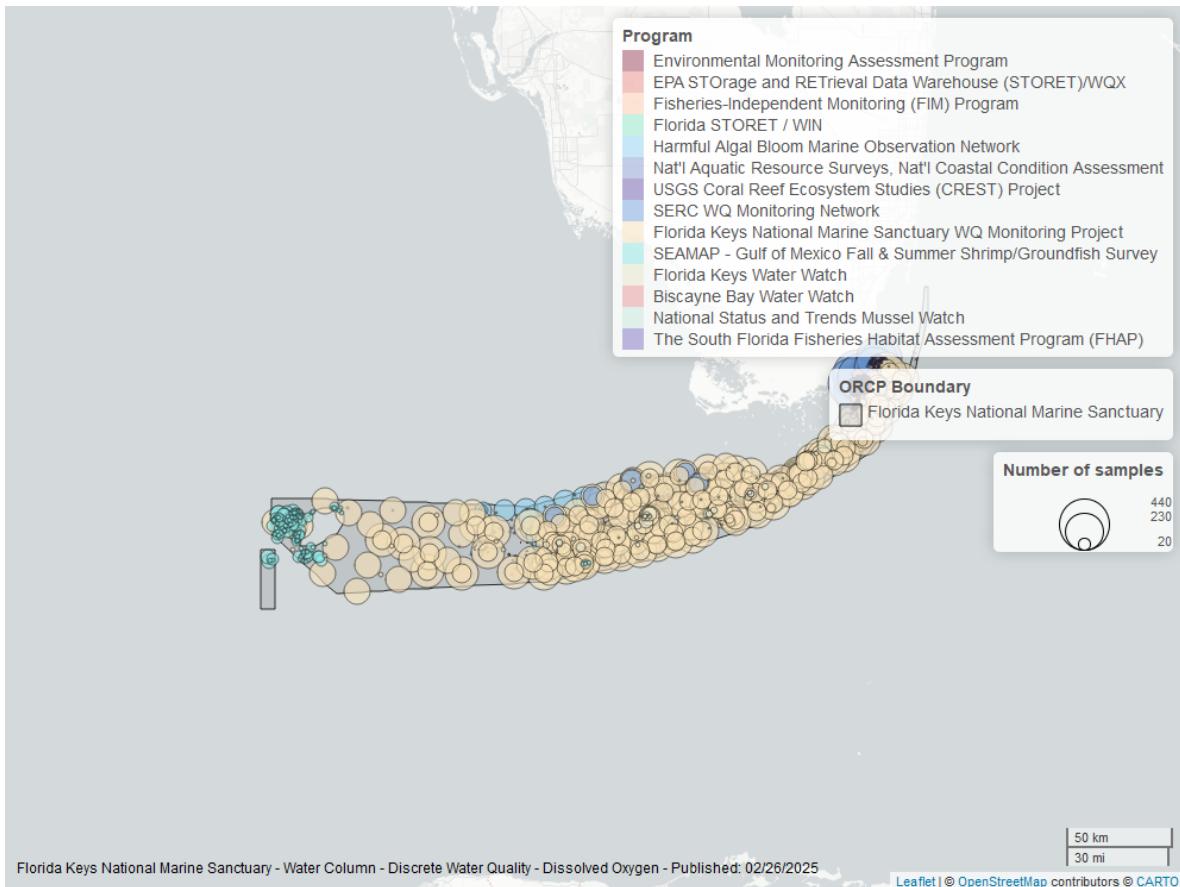


Table 3: Seasonal Kendall-Tau Results for - Dissolved Oxygen

Activity Type	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
Field	Significantly decreasing trend	47232	41	1970 - 2024	6.3	-0.0912	6.62346	-0.00628	0.0051



Dissolved Oxygen - Continuous

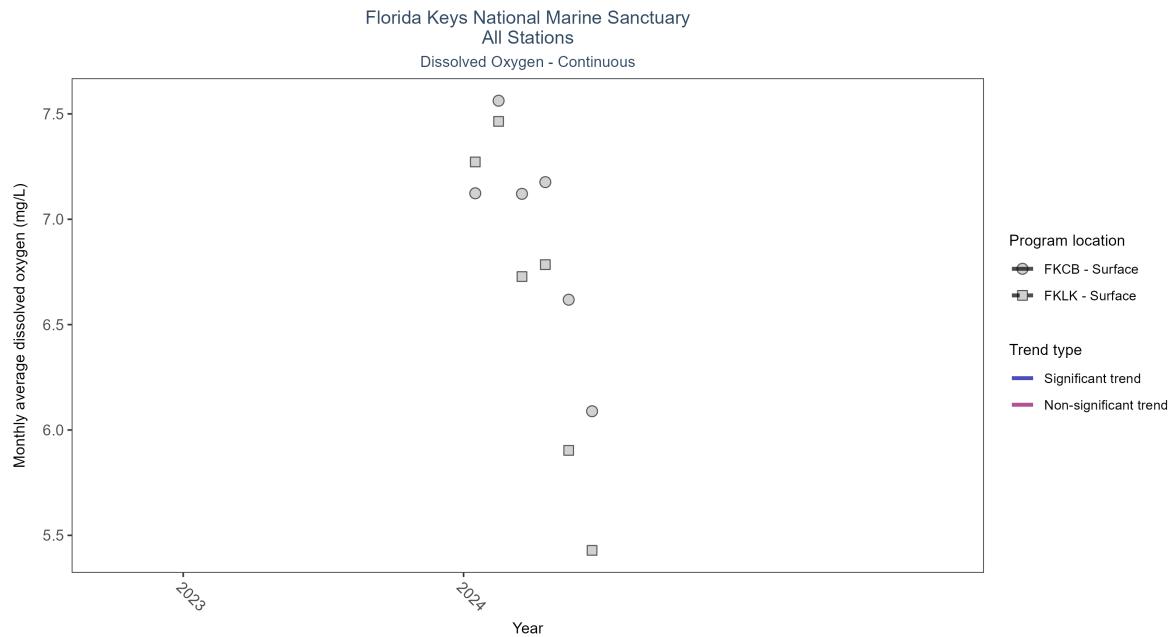
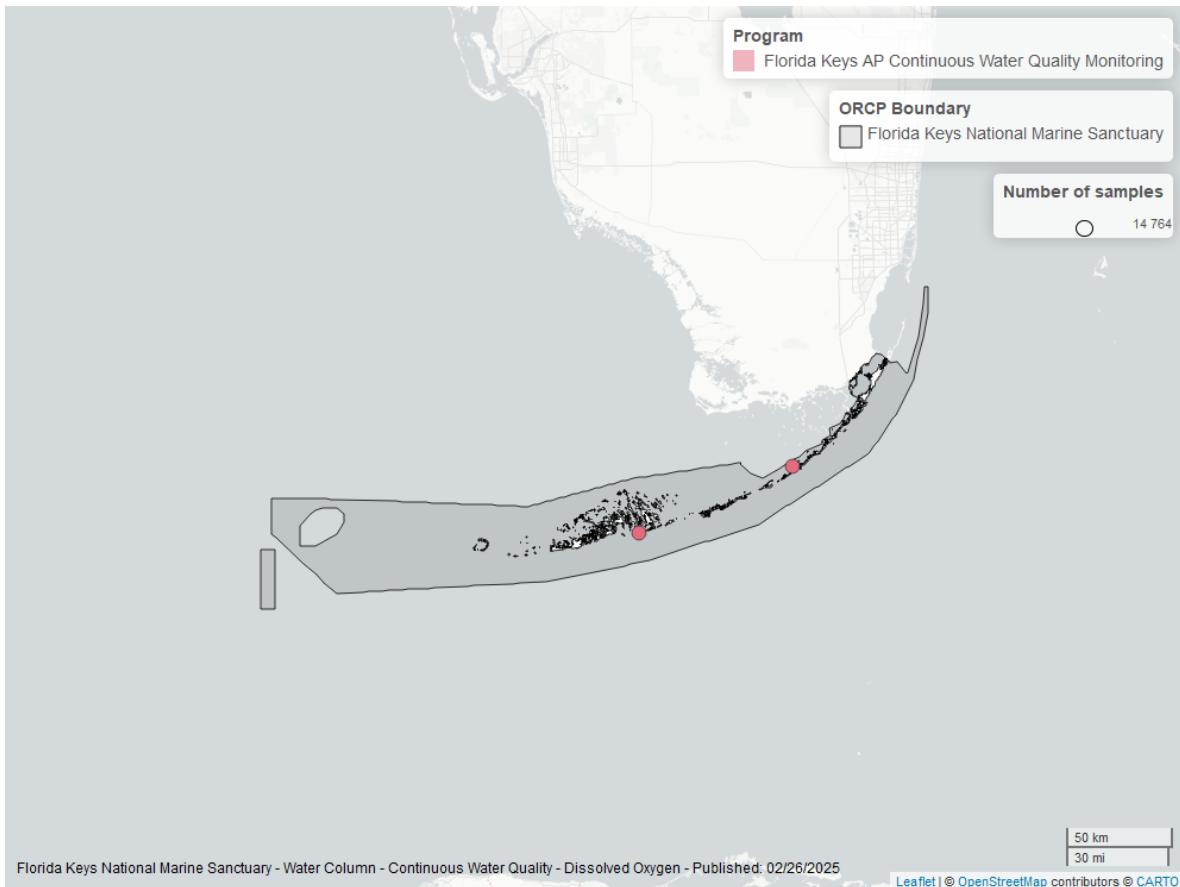


Table 4: Seasonal Kendall-Tau Results for All Stations - Dissolved Oxygen

Program Location	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
FKCB	Insufficient data to calculate trend	14196	1	2024 - 2024	6.9	-	-	-	NA
FKLK	Insufficient data to calculate trend	14764	1	2024 - 2024	6.4	-	-	-	NA



Dissolved Oxygen Saturation - Discrete

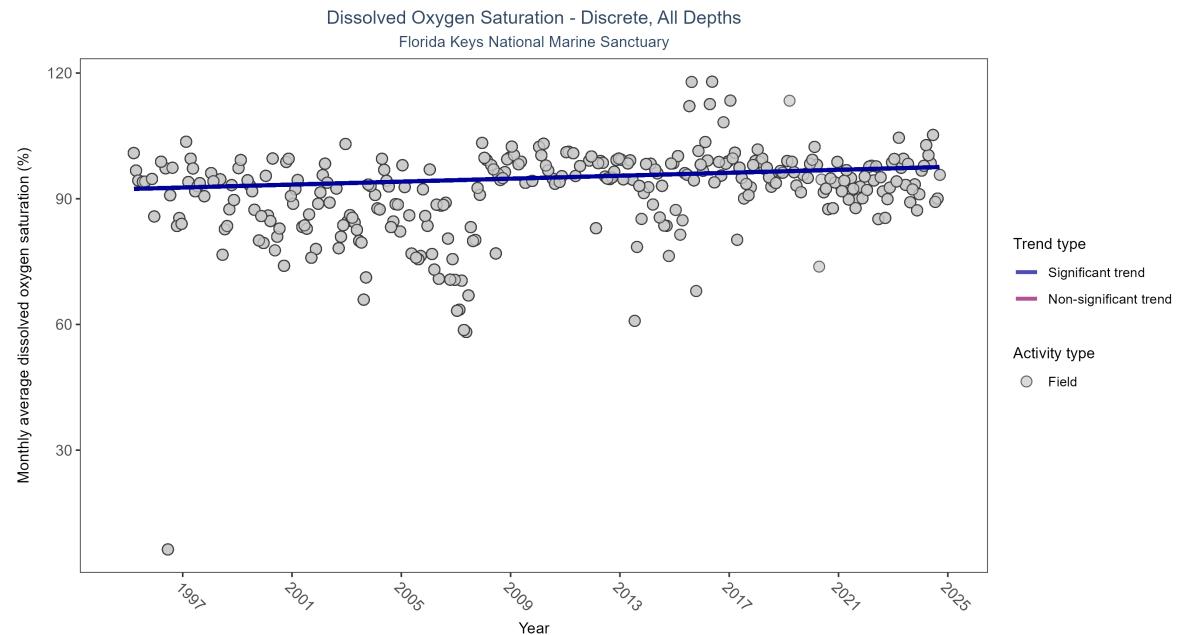
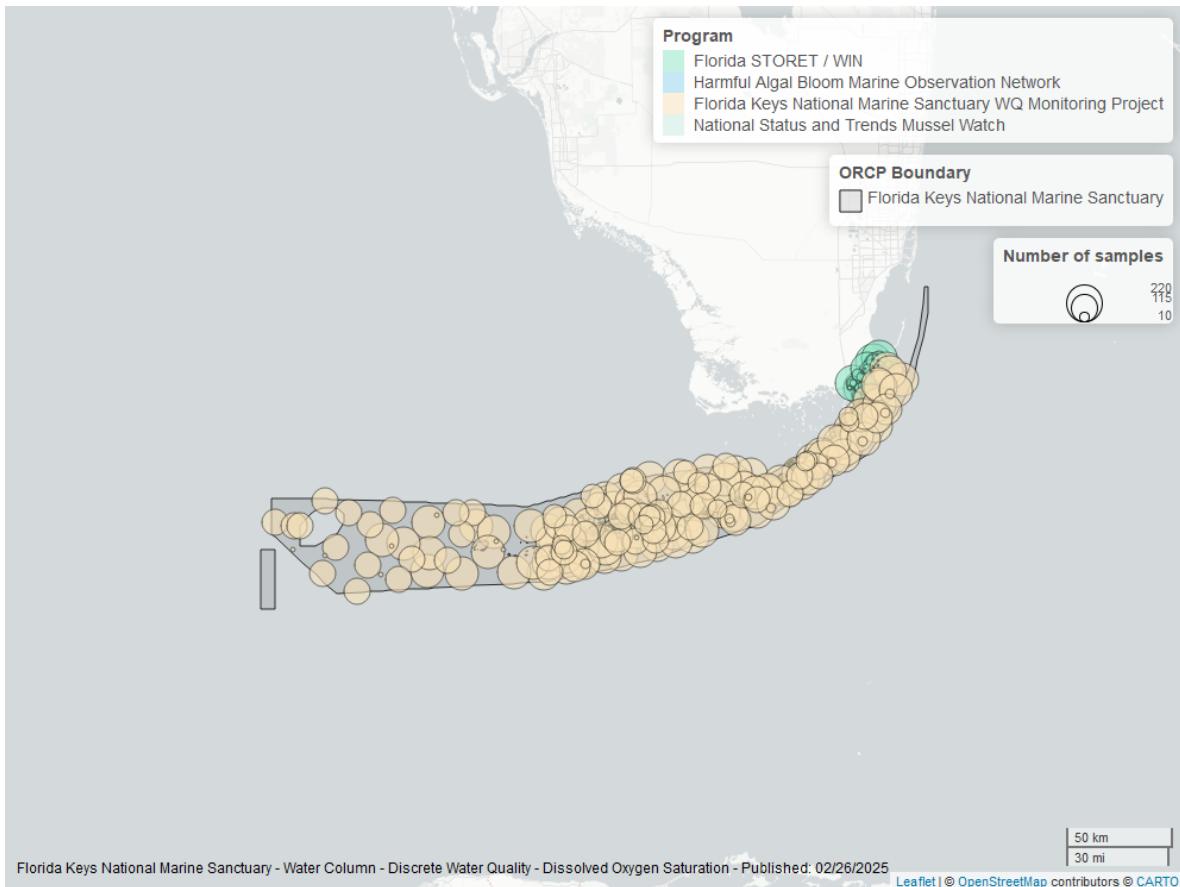


Table 5: Seasonal Kendall-Tau Results for - Dissolved Oxygen Saturation

Activity Type	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
Field	Significantly increasing trend	29278	30	1995 - 2024	94.77338	0.1878	92.32373	0.17625	0.0000



Dissolved Oxygen Saturation - Continuous

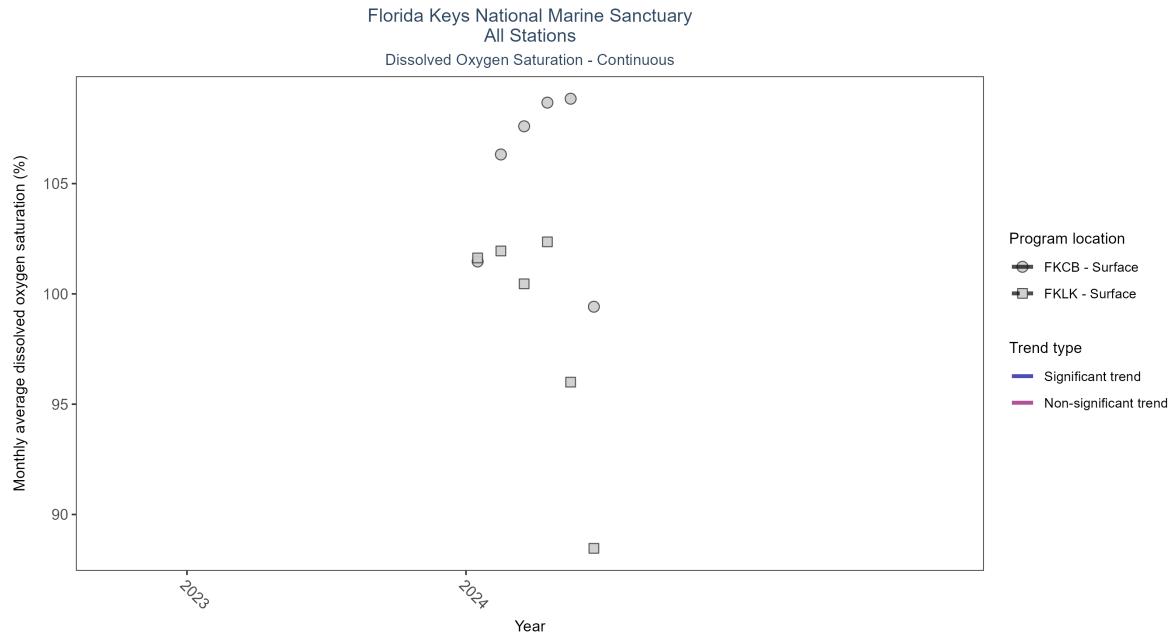


Table 6: Seasonal Kendall-Tau Results for All Stations - Dissolved Oxygen Saturation



Salinity - Discrete

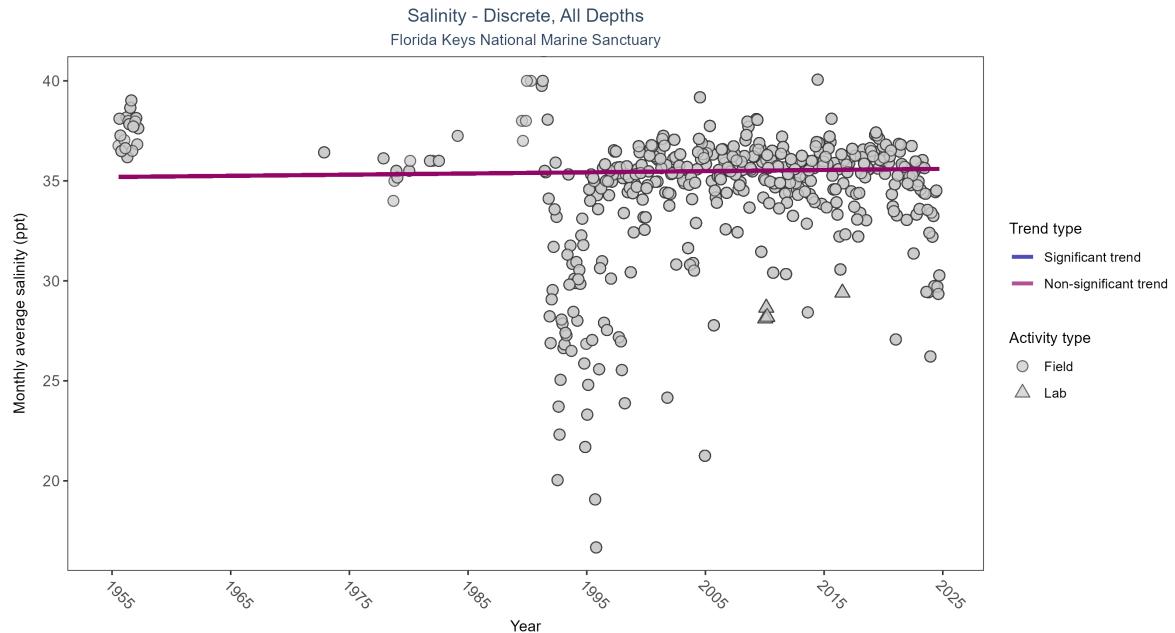
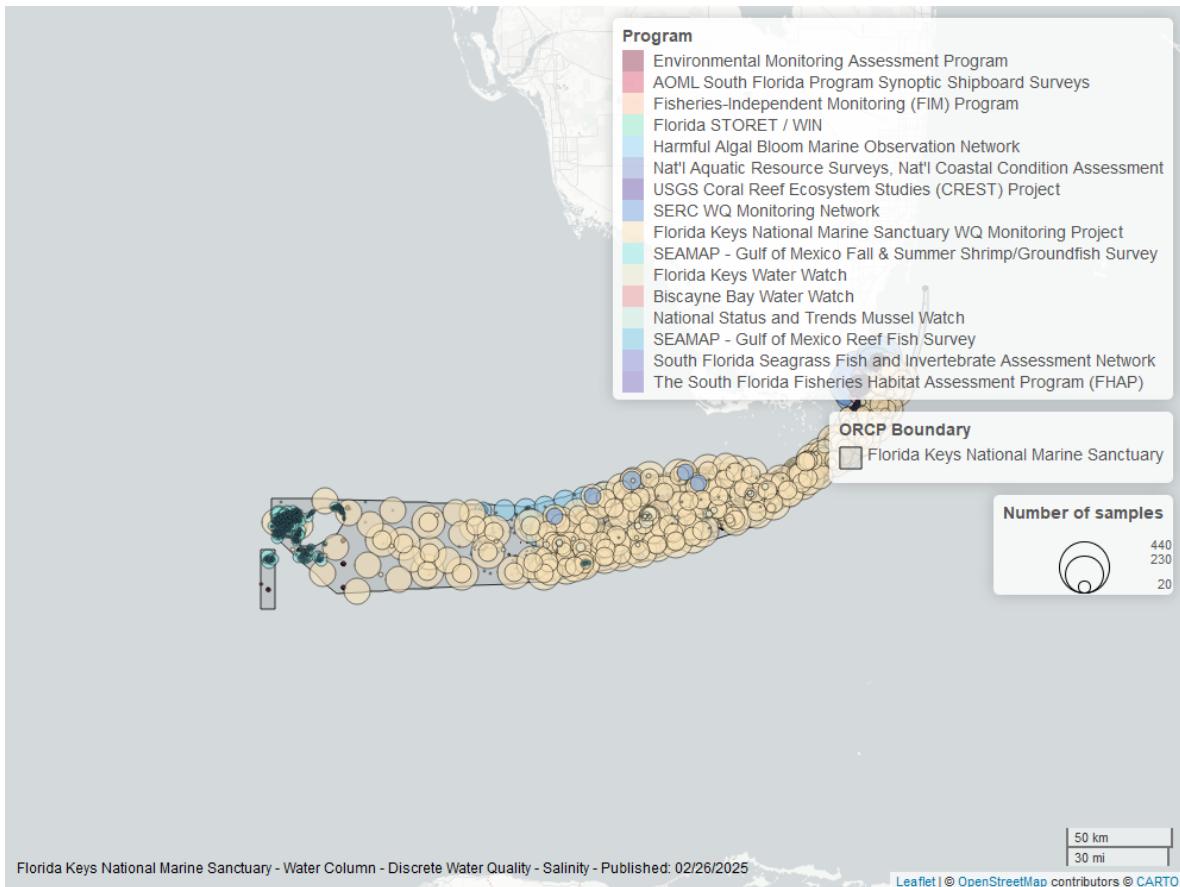


Table 7: Seasonal Kendall-Tau Results for - Salinity

Activity Type	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
All	No significant trend	54396	47	1955 - 2024	36.196	0.0225	35.19341	0.00583	0.5258



Salinity - Continuous

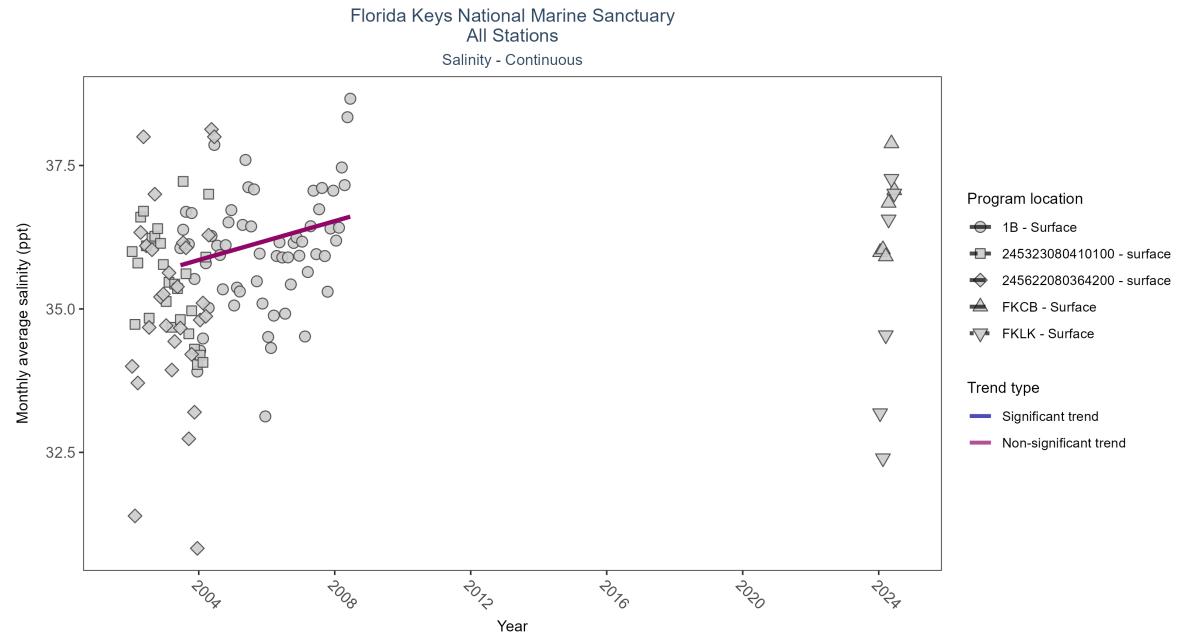
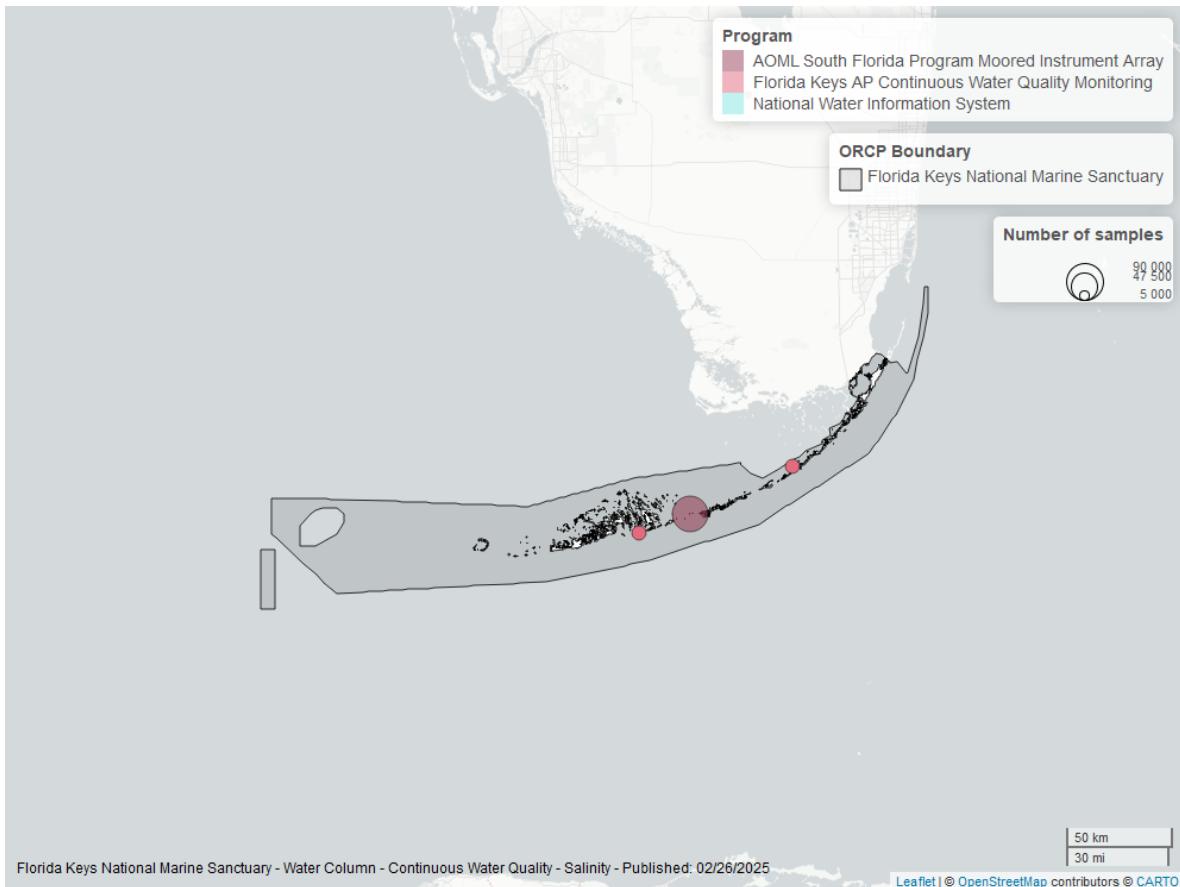


Table 8: Seasonal Kendall-Tau Results for All Stations - Salinity

Program Location	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
1B	No significant trend	86204	6	2003 - 2008	36.07	0.24	35.68	0.17	0.0543
245622080364200	Insufficient data to calculate trend	764	3	2002 - 2004	35.00	-	-	-	NA
245323080410100	Insufficient data to calculate trend	746	3	2002 - 2004	35.00	-	-	-	NA
FKLK	Insufficient data to calculate trend	14756	1	2024 - 2024	36.00	-	-	-	NA
FKCB	Insufficient data to calculate trend	14192	1	2024 - 2024	36.40	-	-	-	NA



Water Temperature - Discrete

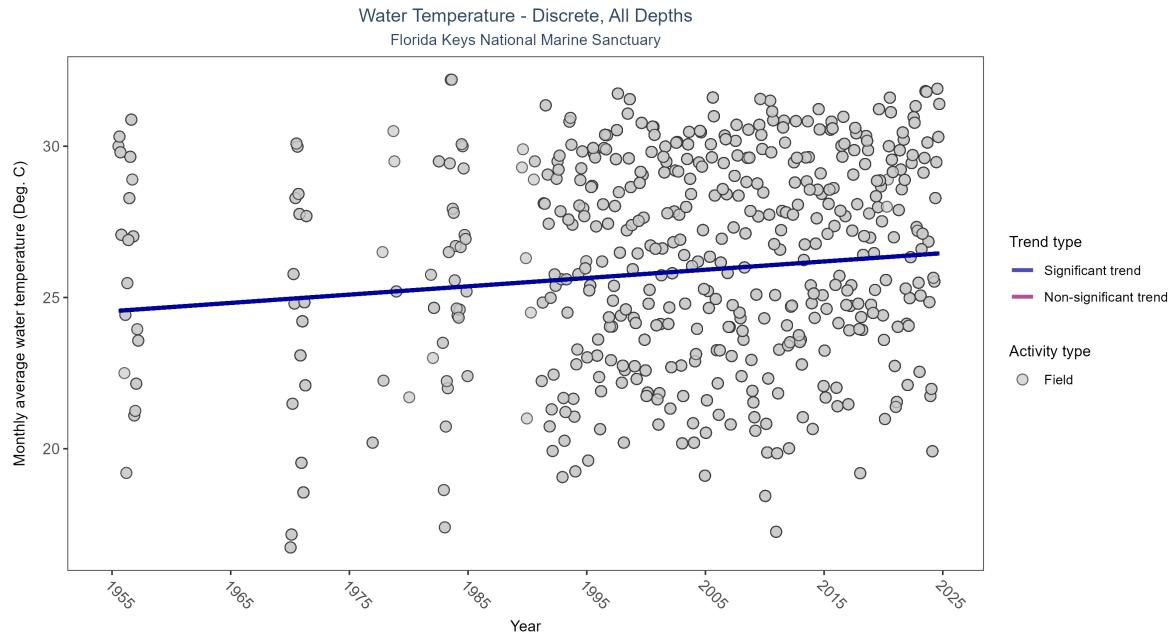
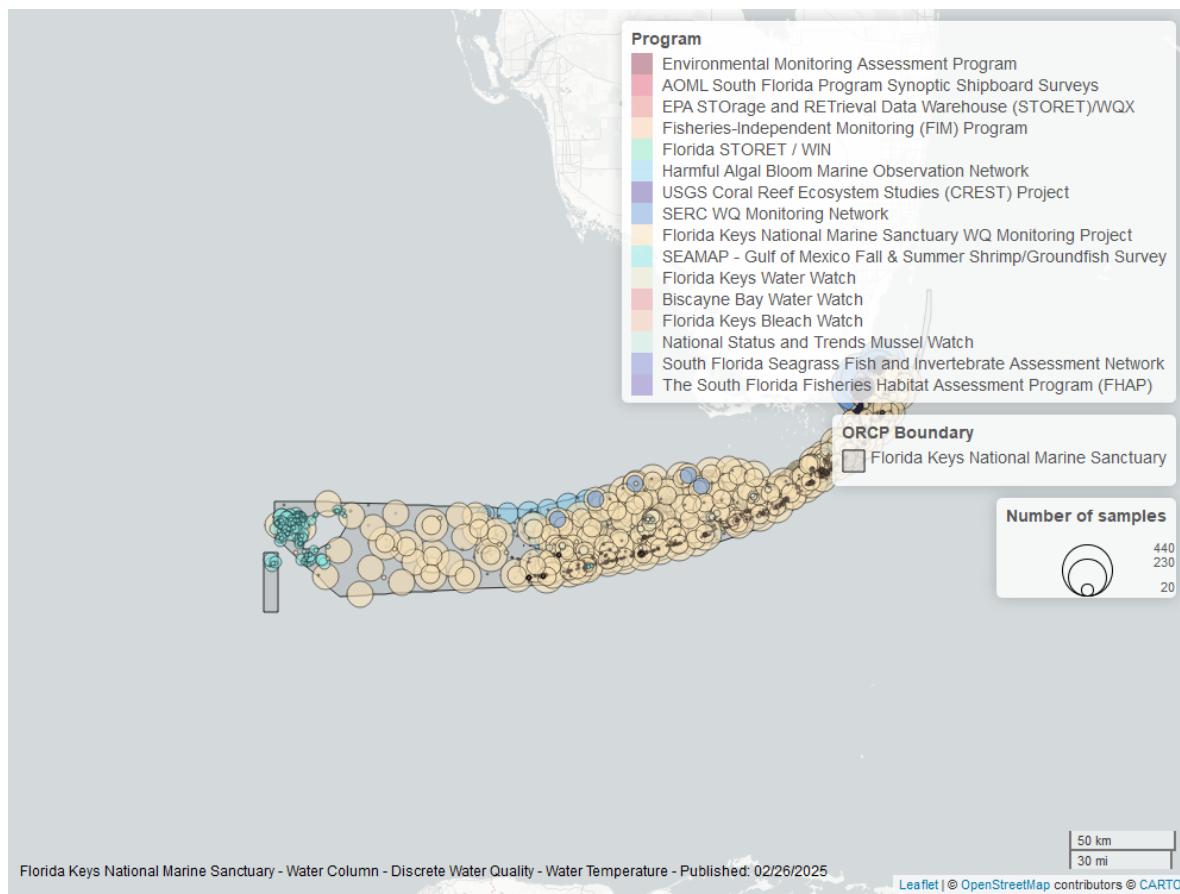


Table 9: Seasonal Kendall-Tau Results for - Water Temperature

Activity Type	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
Field	Significantly increasing trend	51933	49	1955 - 2024	27.1796	0.2233	24.5463	0.02741	0.0000



Water Temperature - Continuous

Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program
Moored Instrument Array - 2

Florida Keys National Marine Sanctuary
 Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Moored Instrument Array
 ProgramID: 2
 Water Temperature - Continuous

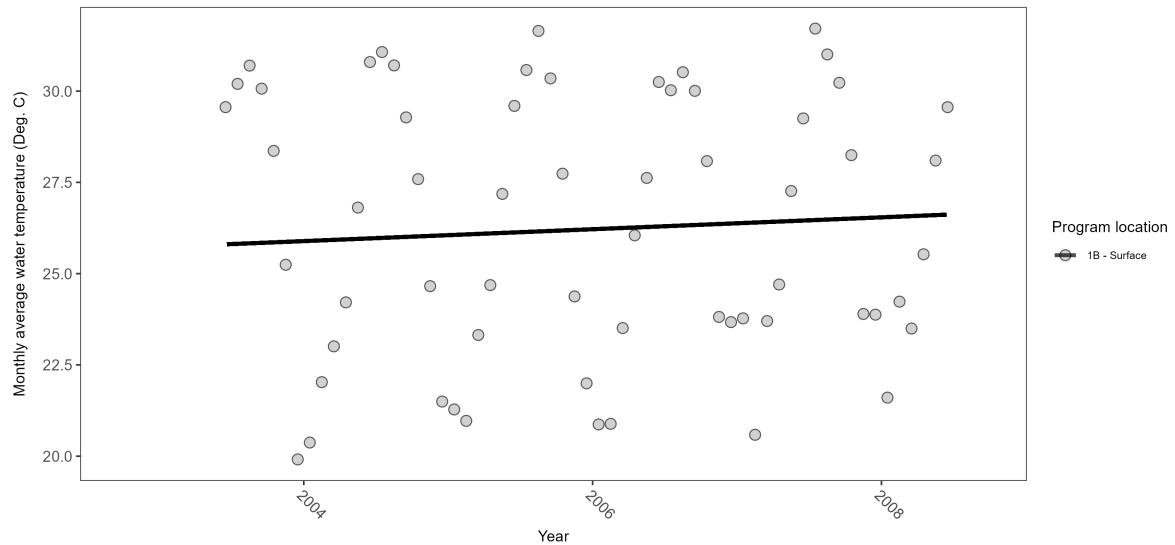
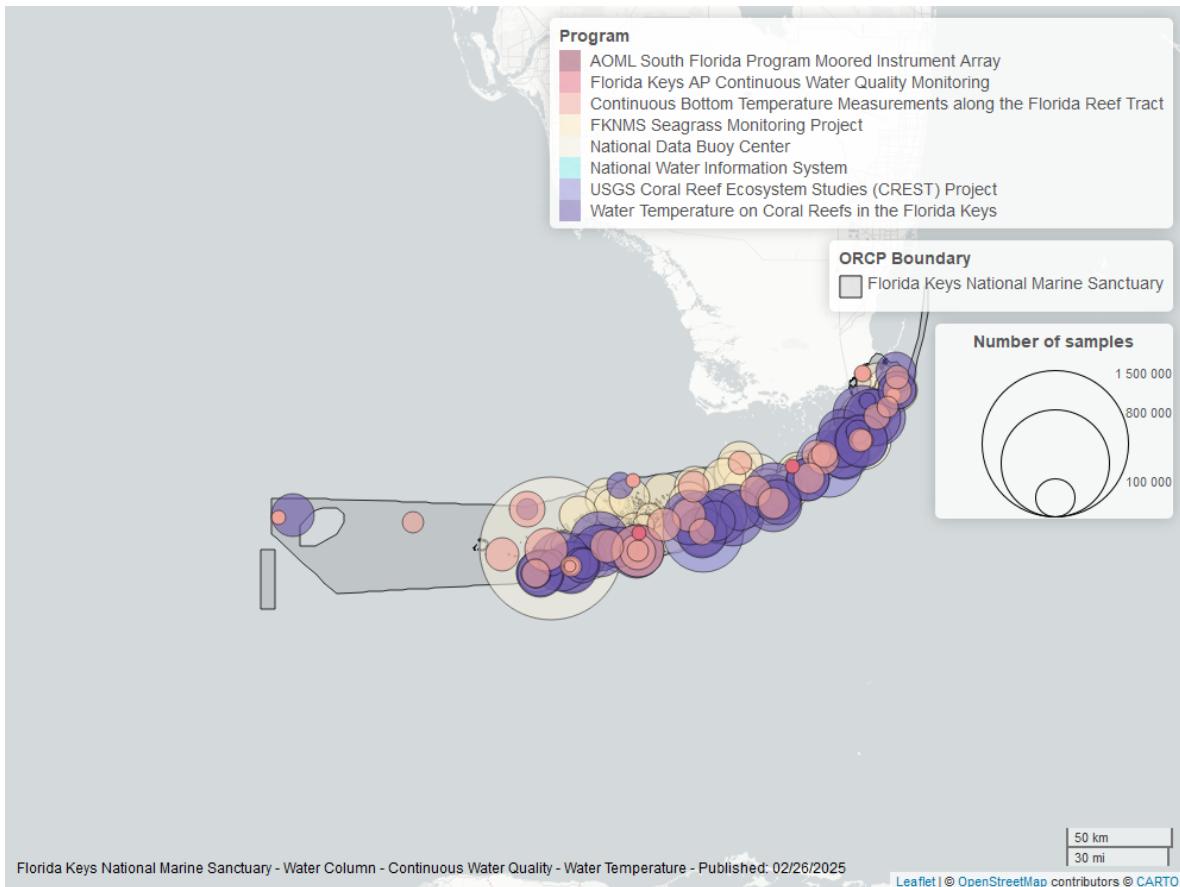


Table 10: Seasonal Kendall-Tau Results for All Stations - Water Temperature

Program Location	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
1B	Significantly increasing trend	86204	6	2003 - 2008	26.38	0.26	25.73	0.16	0.0392



National Data Buoy Center - 5

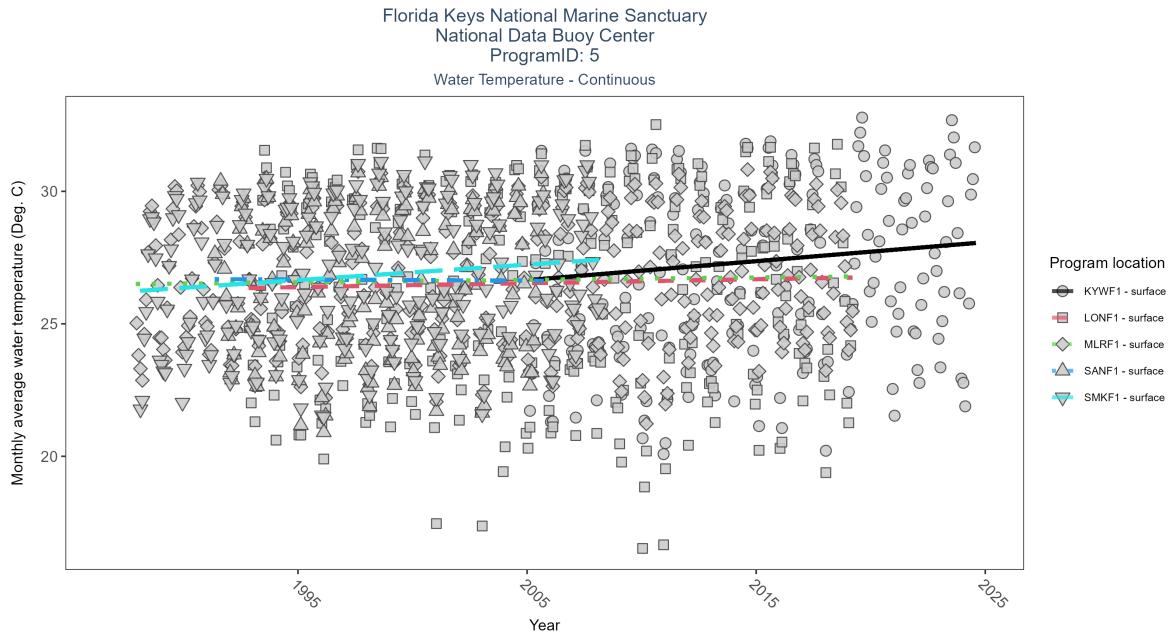
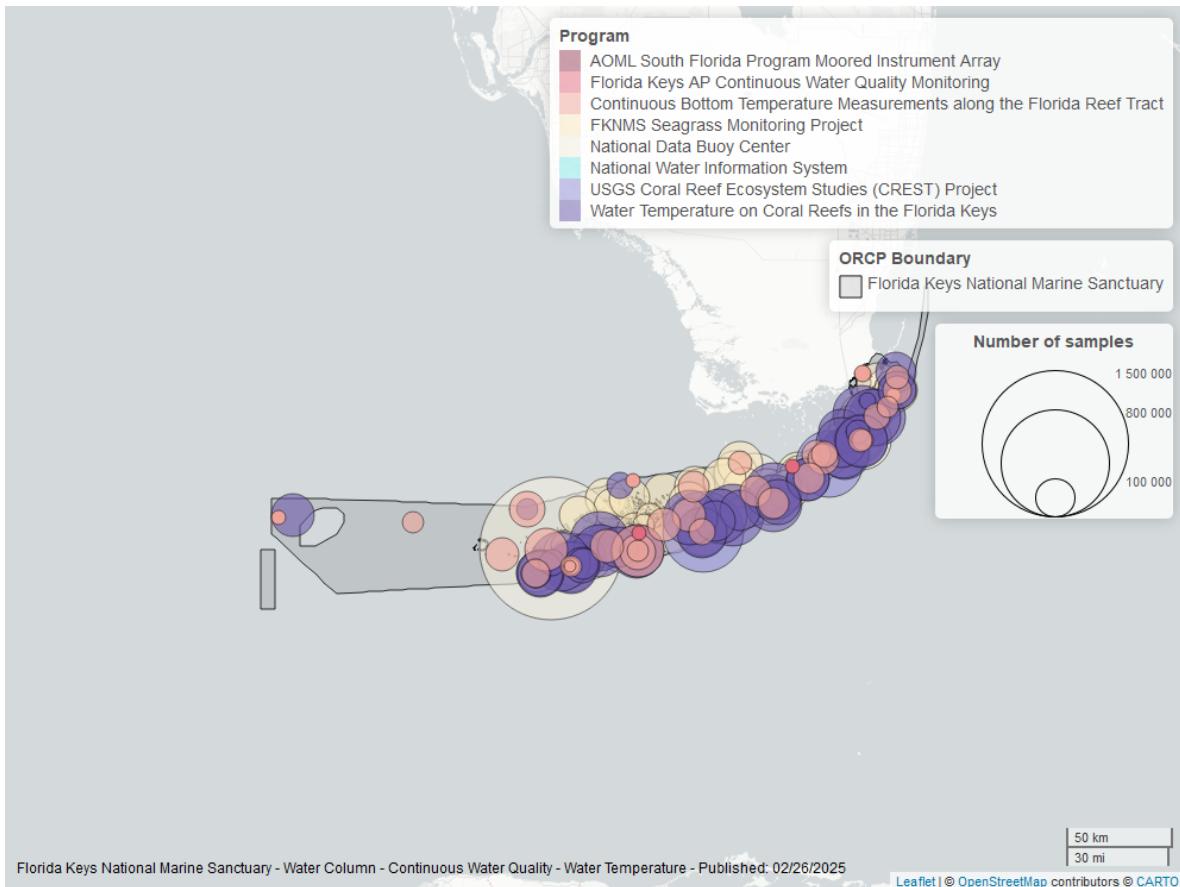


Table 11: Seasonal Kendall-Tau Results for All Stations - Water Temperature

Program Location	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
KYWF1	Significantly increasing trend	1441302	20	2005 - 2024	27.6	0.31	26.65	0.07	0.0000
LONF1	No significant trend	205971	28	1992 - 2019	26.6	0.07	26.34	0.01	0.0825
SMKF1	Significantly increasing trend	154326	21	1988 - 2008	26.8	0.34	26.24	0.06	0.0000
MLRF1	Significantly increasing trend	256798	33	1987 - 2019	26.5	0.10	26.49	0.01	0.0043
SANF1	No significant trend	117833	15	1991 - 2005	26.7	-0.03	26.69	0.00	0.6199



National Water Information System - 7

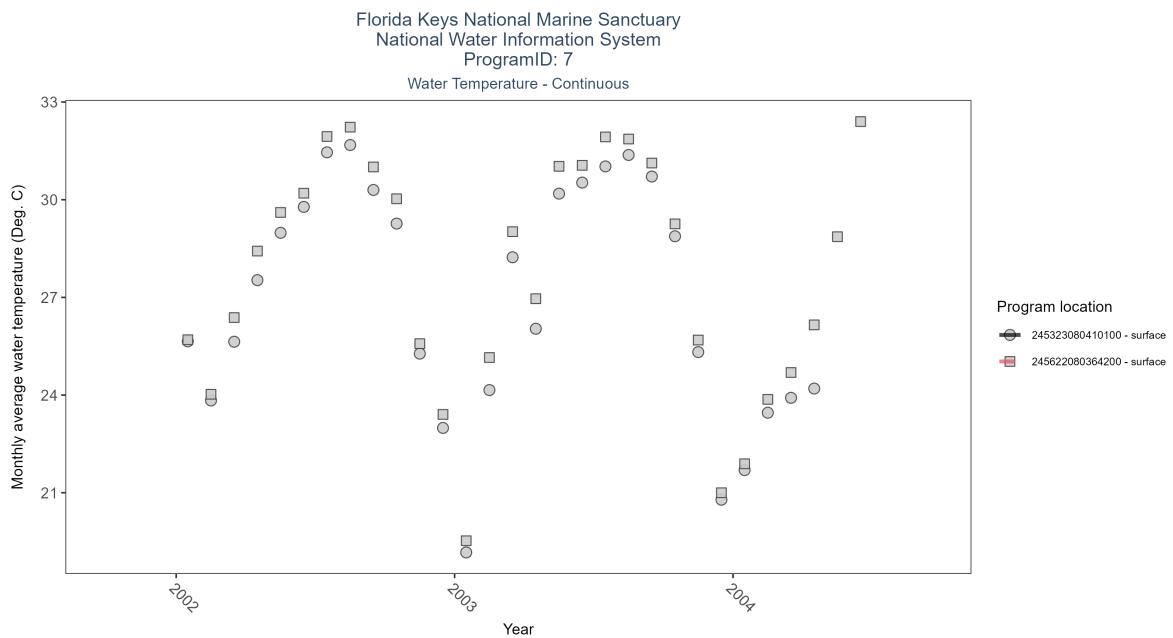
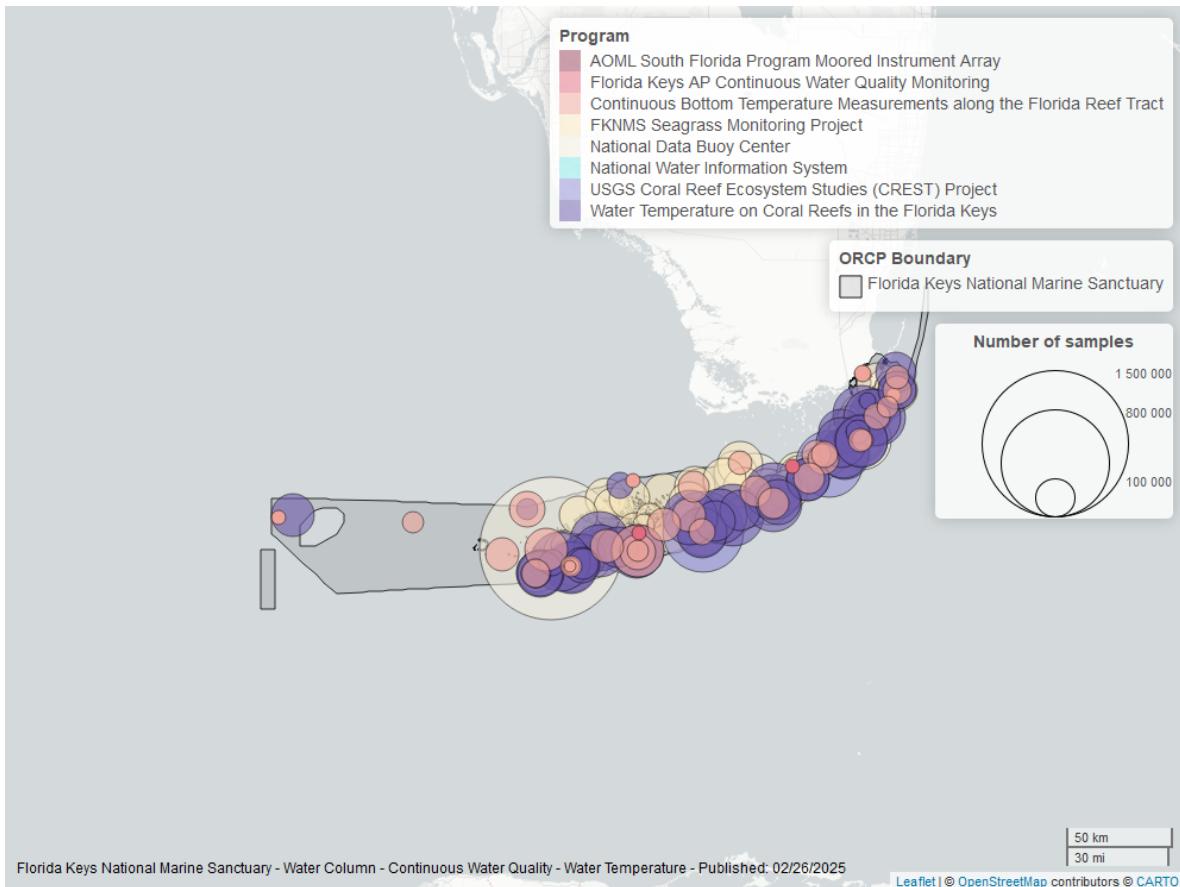


Table 12: Seasonal Kendall-Tau Results for All Stations - Water Temperature

Program Location	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
245622080364200	Insufficient data to calculate trend	853	3	2002 - 2004	28.3	-	-	-	NA
245323080410100	Insufficient data to calculate trend	791	3	2002 - 2004	27.9	-	-	-	NA



Florida Keys National Marine Sanctuary Seagrass Monitoring Project - 296

Florida Keys National Marine Sanctuary
 Florida Keys National Marine Sanctuary Seagrass Monitoring Project
 ProgramID: 296
 Water Temperature - Continuous

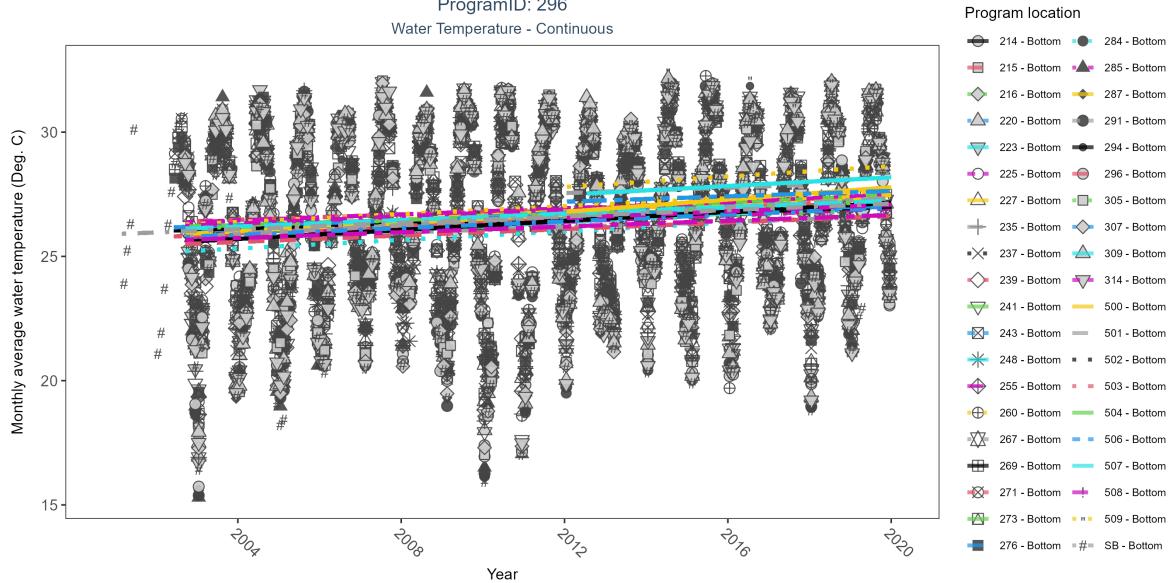
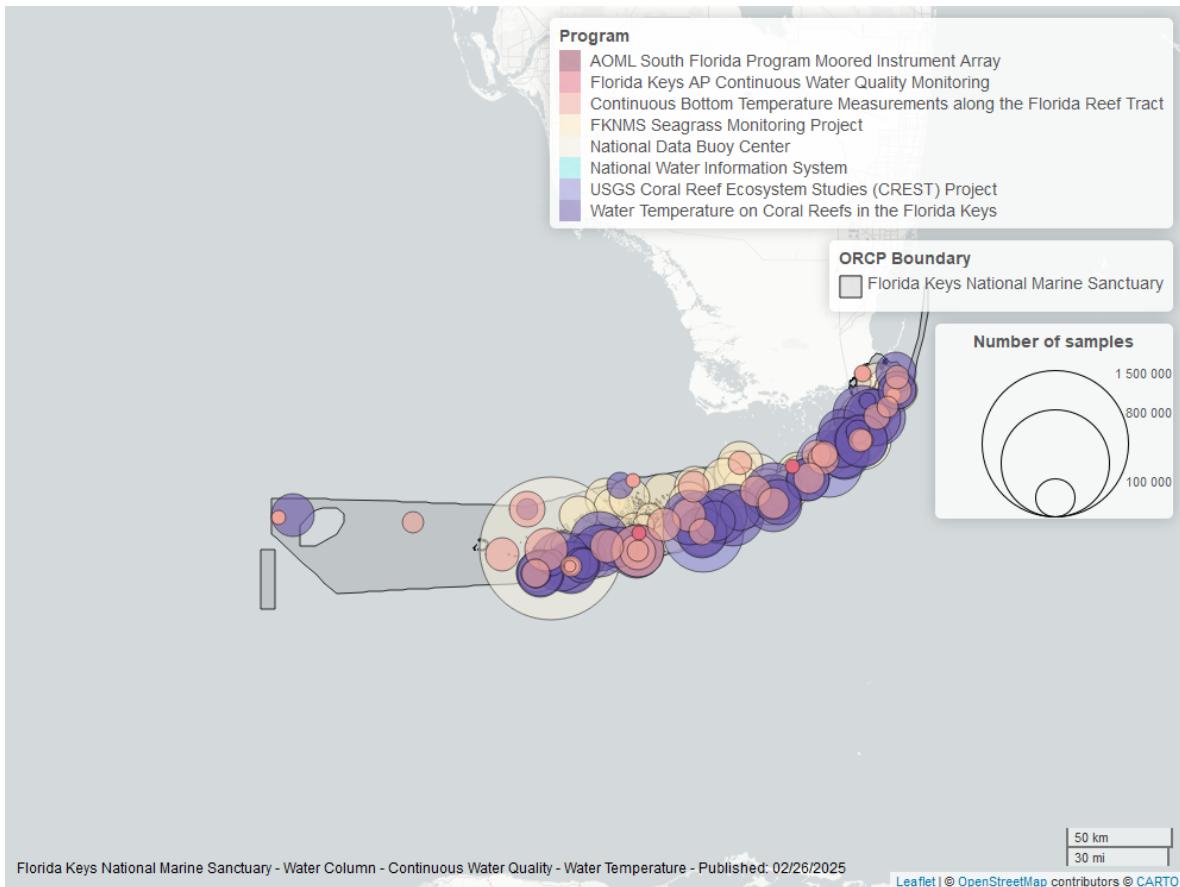


Table 13: Seasonal Kendall-Tau Results for All Stations - Water Temperature

Program Location	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
502	Insufficient data to calculate trend	22765	4	2016 - 2019	26.70	-	-	-	NA
267	Significantly increasing trend	99735	18	2002 - 2019	26.57	0.24	25.64	0.05	0.0002
284	Significantly increasing trend	123977	17	2002 - 2019	26.86	0.28	25.14	0.09	0.0000
305	Significantly increasing trend	122296	18	2002 - 2019	26.43	0.22	26.07	0.06	0.0001
SB	Significantly increasing trend	145514	19	2001 - 2019	26.34	0.23	25.9	0.06	0.0000
223	Significantly increasing trend	133082	18	2002 - 2019	26.89	0.3	25.84	0.08	0.0000
241	Significantly increasing trend	127914	18	2002 - 2019	27.26	0.27	25.91	0.09	0.0000
307	Significantly increasing trend	110802	17	2002 - 2019	26.74	0.22	25.73	0.07	0.0003
248	Significantly increasing trend	111702	18	2002 - 2019	26.79	0.31	25.54	0.08	0.0000
285	Significantly increasing trend	121423	18	2002 - 2019	26.86	0.25	26.17	0.07	0.0000
214	Significantly increasing trend	136333	18	2002 - 2019	26.52	0.27	25.84	0.07	0.0000
235	Significantly increasing trend	128499	18	2002 - 2019	27.14	0.28	25.77	0.08	0.0000
296	Significantly increasing trend	114497	17	2002 - 2019	27.36	0.21	25.45	0.07	0.0002
314	Significantly increasing trend	110686	18	2002 - 2019	27.41	0.23	25.63	0.06	0.0002
291	Significantly increasing trend	116240	18	2002 - 2019	26.38	0.26	25.72	0.09	0.0000
287	Significantly increasing trend	133008	18	2002 - 2019	26.87	0.29	25.84	0.08	0.0000
271	Significantly increasing trend	133627	18	2002 - 2019	26.92	0.26	25.77	0.07	0.0000
260	Significantly increasing trend	97832	16	2002 - 2019	27.07	0.28	26.22	0.08	0.0000
500	Significantly increasing trend	69048	8	2012 - 2019	27.33	0.23	26.79	0.12	0.0074
273	Significantly increasing trend	129817	18	2002 - 2019	27.16	0.24	26.16	0.05	0.0000
225	Significantly increasing trend	117692	17	2002 - 2019	26.82	0.32	26.32	0.06	0.0000
237	Significantly increasing trend	122250	18	2002 - 2019	26.38	0.31	25.74	0.09	0.0000
243	Significantly increasing trend	121593	18	2002 - 2019	26.62	0.3	26	0.07	0.0000
507	No significant trend	47517	8	2012 - 2019	27.36	0.18	27.48	0.09	0.1213
220	Significantly increasing trend	126033	17	2003 - 2019	26.52	0.25	25.94	0.06	0.0000
227	Significantly increasing trend	105351	17	2003 - 2019	26.67	0.29	26.06	0.08	0.0000
309	Significantly increasing trend	107410	18	2002 - 2019	27.85	0.27	26.07	0.06	0.0000
276	Significantly increasing trend	123833	18	2002 - 2019	26.87	0.21	26.15	0.05	0.0002
269	Significantly increasing trend	106458	17	2002 - 2019	26.74	0.2	26.02	0.05	0.0010
508	No significant trend	24021	6	2012 - 2019	26.67	0.33	26.54	0.07	0.2949
509	No significant trend	38607	8	2012 - 2019	27.70	0.05	27.79	0.11	0.4739
255	Significantly increasing trend	119939	18	2002 - 2019	26.35	0.24	25.73	0.07	0.0000
506	No significant trend	35198	7	2012 - 2019	27.41	0.04	27.2	0.05	0.7350
294	Significantly increasing trend	112348	18	2002 - 2019	26.92	0.27	25.52	0.09	0.0000
239	Significantly increasing trend	111523	17	2002 - 2018	26.92	0.24	25.96	0.07	0.0001
216	Significantly increasing trend	98535	17	2002 - 2018	26.26	0.31	25.86	0.06	0.0000
215	Significantly increasing trend	133286	16	2003 - 2018	26.74	0.26	26.42	0.05	0.0000
501	No significant trend	34805	5	2012 - 2018	27.48	0.11	27.55	0.05	0.6481
503	Insufficient data to calculate trend	7490	1	2016 - 2016	28.74	-	-	-	NA
504	Insufficient data to calculate trend	4339	1	2018 - 2018	29.84	-	-	-	NA



USGS Coral Reef Ecosystem Studies (CREST) Project - 899

Florida Keys National Marine Sanctuary
 USGS Coral Reef Ecosystem Studies (CREST) Project
 ProgramID: 899
 Water Temperature - Continuous

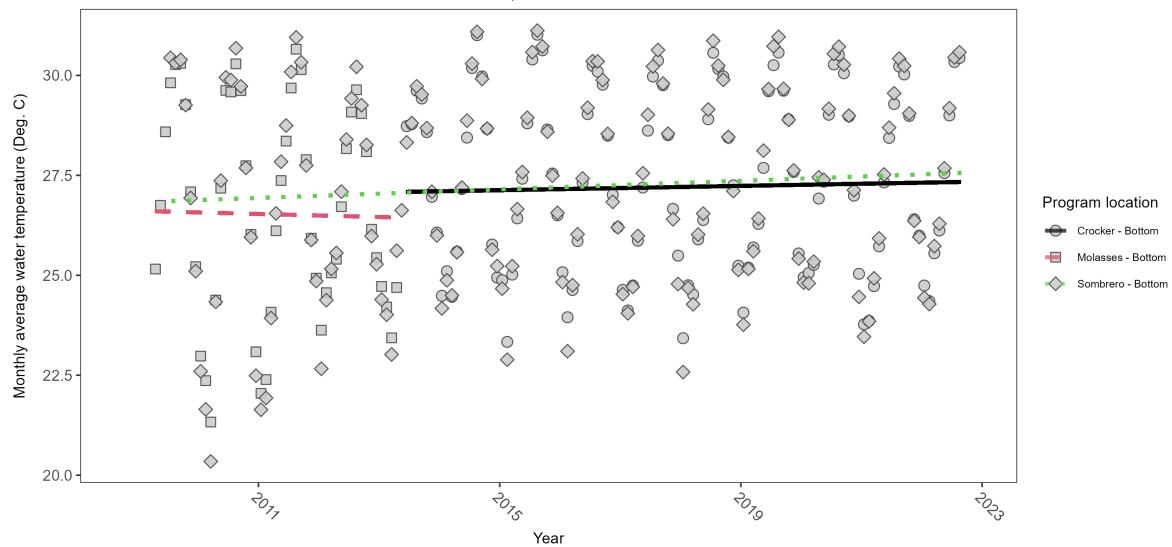
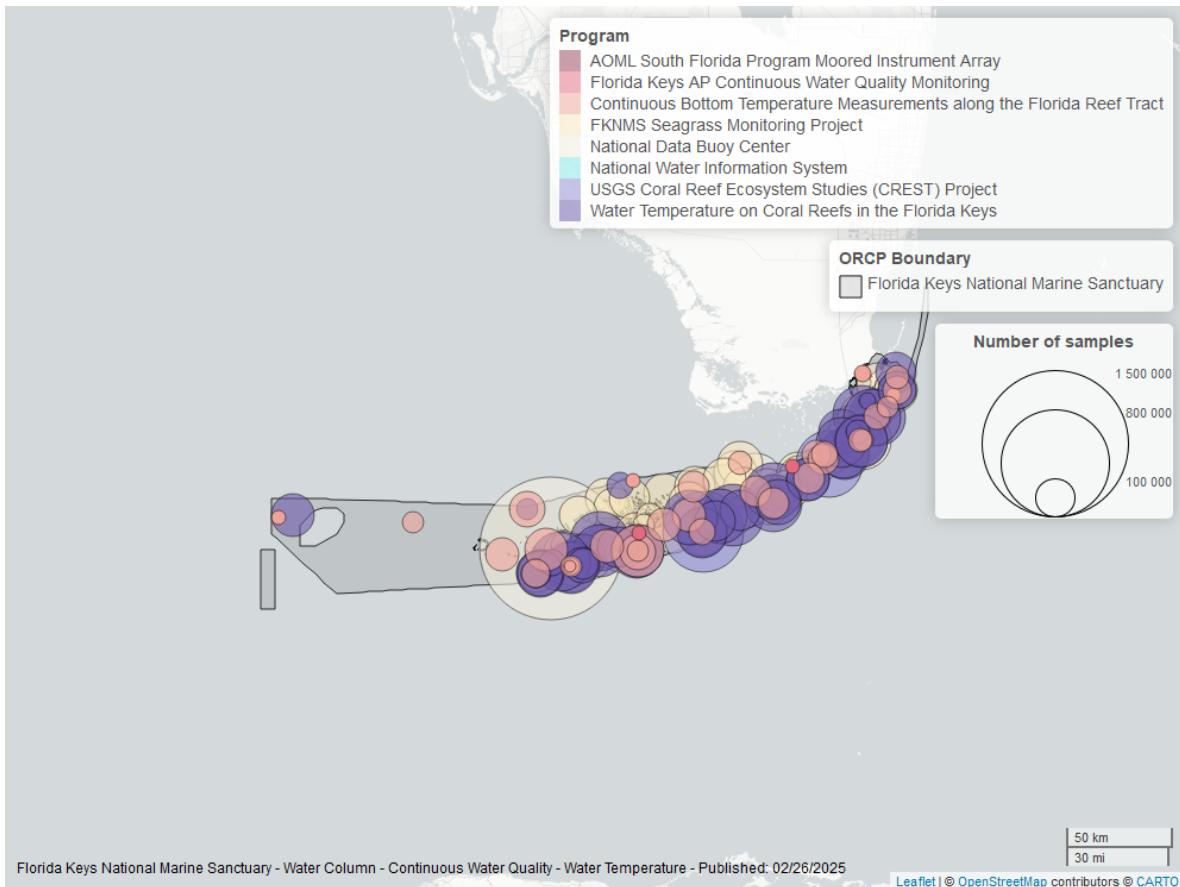


Table 14: Seasonal Kendall-Tau Results for All Stations - Water Temperature

Program Location	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
Sombrero	Significantly increasing trend	459354	14	2009 - 2022	27.16	0.26	26.83	0.05	0.0000
Crocker	Significantly increasing trend	322670	10	2013 - 2022	27.32	0.15	27.07	0.03	0.0436
Molasses	No significant trend	140713	5	2009 - 2013	26.72	-0.03	26.61	-0.04	0.9247



Water Temperature on Coral Reefs in the Florida Keys - 986

Florida Keys National Marine Sanctuary
 Water Temperature on Coral Reefs in the Florida Keys
 ProgramID: 986
 Water Temperature - Continuous

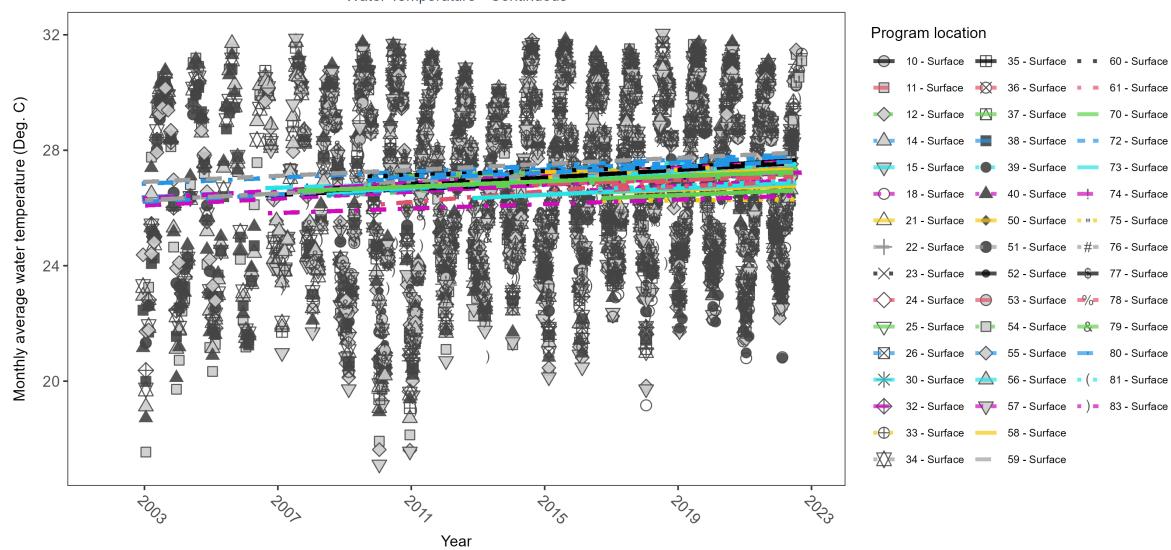
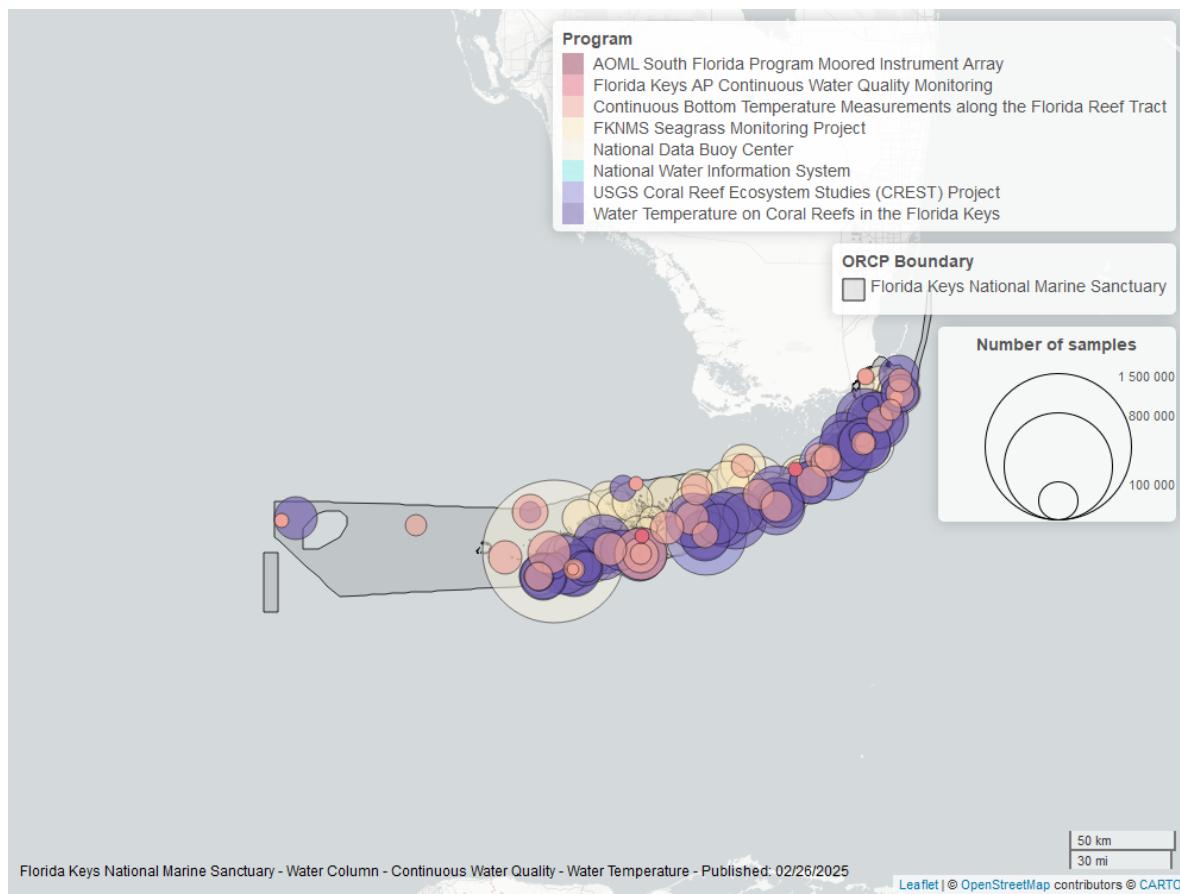


Table 15: Seasonal Kendall-Tau Results for All Stations - Water Temperature

Program Location	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
51	Significantly increasing trend	222780	18	2003 - 2022	26.67	0.31	26.27	0.06	0.0000
11	Significantly increasing trend	228643	18	2003 - 2022	26.81	0.3	26.1	0.06	0.0000
34	Significantly increasing trend	274006	21	2002 - 2022	26.74	0.3	26.19	0.07	0.0000
73	Significantly increasing trend	179435	15	2008 - 2022	26.74	0.35	26.49	0.07	0.0000
40	Significantly increasing trend	244138	21	2002 - 2022	26.79	0.28	26.27	0.07	0.0000
55	Significantly increasing trend	225636	21	2002 - 2022	26.86	0.28	26.79	0.05	0.0000
56	Significantly increasing trend	175648	17	2006 - 2022	26.67	0.14	26.67	0.03	0.0187
26	Significantly increasing trend	142040	14	2009 - 2022	26.96	0.21	26.97	0.06	0.0024
70	Significantly increasing trend	104819	10	2013 - 2022	26.91	0.22	26.73	0.05	0.0044
35	Significantly increasing trend	217666	17	2006 - 2022	26.84	0.22	26.41	0.05	0.0000
77	Significantly increasing trend	188336	15	2008 - 2022	26.89	0.27	26.57	0.07	0.0000
79	Significantly increasing trend	175394	16	2007 - 2022	26.79	0.21	26.56	0.04	0.0006
53	Significantly increasing trend	179447	15	2008 - 2022	26.98	0.37	26.53	0.07	0.0000
76	Significantly increasing trend	168914	14	2009 - 2022	26.84	0.23	26.82	0.05	0.0002
36	Significantly increasing trend	192871	16	2007 - 2022	26.89	0.24	26.52	0.06	0.0001
59	Significantly increasing trend	191677	18	2002 - 2022	26.81	0.27	26.85	0.05	0.0000
12	Significantly increasing trend	138064	13	2008 - 2022	27.16	0.21	26.39	0.06	0.0020
15	Significantly increasing trend	212659	17	2006 - 2022	26.99	0.19	26.4	0.05	0.0006
21	No significant trend	55870	7	2016 - 2022	27.18	0.13	26.51	0.04	0.2228
57	Significantly increasing trend	187914	15	2008 - 2022	26.96	0.3	26.66	0.07	0.0000
38	Significantly increasing trend	256177	21	2002 - 2022	26.47	0.28	26.15	0.06	0.0000
52	Significantly increasing trend	188237	15	2008 - 2022	26.92	0.34	26.63	0.07	0.0000
32	Significantly increasing trend	223104	18	2003 - 2022	26.69	0.31	26.09	0.06	0.0000
22	Significantly increasing trend	171553	14	2009 - 2022	26.91	0.25	26.43	0.07	0.0000
72	Significantly increasing trend	188119	15	2008 - 2022	26.77	0.42	26.42	0.08	0.0000
14	Significantly increasing trend	223851	19	2002 - 2022	26.84	0.24	26.31	0.06	0.0000
80	Significantly increasing trend	167362	14	2009 - 2022	26.87	0.21	26.92	0.05	0.0005
60	Significantly increasing trend	150013	14	2009 - 2022	26.94	0.17	27.07	0.04	0.0094
23	Significantly increasing trend	113161	11	2012 - 2022	27.33	0.19	26.83	0.07	0.0111
74	Significantly increasing trend	130333	11	2012 - 2022	26.87	0.24	26.64	0.05	0.0005
78	No significant trend	87924	9	2014 - 2022	26.98	0.11	26.81	0.03	0.1925
54	Significantly increasing trend	130399	11	2012 - 2022	27.06	0.25	26.77	0.06	0.0002
30	Significantly increasing trend	116701	11	2012 - 2022	26.62	0.21	26.3	0.05	0.0055
25	No significant trend	117274	12	2010 - 2022	27.19	0.08	27.07	0.03	0.2669
83	Significantly increasing trend	130599	16	2006 - 2022	25.79	0.14	25.79	0.04	0.0106
81	No significant trend	53957	7	2016 - 2022	27.03	0.13	26.63	0.05	0.2247
61	No significant trend	54044	7	2016 - 2022	27.06	0.15	26.58	0.05	0.1513
24	Significantly increasing trend	111388	11	2010 - 2022	26.89	0.33	26.12	0.09	0.0000
50	Significantly increasing trend	103998	10	2013 - 2022	27.01	0.23	26.85	0.05	0.0035
33	No significant trend	38112	6	2016 - 2022	27.13	0.08	26.23	0.01	0.6585
75	Significantly increasing trend	144589	13	2010 - 2022	27.06	0.27	26.71	0.07	0.0001
39	No significant trend	33723	5	2018 - 2022	27.01	-0.09	27.6	-0.08	0.6877
58	No significant trend	72230	9	2014 - 2022	27.11	0.01	27.23	0.01	0.9631
18	No significant trend	44119	7	2016 - 2022	27.03	0.13	26.59	0.06	0.2890
37	No significant trend	52521	7	2016 - 2022	26.74	0.07	26.3	0.05	0.4651
10	Insufficient data to calculate trend	18268	3	2020 - 2022	27.72	-	-	-	NA



Continuous Bottom Temperature Measurements along the Florida Reef Tract - 989

Florida Keys National Marine Sanctuary
Continuous Bottom Temperature Measurements along the Florida Reef Tract
ProgramID: 989

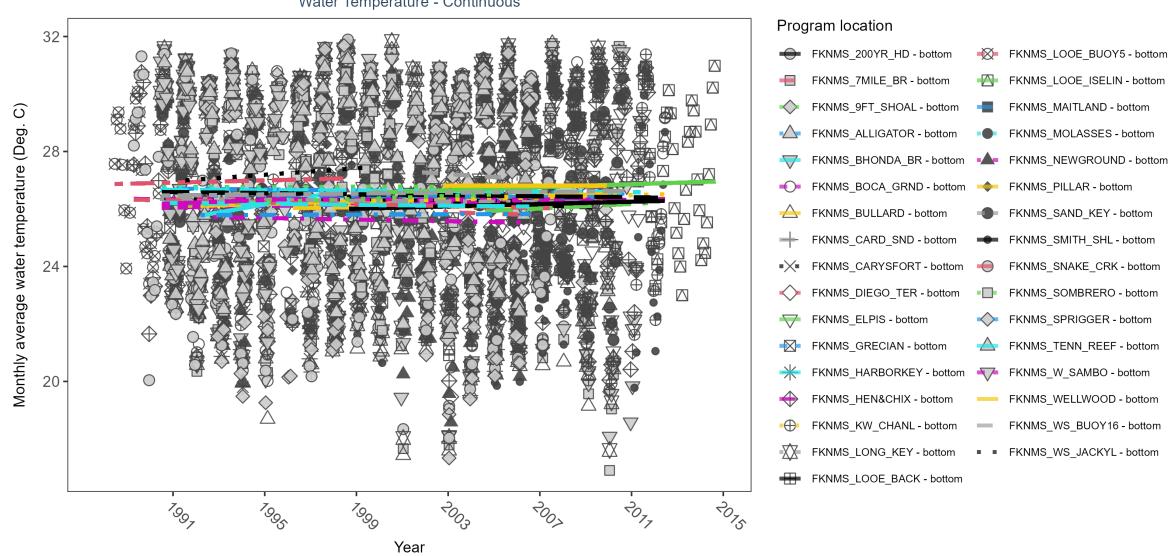
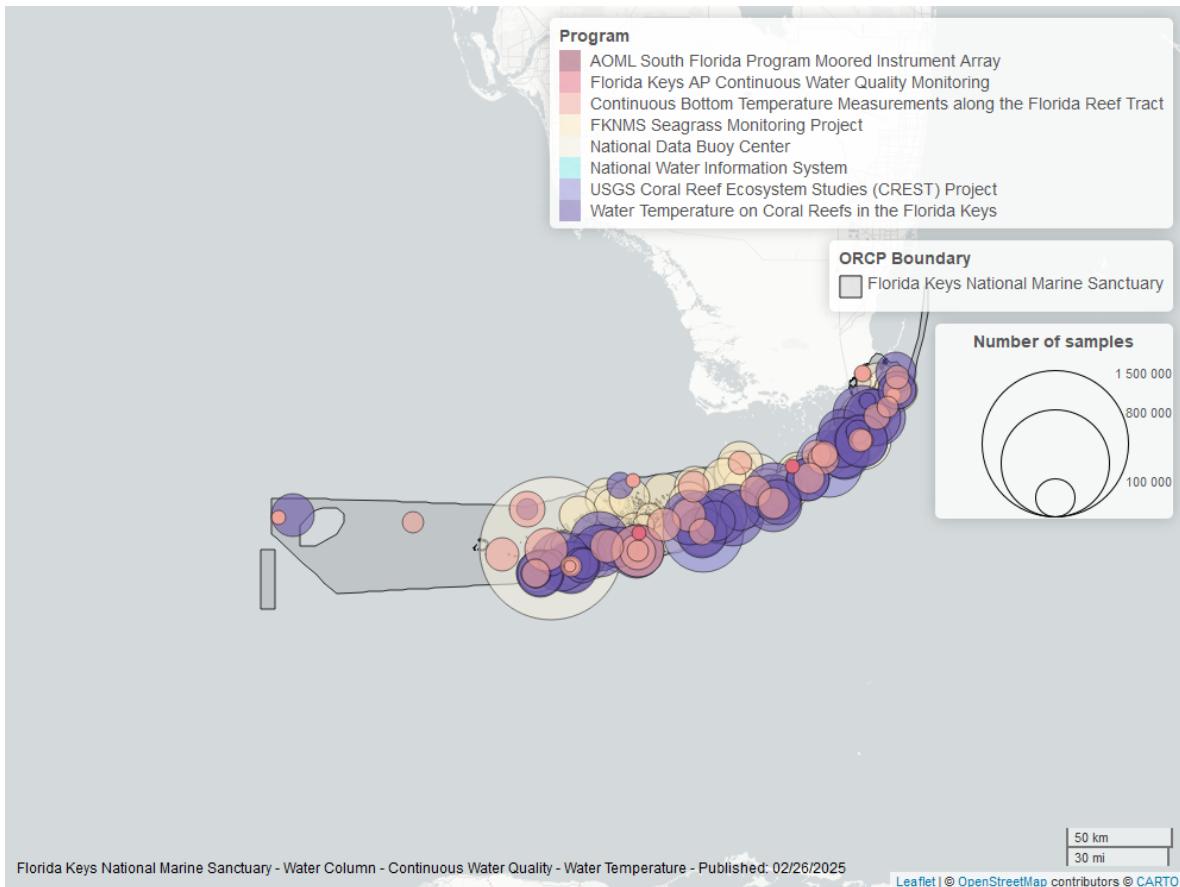


Table 16: Seasonal Kendall-Tau Results for All Stations - Water Temperature

Program Location	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
FKNMS-LOOE-ISELIN	No significant trend	194367	13	1999 - 2014	26.88	0.13	26.55	0.03	0.0801
FKNMS-GRECIAN	No significant trend	51723	18	1990 - 2010	26.65	-0.03	26.48	0	0.6634
FKNMS-KW-CHANL	No significant trend	123578	18	1991 - 2012	26.27	0.1	26.11	0.02	0.0805
FKNMS-LONG-KEY	No significant trend	69656	19	1990 - 2010	26.64	-0.03	26.35	-0.01	0.5769
FKNMS-BOCA-GRND	No significant trend	73434	17	1990 - 2012	26.14	0.08	26.04	0.01	0.1662
FKNMS-7MILE-BR	No significant trend	73055	19	1991 - 2010	26.66	0.05	26.22	0.01	0.3549
FKNMS-LOOE-BACK	No significant trend	84984	18	1990 - 2012	26.80	-0.06	26.6	-0.01	0.4216
FKNMS-TENN-REEF	No significant trend	63260	16	1990 - 2006	26.70	-0.06	26.22	-0.01	0.2738
FKNMS-SNAKE-CRK	No significant trend	56777	19	1989 - 2007	26.16	-0.06	26.33	-0.02	0.2771
FKNMS-SMITH-SHL	No significant trend	94527	10	1998 - 2012	25.45	0.13	25.99	0.02	0.1933
FKNMS-NEWGROUND	No significant trend	35329	12	1992 - 2006	25.49	-0.05	25.73	-0.01	0.5207
FKNMS-MAITLAND	Insufficient data to calculate trend	12421	4	2004 - 2007	26.07	-	-	-	NA
FKNMS-SAND-KEY	No significant trend	59287	18	1990 - 2010	26.70	0.05	26.46	0.01	0.3230
FKNMS-CARYSFORT	No significant trend	55001	16	1990 - 2006	26.40	-0.03	26.38	0	0.6354
FKNMS-BHONDA-BR	No significant trend	77111	22	1990 - 2011	26.60	-0.02	26.67	0	0.6571
FKNMS-HEN-and-CHIX	No significant trend	72285	21	1989 - 2011	26.50	-0.01	26.35	0	0.8763
FKNMS-9FT-SHOAL	No significant trend	80299	21	1990 - 2010	26.50	0	26.76	0	0.9917
FKNMS-ALLIGATOR	No significant trend	65144	19	1990 - 2010	26.55	-0.06	26.72	-0.01	0.2339
FKNMS-ELPIS	No significant trend	31035	8	2004 - 2011	26.35	0.06	25.9	0.04	0.5313
FKNMS-WELLWOOD	No significant trend	30427	8	2002 - 2009	26.43	0	26.82	0	1.0000
FKNMS-200YR-HD	No significant trend	44601	12	1998 - 2009	26.10	-0.1	26.45	-0.04	0.1720
FKNMS-PILLAR	No significant trend	40805	11	1996 - 2006	26.24	0.02	26.04	0.01	0.9363
FKNMS-SPRIGGER	No significant trend	41834	13	1992 - 2006	26.10	0.02	25.78	0	0.8553
FKNMS-DIEGO-TER	No significant trend	16693	5	2002 - 2006	25.58	-0.05	25.91	-0.03	0.8407
FKNMS-BULLARD	Significantly increasing trend	66230	18	1992 - 2009	26.31	0.12	26.11	0.02	0.0313
FKNMS-MOLASSES	No significant trend	36146	13	1990 - 2002	26.70	-0.05	26.74	-0.01	0.4806
FKNMS-HARBORKEY	No significant trend	15407	5	1992 - 1997	26.50	0.14	25.74	0.14	0.3261
FKNMS-LOOE-BUOY5	No significant trend	35252	10	1988 - 1998	26.90	0.05	26.86	0.02	0.3627
FKNMS-CARD-SND	No significant trend	18249	6	2001 - 2006	26.52	-0.05	27.32	-0.05	0.7909
FKNMS-SOMBREIRO	No significant trend	48974	13	1991 - 2005	26.50	0.13	26.14	0.03	0.0508
FKNMS-W-SAMBO	No significant trend	18786	6	1990 - 1995	26.90	0.09	26.16	0.03	0.5597
FKNMS-WS-JACKYL	No significant trend	29557	9	1991 - 1999	26.40	0.17	26.96	0.06	0.0860
FKNMS-WS-BUOY16	Insufficient data to calculate trend	8123	3	2003 - 2005	25.99	-	-	-	NA



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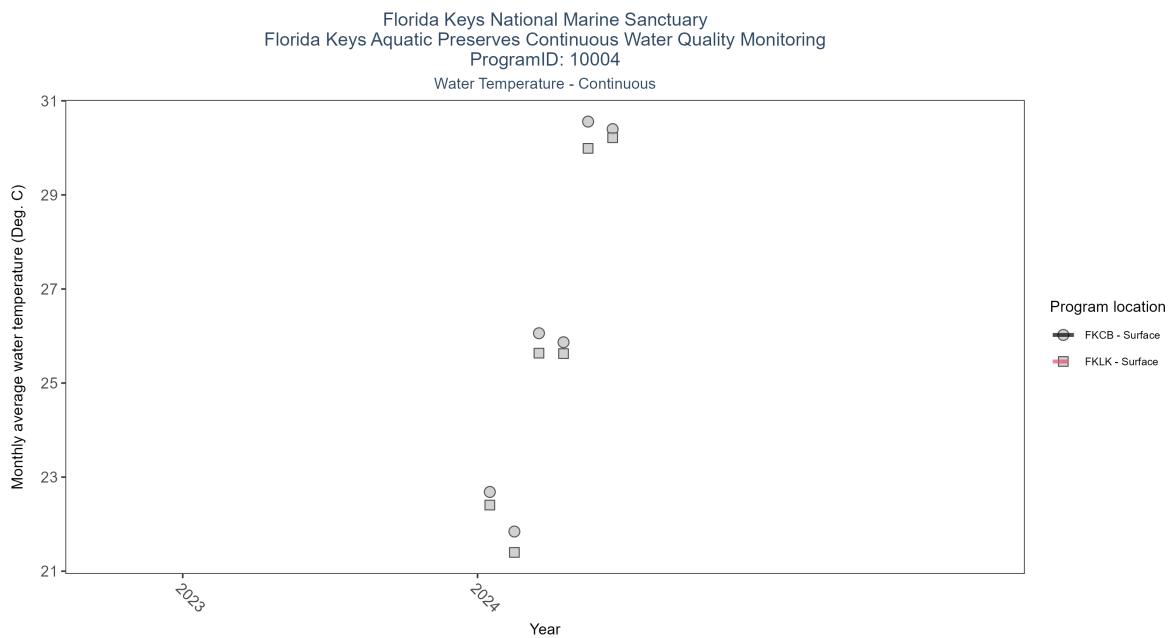
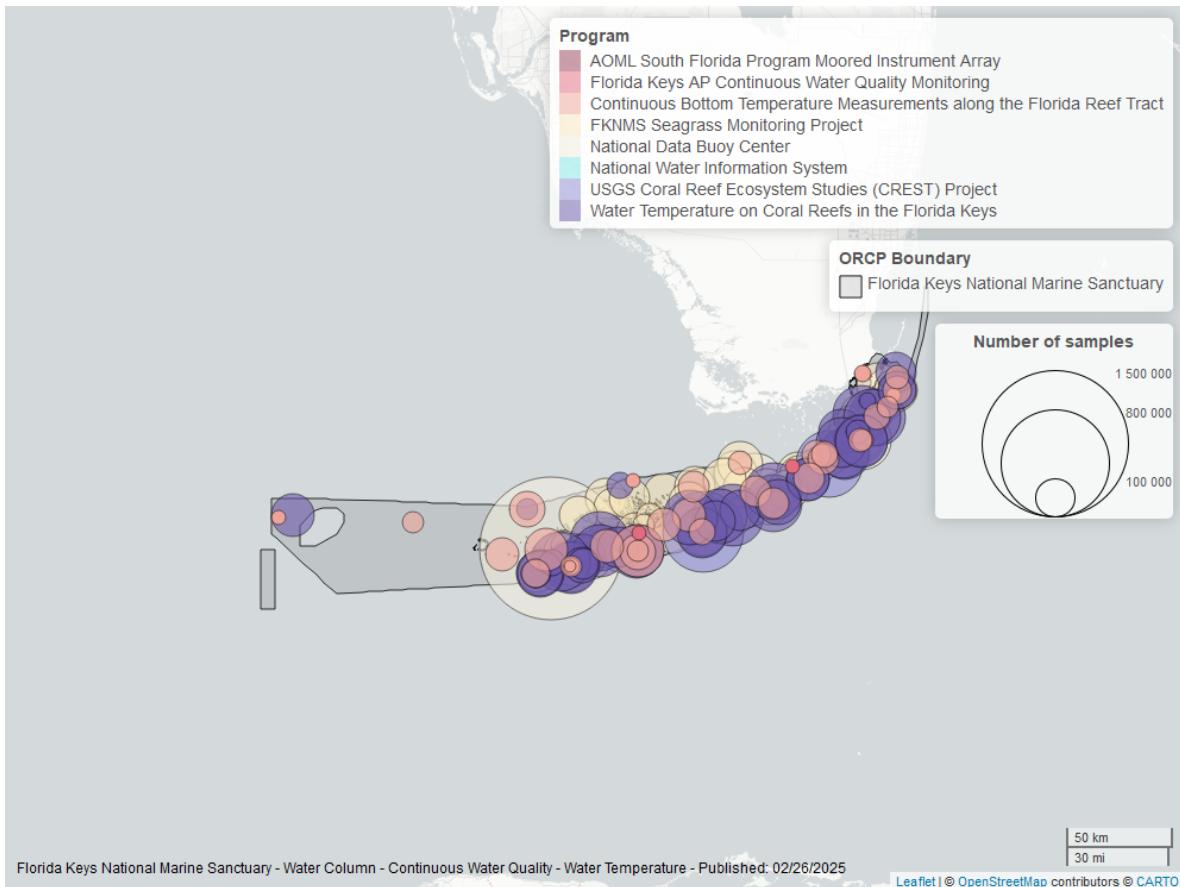


Table 17: Seasonal Kendall-Tau Results for All Stations - Water Temperature

Program Location	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
FKCB	Insufficient data to calculate trend	14197	1	2024 - 2024	26.2	-	-	-	NA
FKLK	Insufficient data to calculate trend	14756	1	2024 - 2024	25.9	-	-	-	NA



pH - Discrete

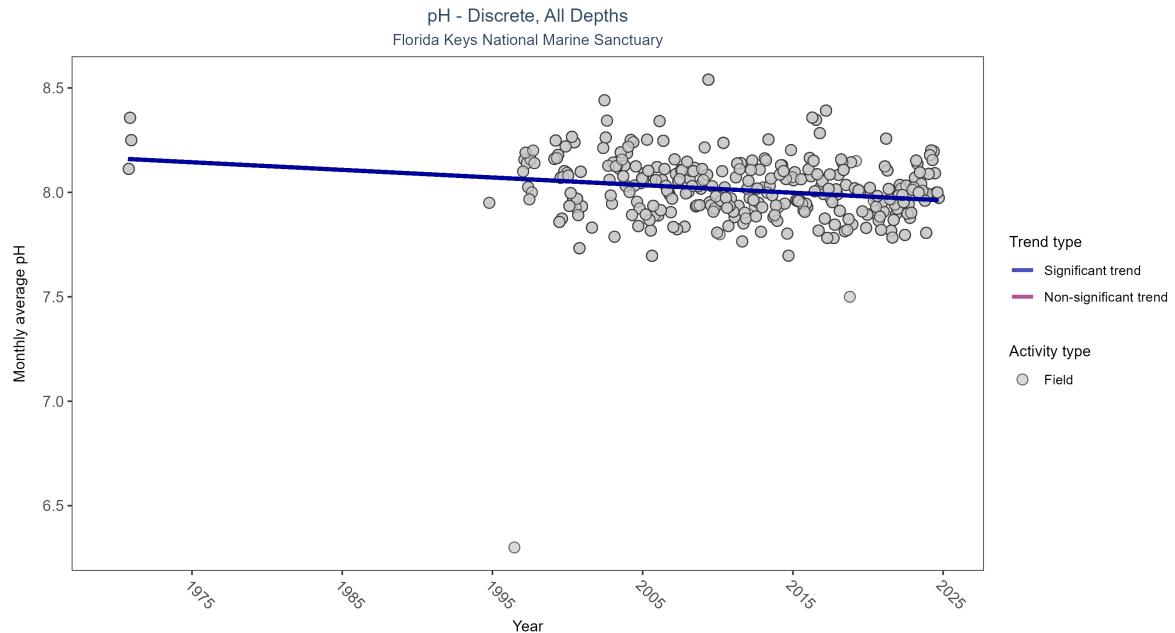
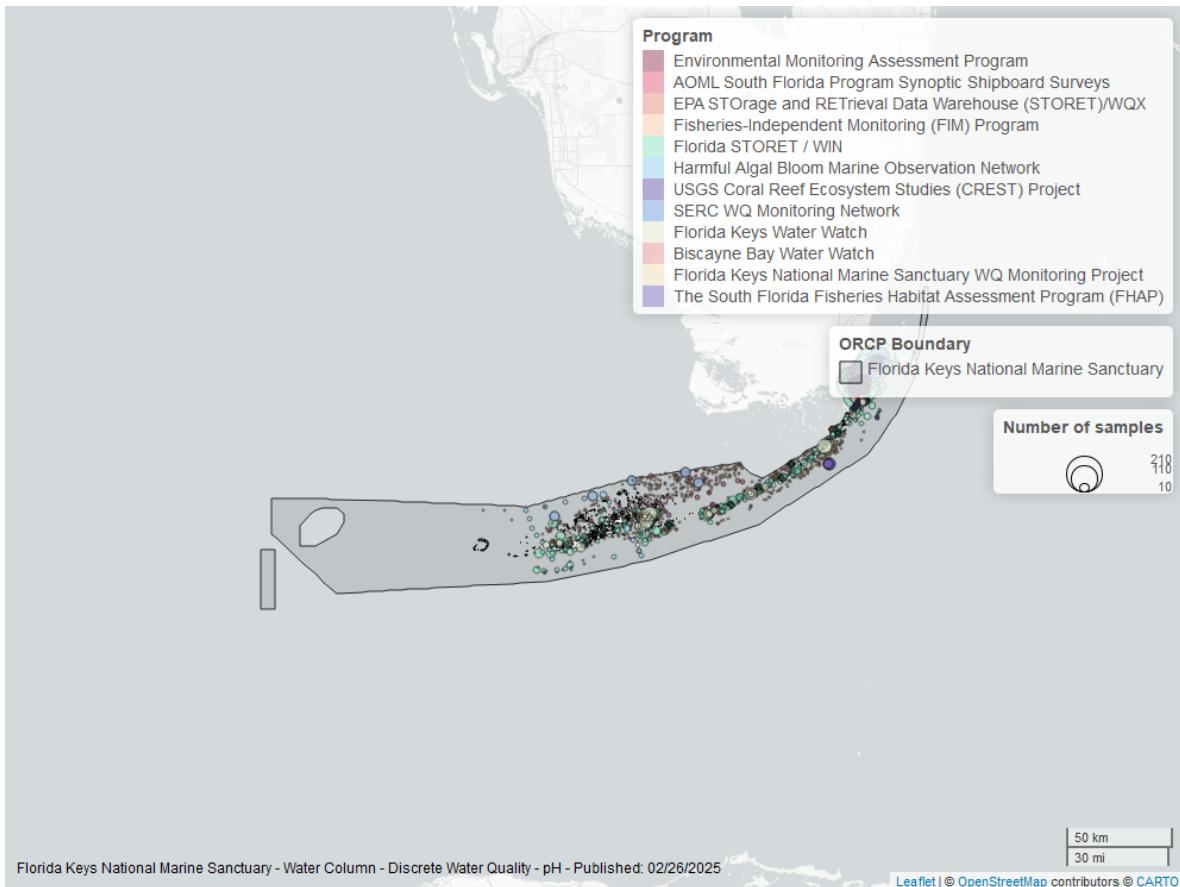


Table 18: Seasonal Kendall-Tau Results for - pH

Activity Type	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
Field	Significantly decreasing trend	9511	30	1970 - 2024	8.04	-0.1678	8.16239	-0.00365	0.0000



pH - Continuous

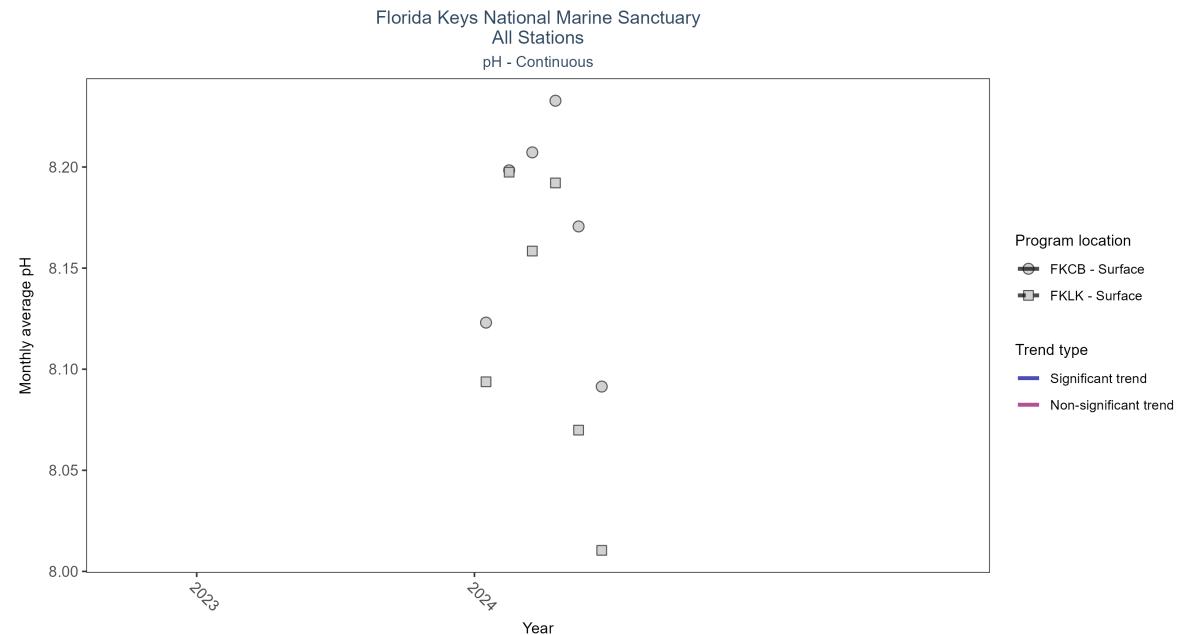
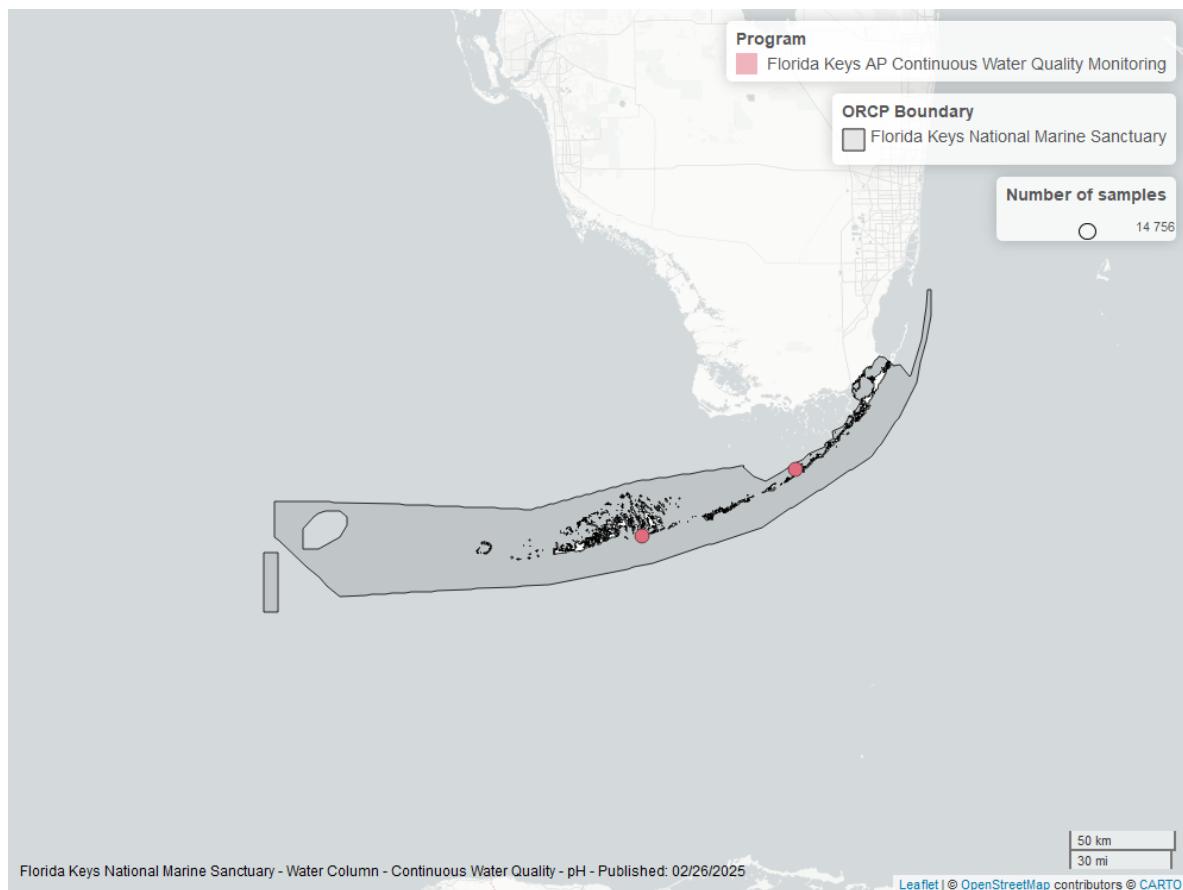


Table 19: Seasonal Kendall-Tau Results for All Stations - pH



Water Clarity

Turbidity - Discrete

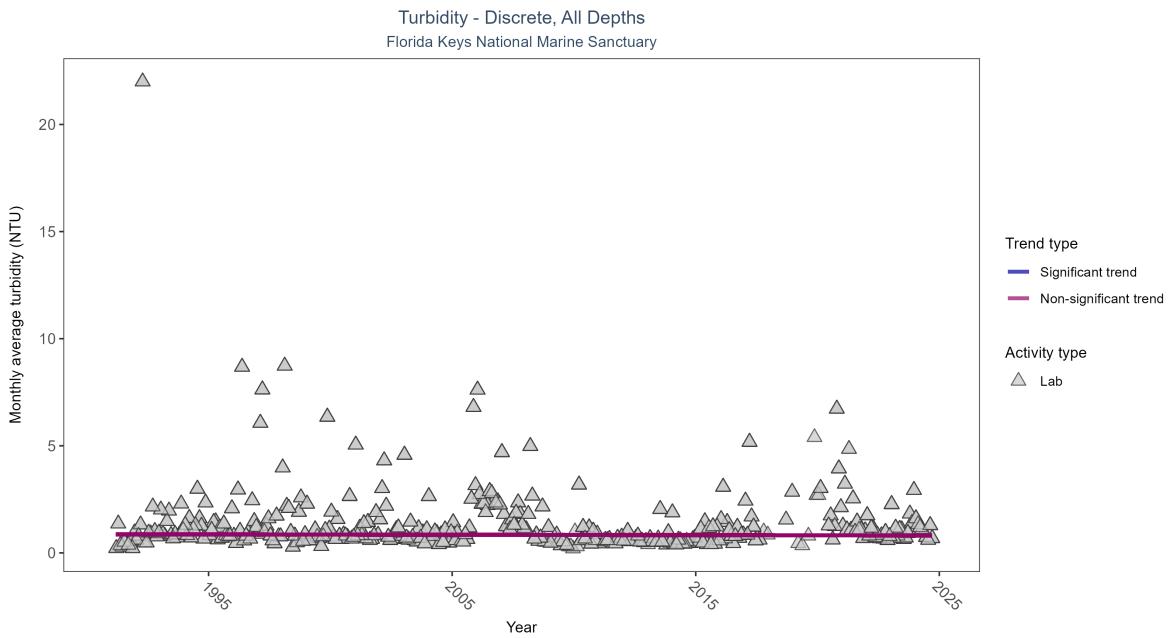
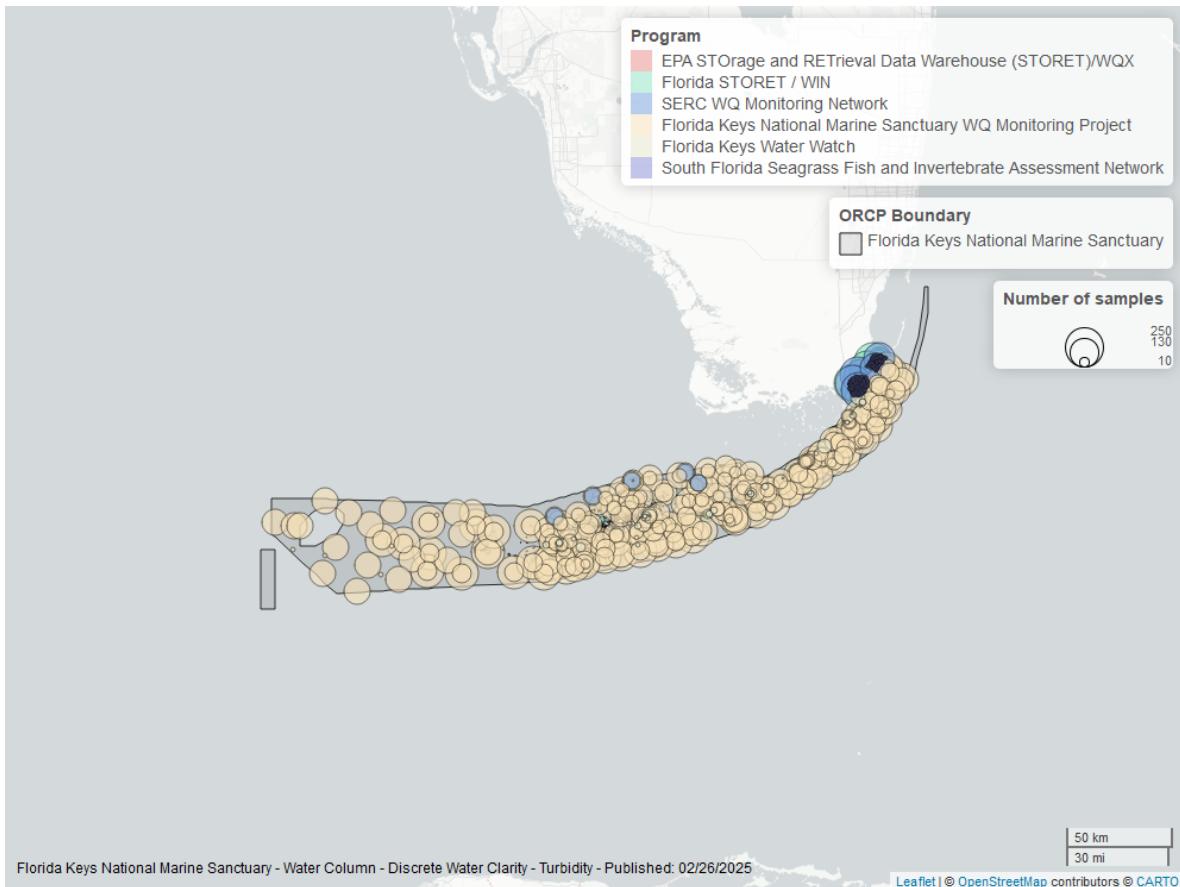


Table 20: Seasonal Kendall-Tau Results for - Turbidity

Activity Type	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
Lab	No significant trend	3521	34	1991 - 2024	0.7	-0.0224	0.86919	-0.00166	0.5464



Turbidity - Continuous

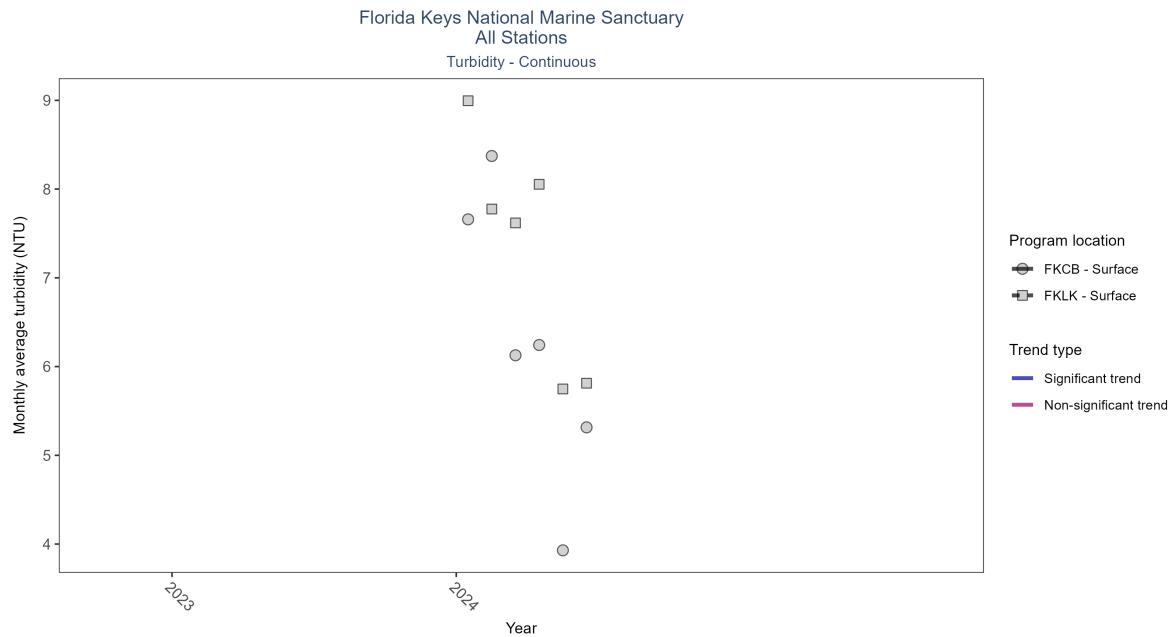
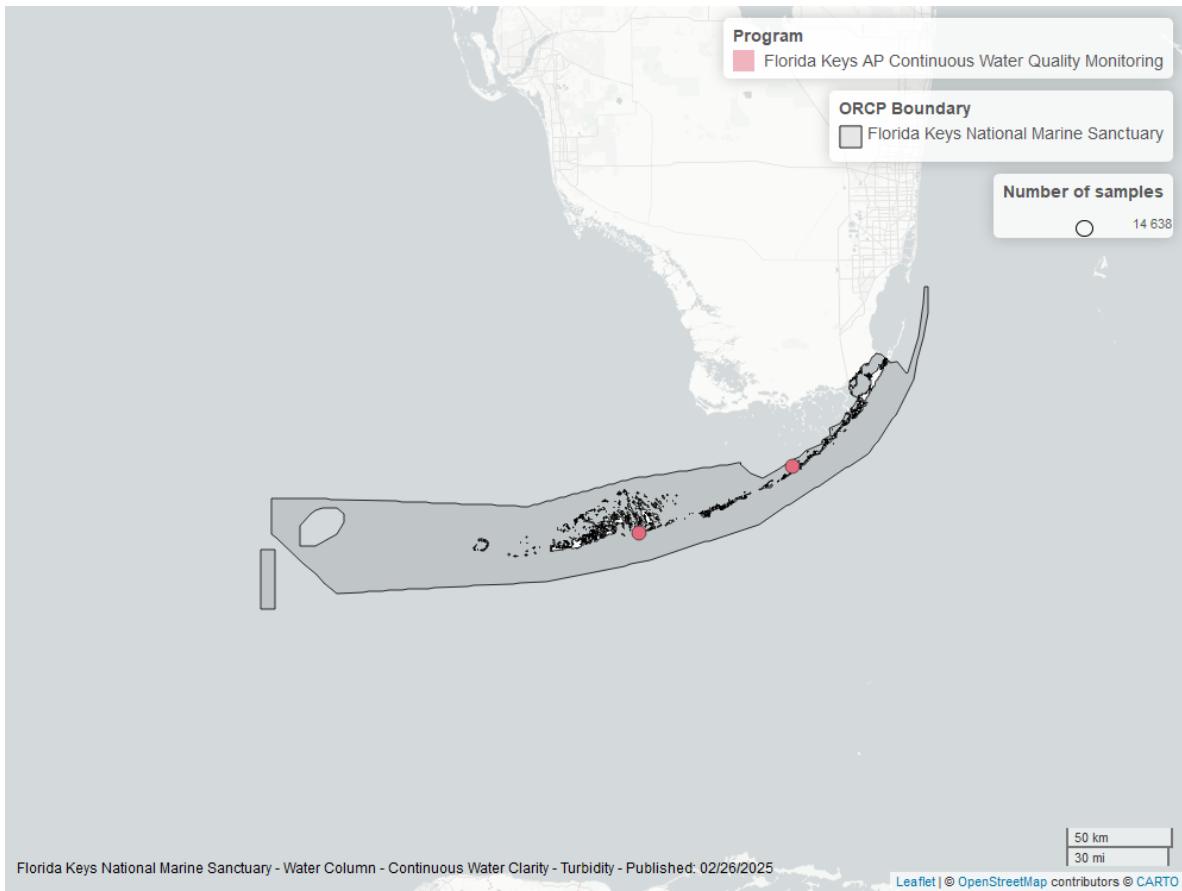


Table 21: Seasonal Kendall-Tau Results for All Stations - Turbidity

Program Location	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
FKLK	Insufficient data to calculate trend	14638	1	2024 - 2024	5	-	-	-	NA
FKCB	Insufficient data to calculate trend	14176	1	2024 - 2024	5	-	-	-	NA



Total Suspended Solids - Discrete

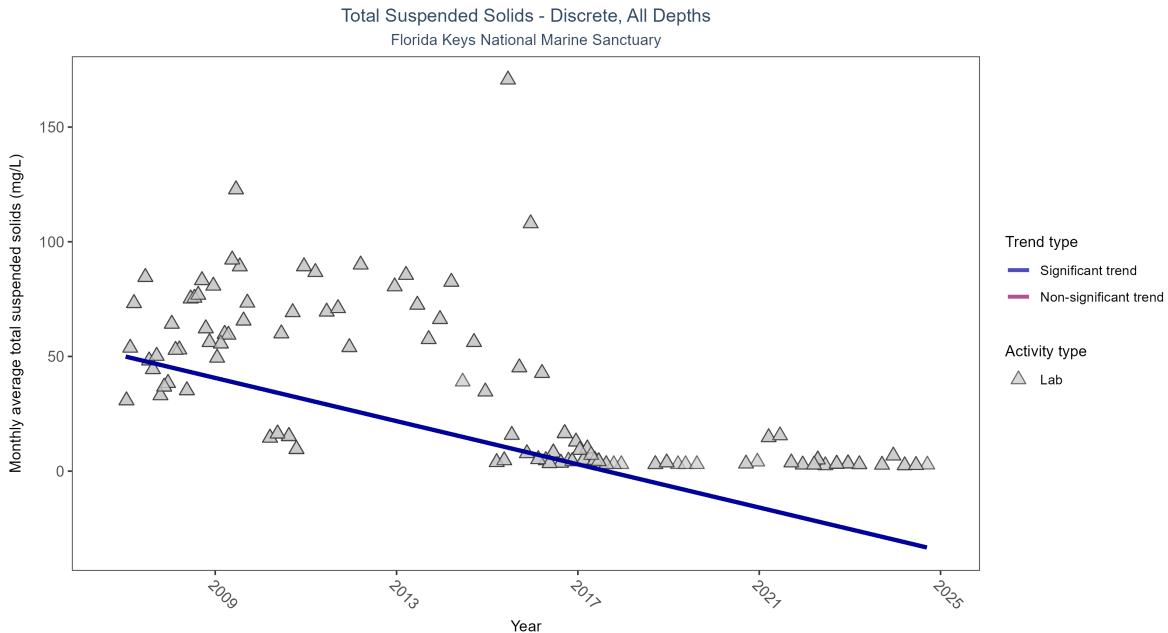


Table 22: Seasonal Kendall-Tau Results for - Total Suspended Solids

Activity Type	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P	
Lab	Significantly decreasing trend	536	18	2007 - 2024		12	-0.5976	50.05297	-4.70889	0.0000



Chlorophyll a, Uncorrected for Pheophytin - Discrete

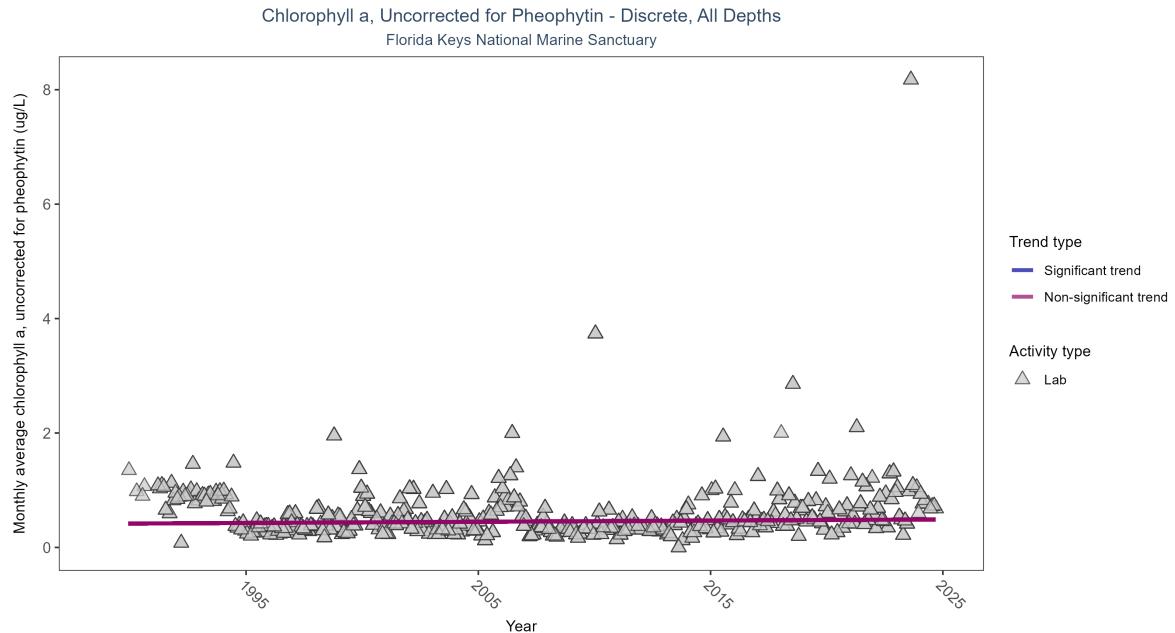
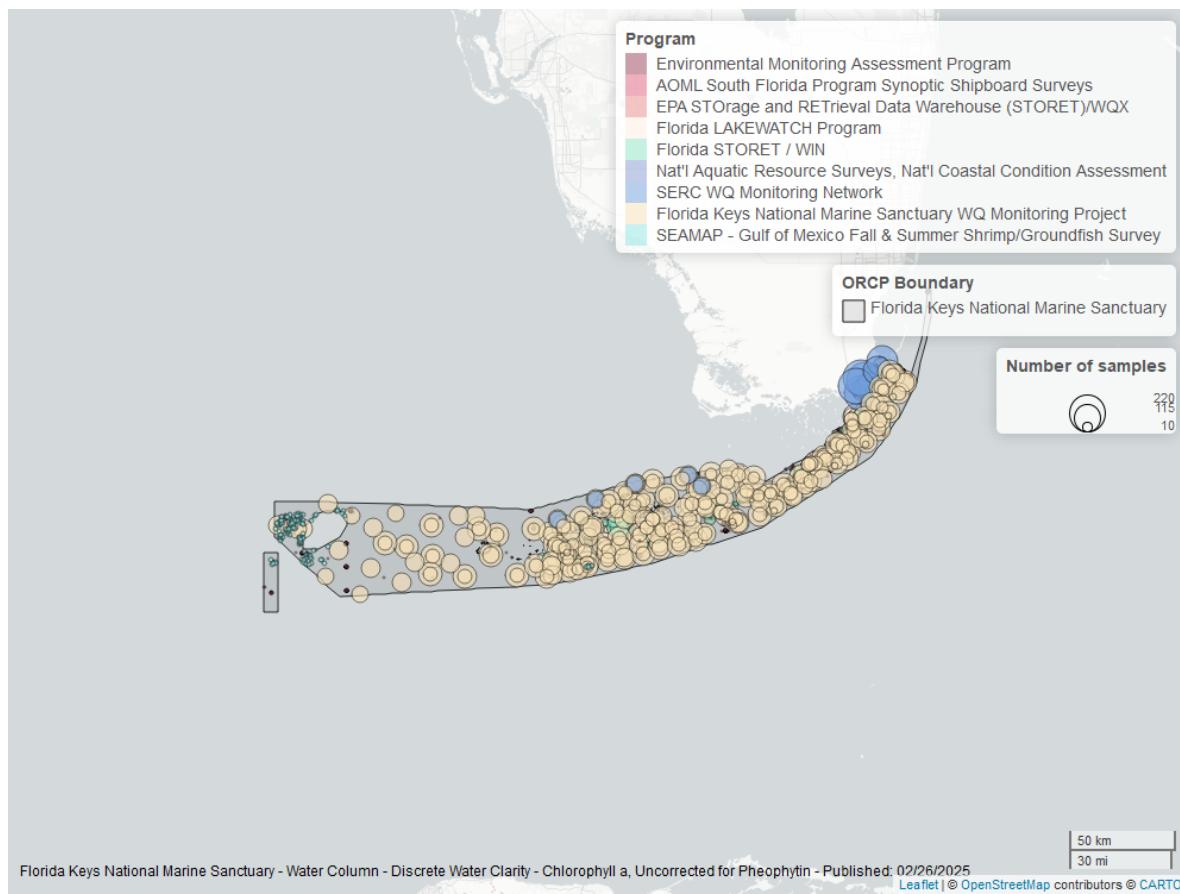


Table 23: Seasonal Kendall-Tau Results for - Chlorophyll a, Uncorrected for Pheophytin

Activity Type	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
Lab	No significant trend	21241	36	1989 - 2024	0.29729	0.0523	0.41524	0.00208	0.1458



Chlorophyll a, Corrected for Pheophytin - Discrete

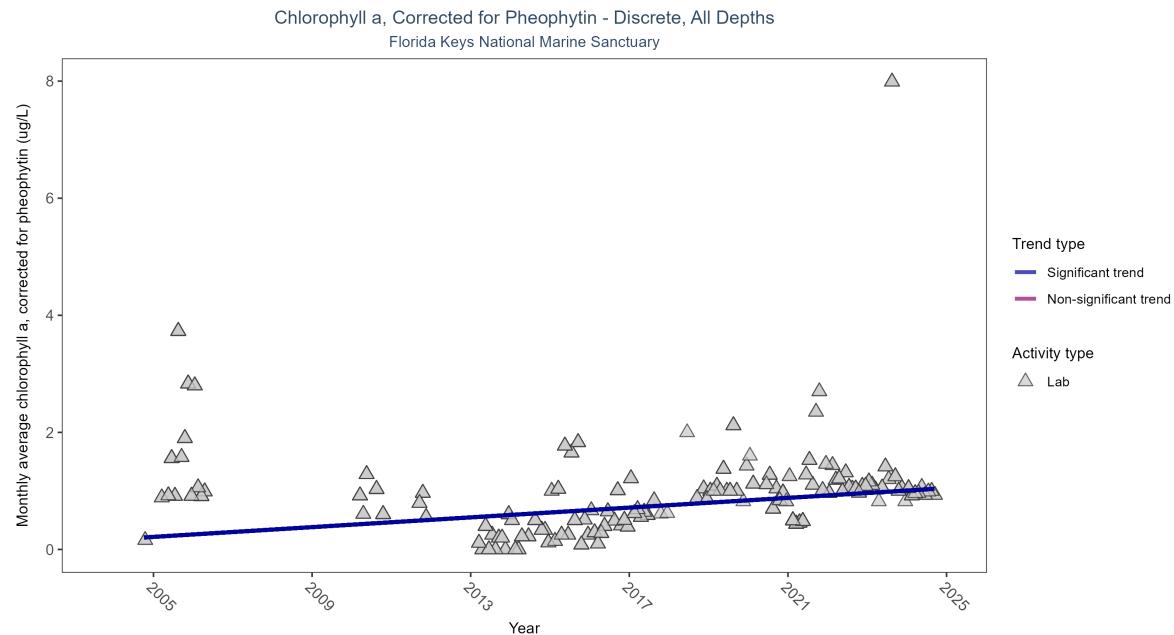
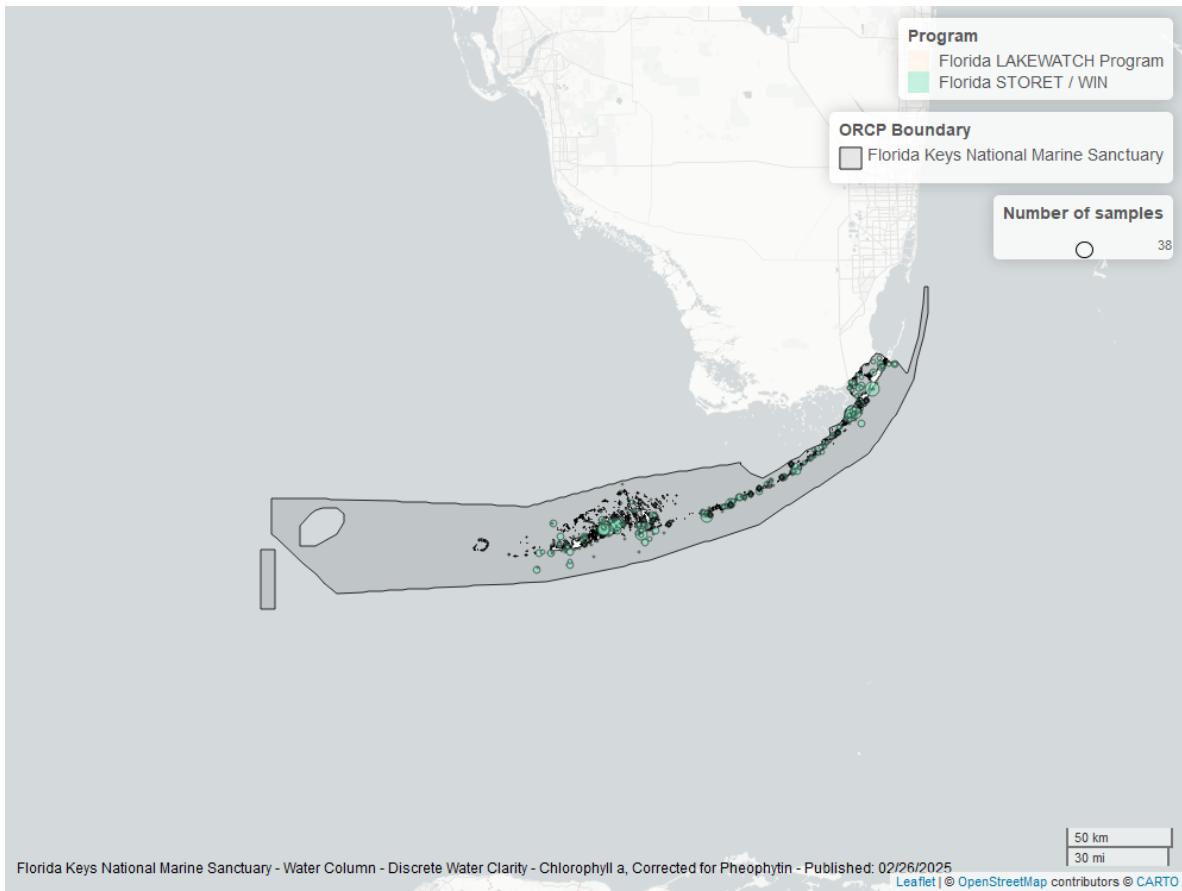


Table 24: Seasonal Kendall-Tau Results for - Chlorophyll a, Corrected for Pheophytin

Activity Type	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
Lab	Significantly increasing trend	2040	17	2004 - 2024	0.62	0.2839	0.17267	0.04167	0.0000



Secchi Depth - Discrete

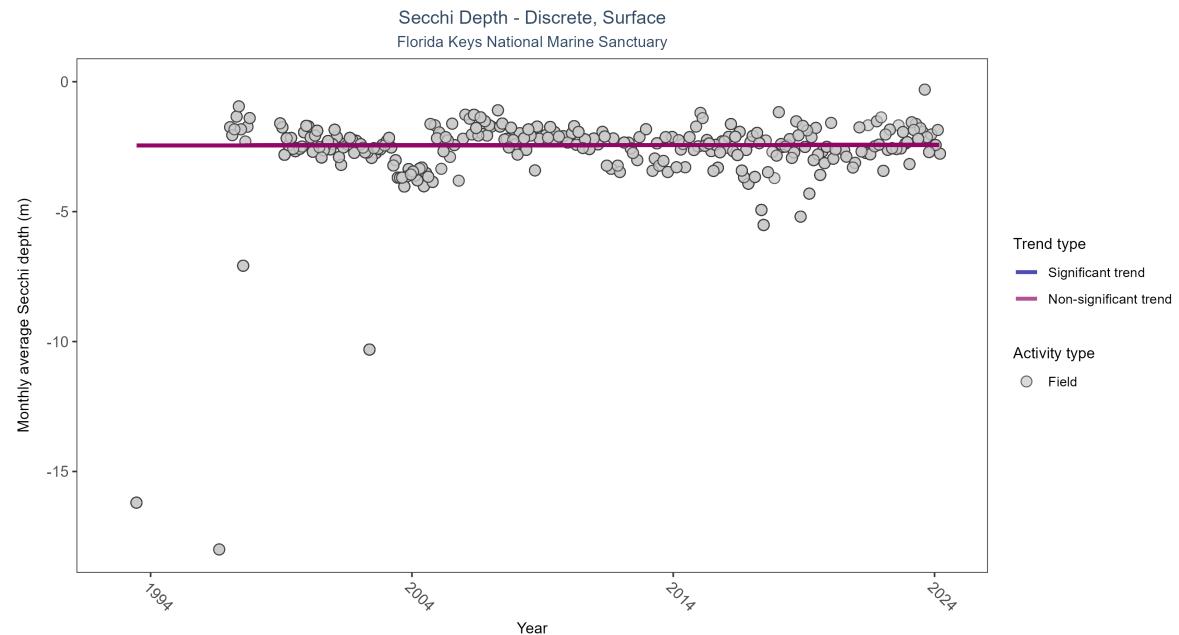


Table 25: Seasonal Kendall-Tau Results for - Secchi Depth

Activity Type	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
Field	No significant trend	5051	30	1993 - 2024	-2.13363	0.0036	-2.45431	0.00069	0.8805



Colored Dissolved Organic Matter - Discrete

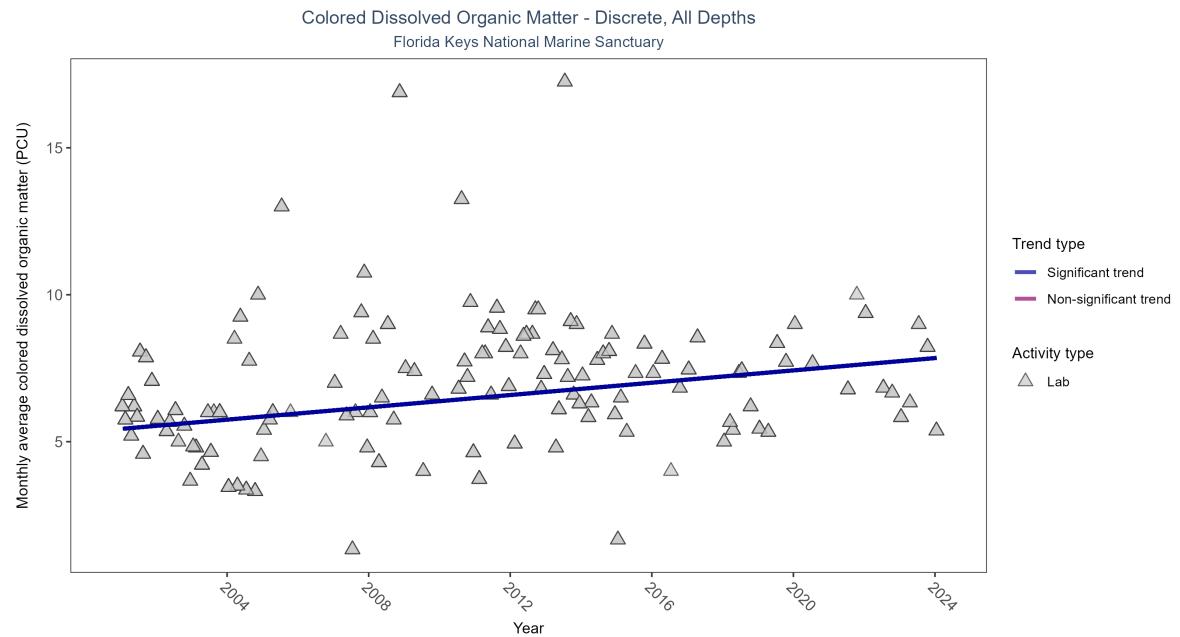


Table 26: Seasonal Kendall-Tau Results for - Colored Dissolved Organic Matter

Activity Type	Statistical Trend	Sample Count	Years with Data	Period of Record	Median Result Value	Tau	Sen Intercept	Sen Slope	P
Lab	Significantly increasing trend	1025	24	2001 - 2024	6	0.2457	5.43536	0.10476	0.0003

