

Rookery Bay National Estuarine Research Reserve

SEACAR Discrete Water Quality Analysis

Last compiled on 26 June, 2024

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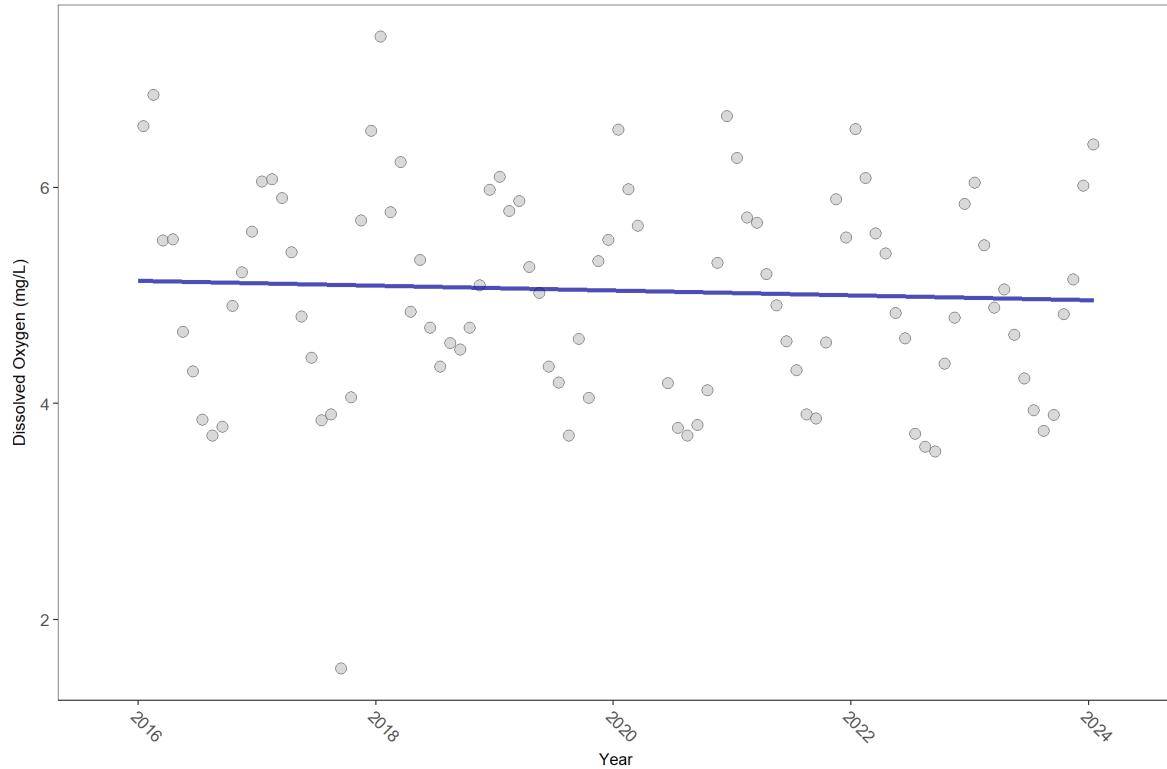
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Parameters

Dissolved Oxygen

rkbpbwq

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rkbpbwq
Dissolved Oxygen



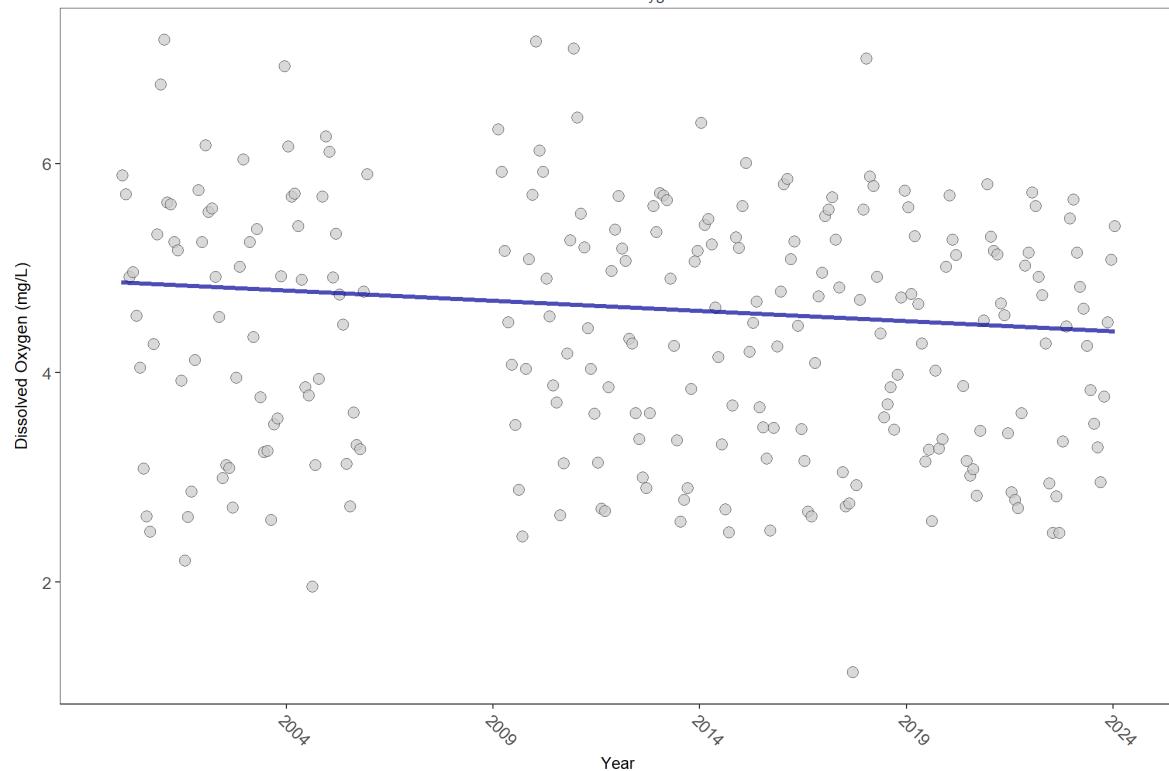
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	265255	9	5	TRUE	-0.1361	0.1209	-0.02269027	5.137504	5.0929	0.9266	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbmbwq

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 rkbmbwq
 Dissolved Oxygen



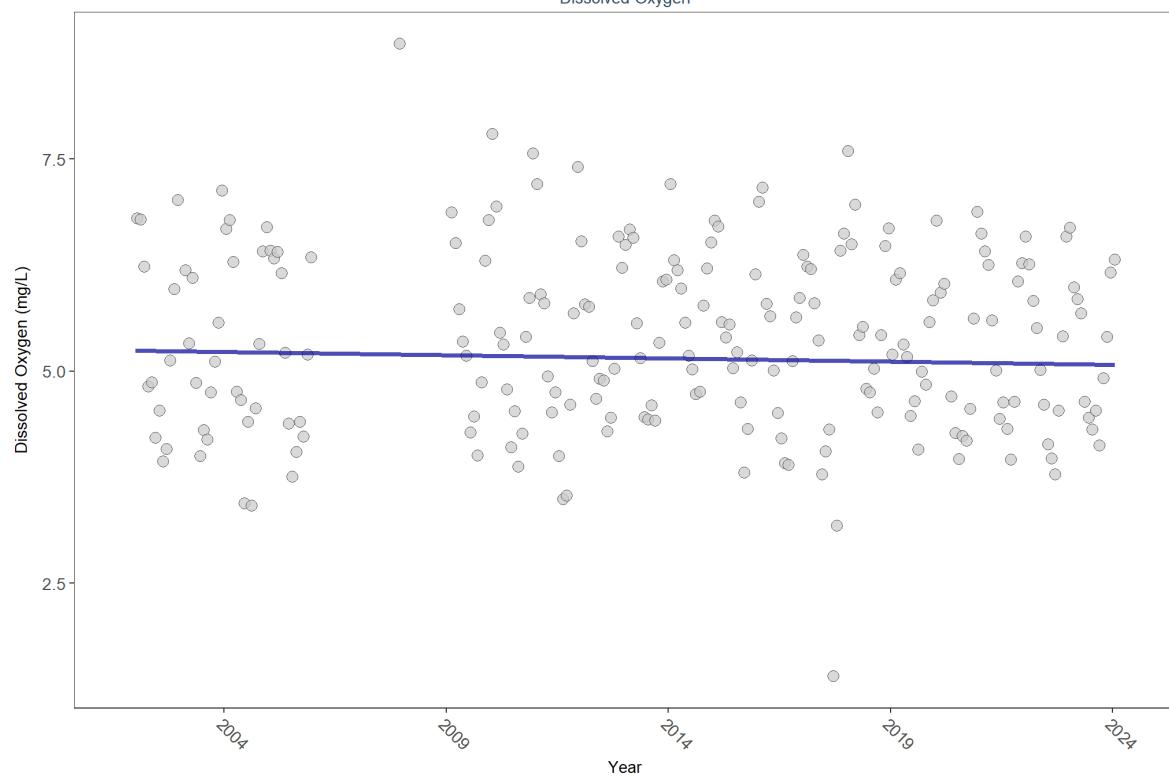
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	587313	22	4.4	TRUE	-0.2213	0.0000	-0.01941125	4.862686	19.9079	0.0466	-1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbfbwq

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Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbfbwq
Dissolved Oxygen



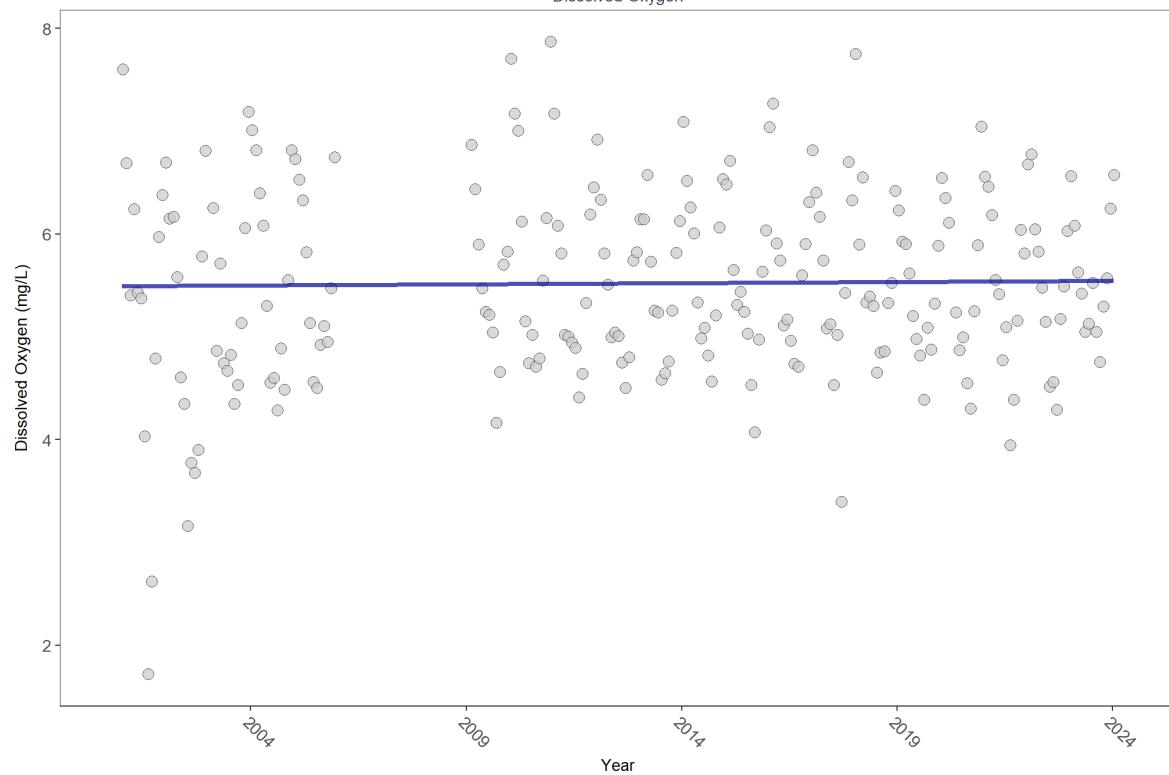
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	533434	21	5.4	TRUE	-0.061	0.2007	-0.007723325	5.245141	13.7234	0.2487	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbhwq

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 rkbhwq
 Dissolved Oxygen



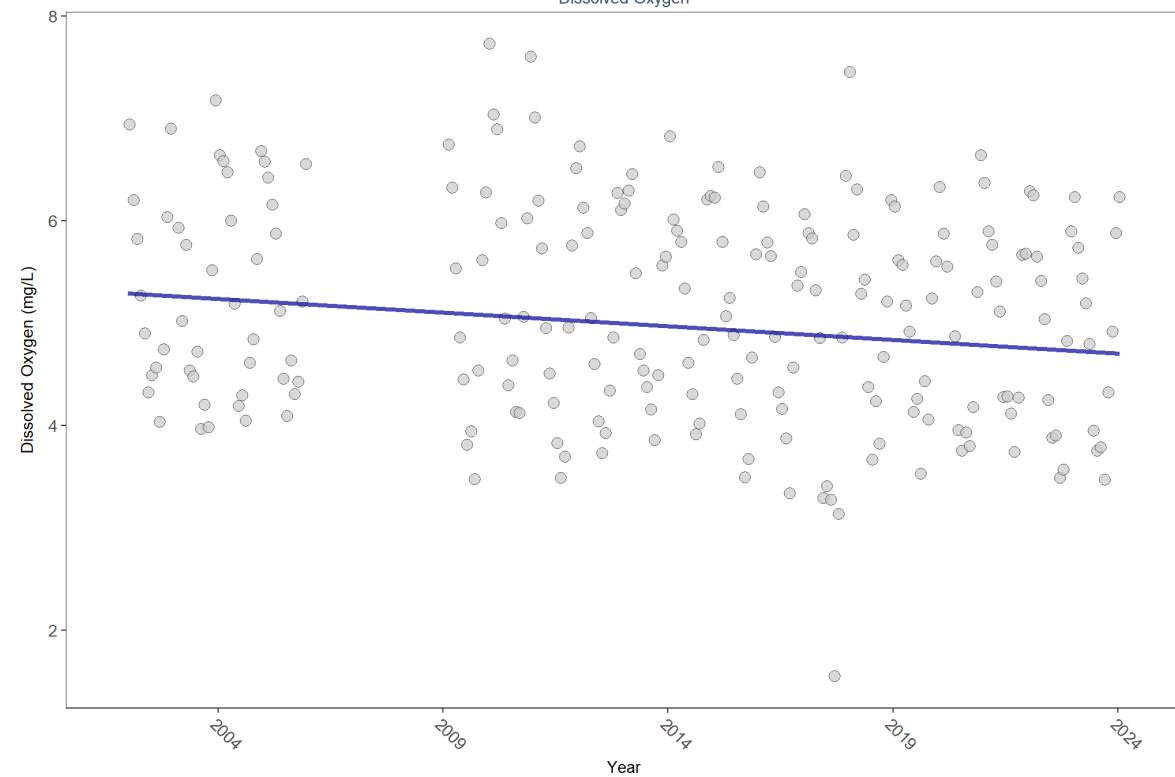
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	549144	21	5.5	TRUE	0.0191	0.6560	0.002343171	5.491005	20.7278	0.0363	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbftuwq

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Dissolved Oxygen



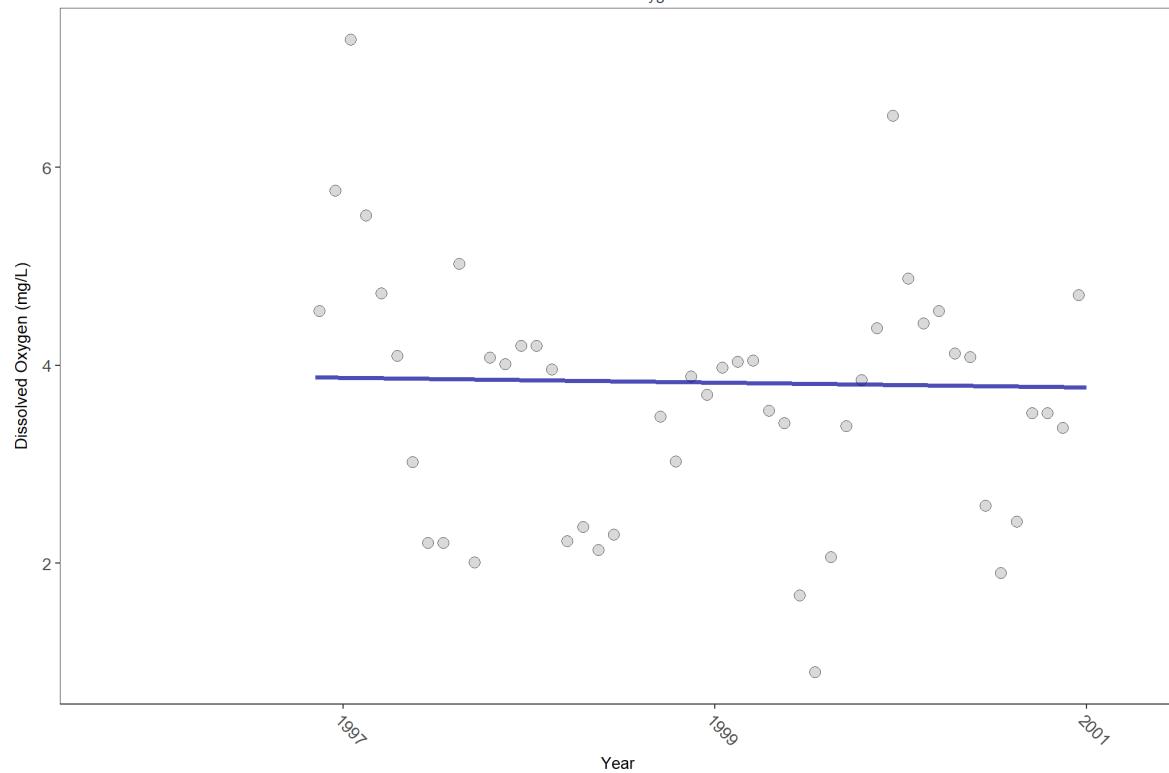
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	568567	20	5.1	TRUE	-0.3134	0.0000	-0.02688907	5.292392	7.7285	0.7374	-1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbuhwq

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 rkbuhwq
 Dissolved Oxygen



RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	58164	5	3.6	TRUE	0.0069	1.0000	-0.02463529	3.901659	8.2405	0.6916	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

All Stations Combined

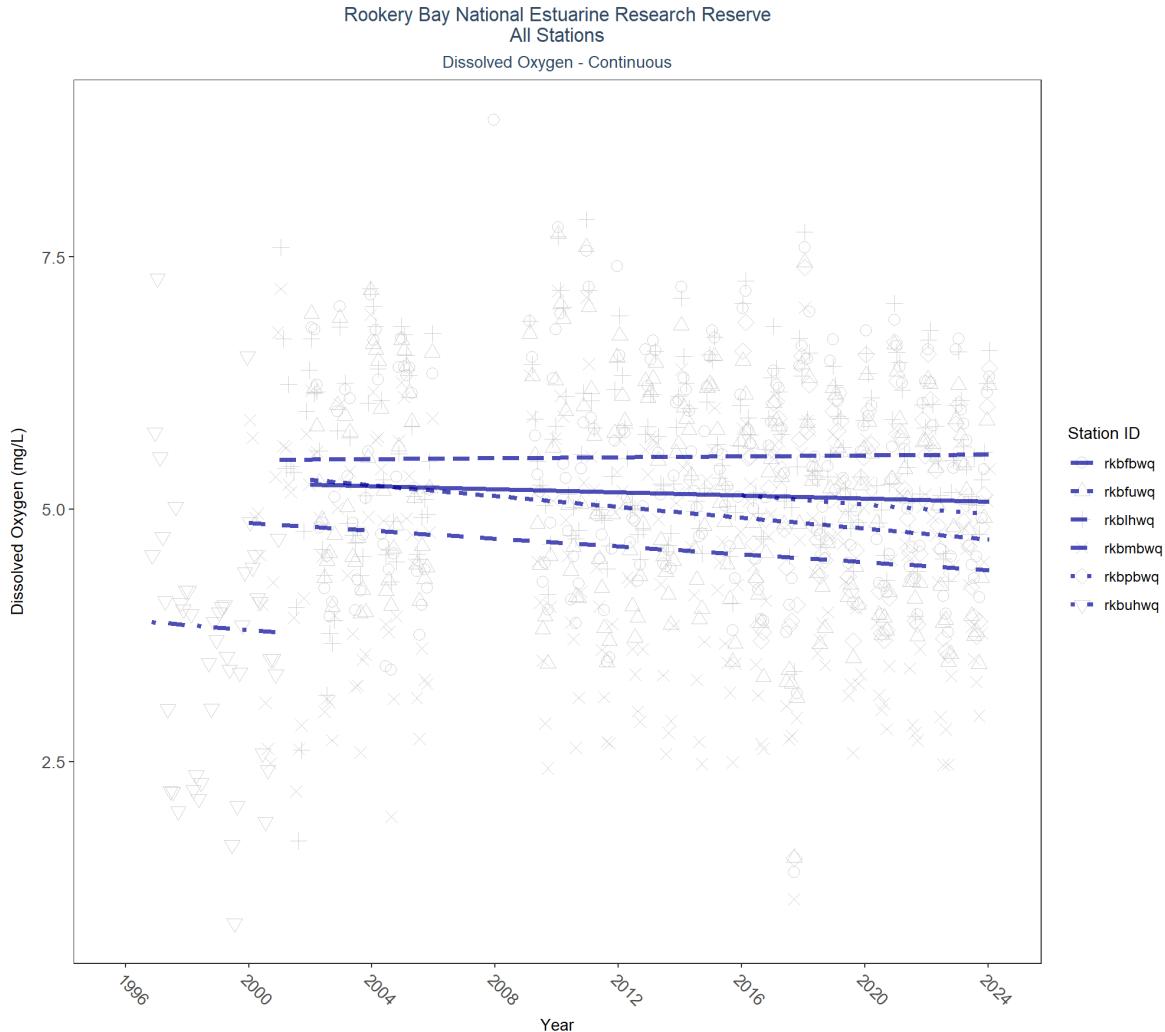


Table 1: Seasonal Kendall-Tau Results for All Stations - Dissolved Oxygen

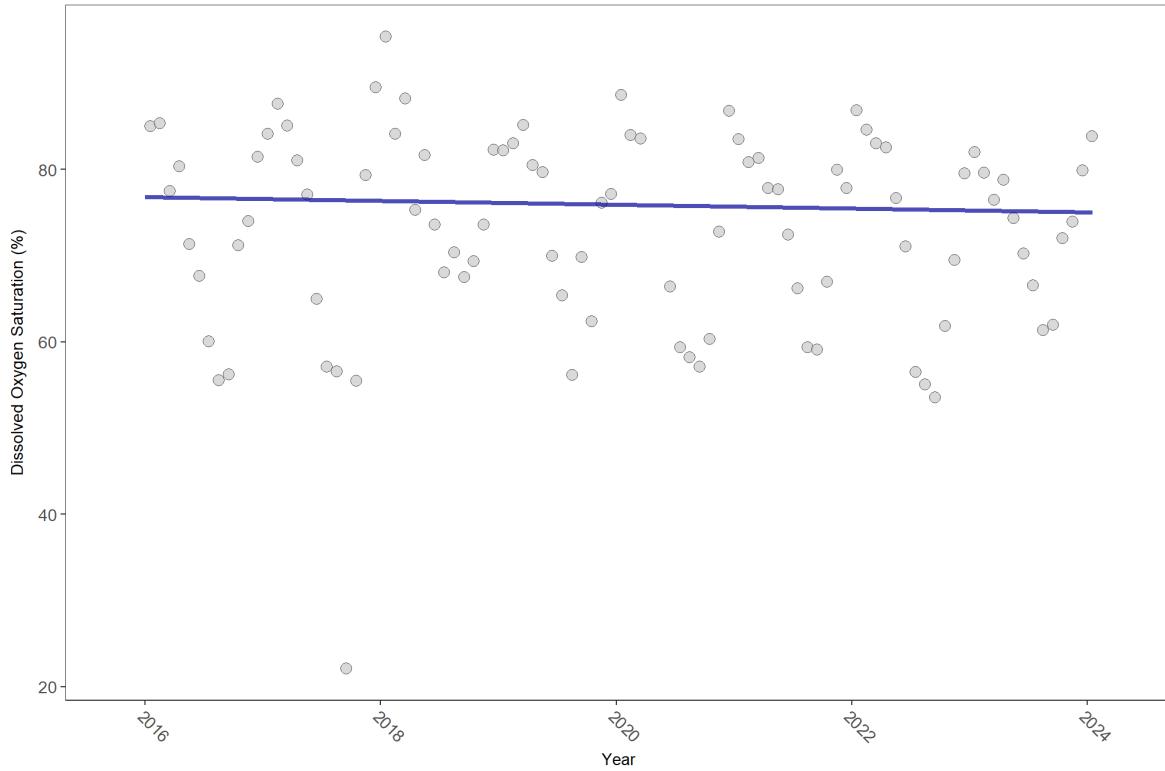
Station	N_Data	N_Years	Period of Record	Median	tau	SennIntercept	SennSlope	p
rkbpbwq	265255	9	2016 - 2024	5.0	-0.14	5.14	-0.02	0.1209
rkbmbwq	587313	22	2000 - 2024	4.4	-0.22	4.86	-0.02	0.0000
rkbfbwq	533434	21	2002 - 2024	5.4	-0.06	5.25	-0.01	0.2007
rkbhwq	549144	21	2001 - 2024	5.5	0.02	5.49	0	0.6560
rkbfuwq	568567	20	2002 - 2024	5.1	-0.31	5.29	-0.03	0.0000
rkbuhwq	58164	5	1996 - 2000	3.6	0.01	3.9	-0.02	1.0000

Station	N_Data	N_Years	Period of Record	Median	tau	SennIntercept	SennSlope	p
rkbbmwq	10441	2	1997 - 1998	7.2	-	-	-	-

Dissolved Oxygen Saturation

rkbpbwq

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rkbpbwq
Dissolved Oxygen Saturation

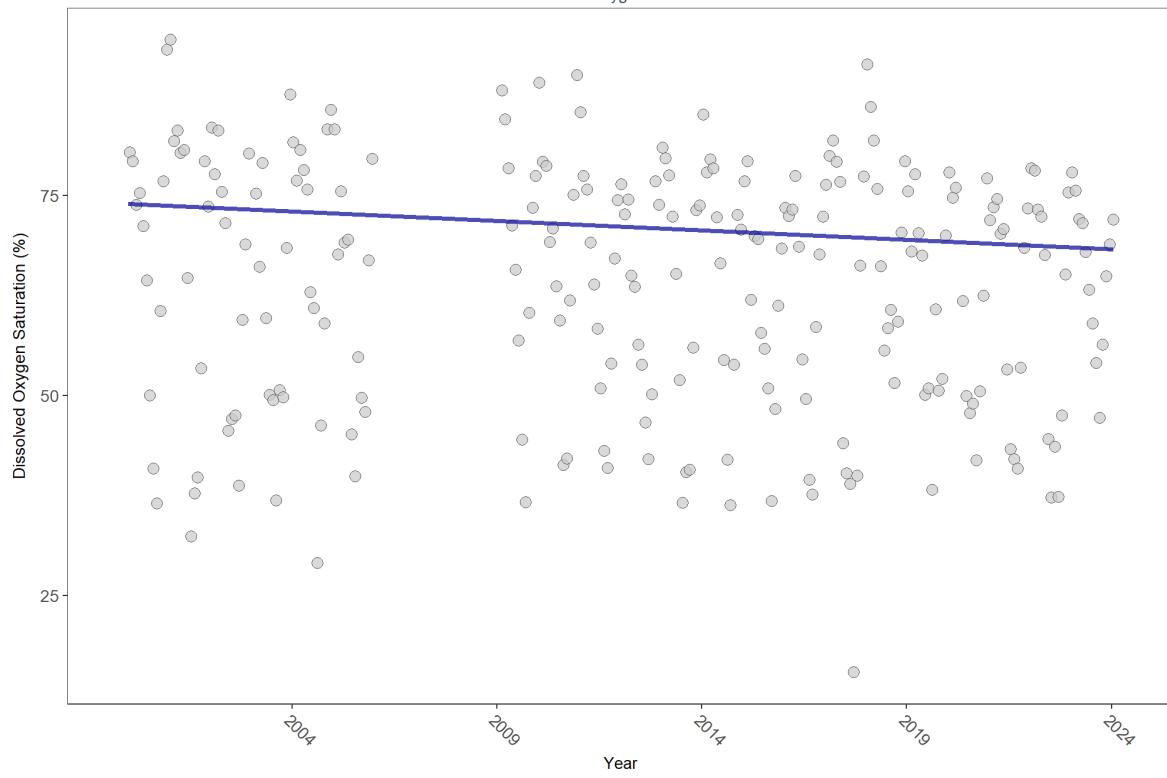


p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbmbwq

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 Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 rkbmbwq
 Dissolved Oxygen Saturation



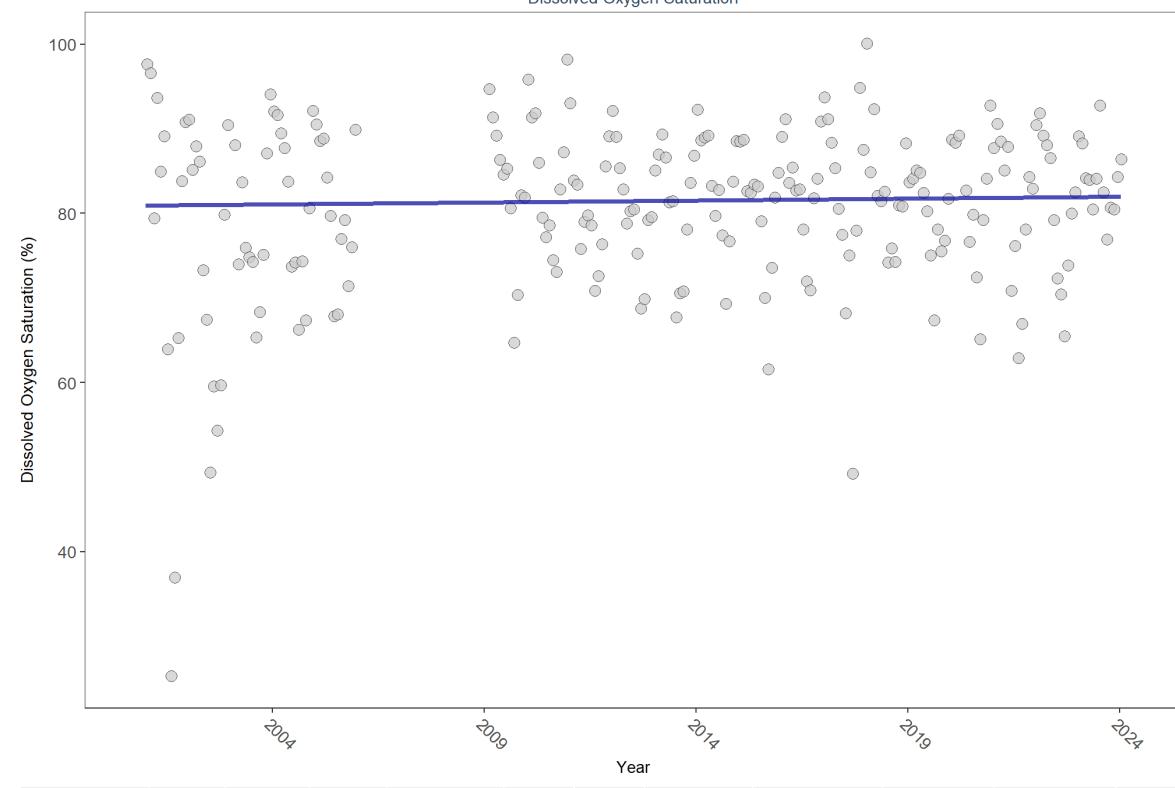
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	593607	22	65.4	TRUE	-0.1926	0.0000	-0.2366685	73.98255	18.5399	0.0699	-1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbhwq

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rkbhwq



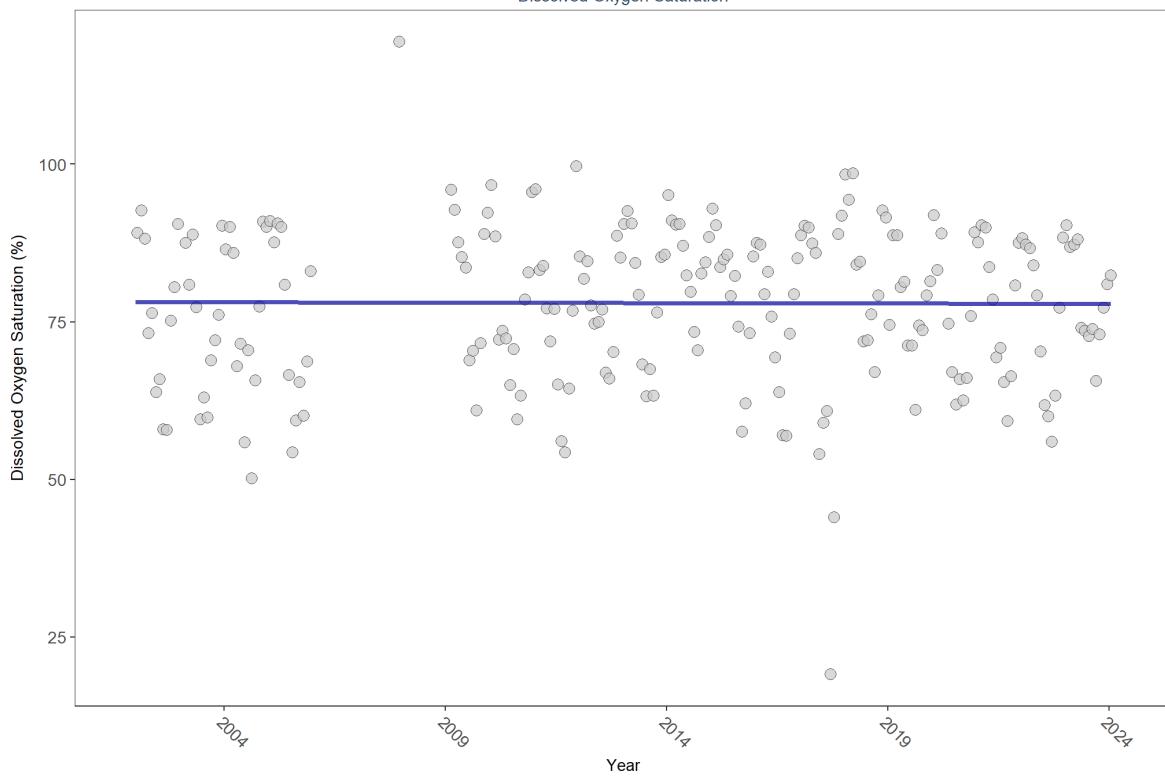
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	561462	21	81.9	TRUE	0.0411	0.3580	0.04493568	80.92275	23.55	0.0148	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbfbwq

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Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbfbwq
Dissolved Oxygen Saturation



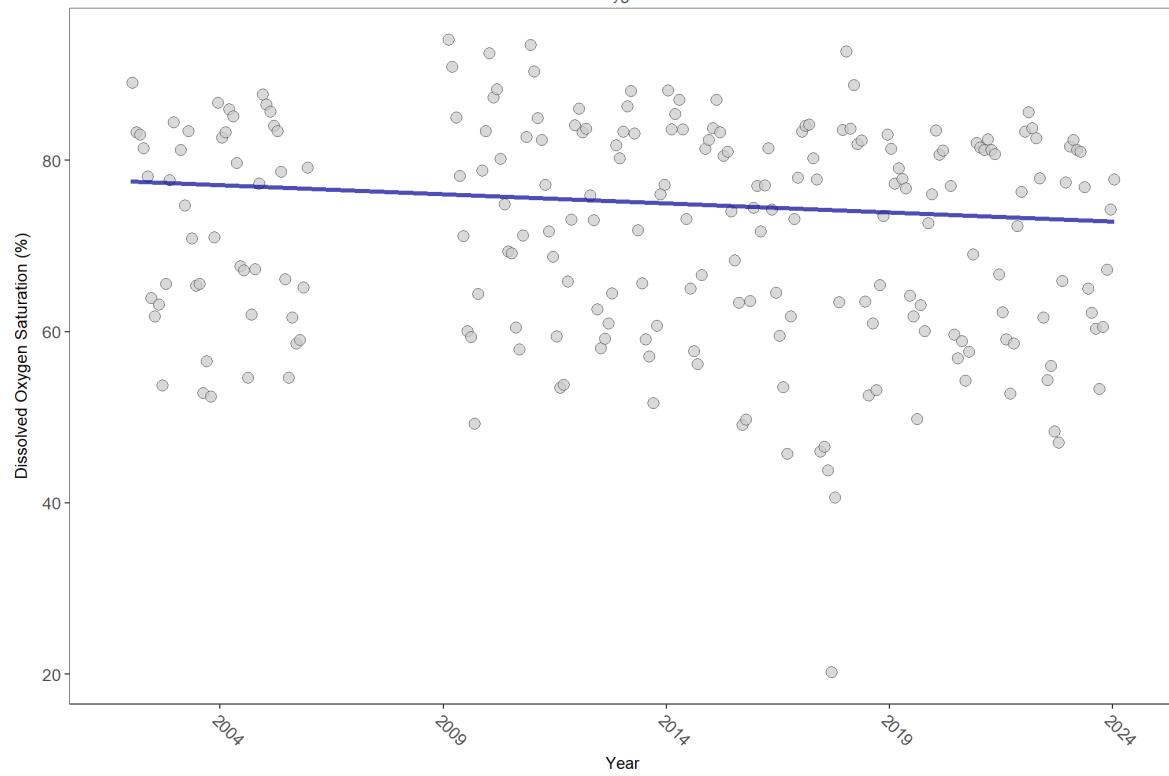
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	537719	21	78.6	TRUE	-0.002	0.9514	-0.01294134	78.13503	13.3462	0.2713	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbftuwq

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Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbftuwq
Dissolved Oxygen Saturation



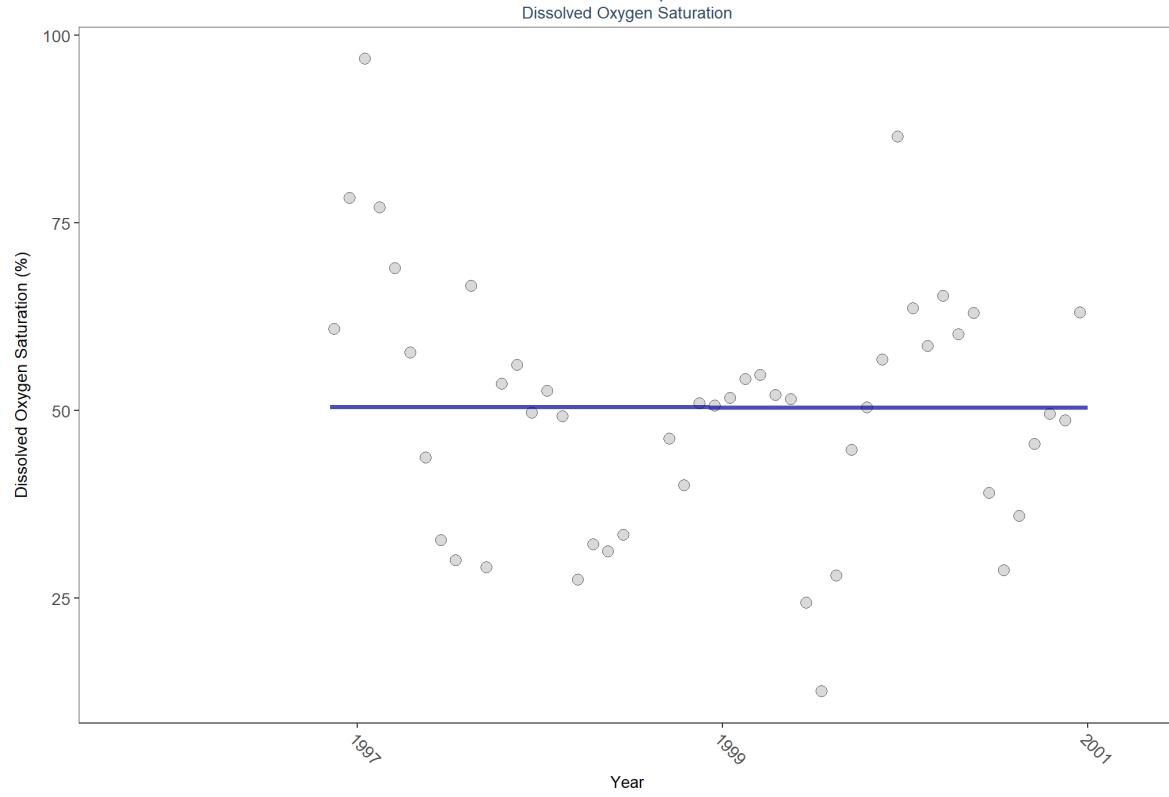
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	568826	20	72.5	TRUE	-0.2238	0.0000	-0.2137134	77.54466	9.3021	0.594	-1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbuhwq

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rkbuhwq



RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	58164	5	49.7	TRUE	0	1.0000	-0.02392129	50.52867	7.0993	0.791	0

$p < 0.00005$ appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

All Stations Combined

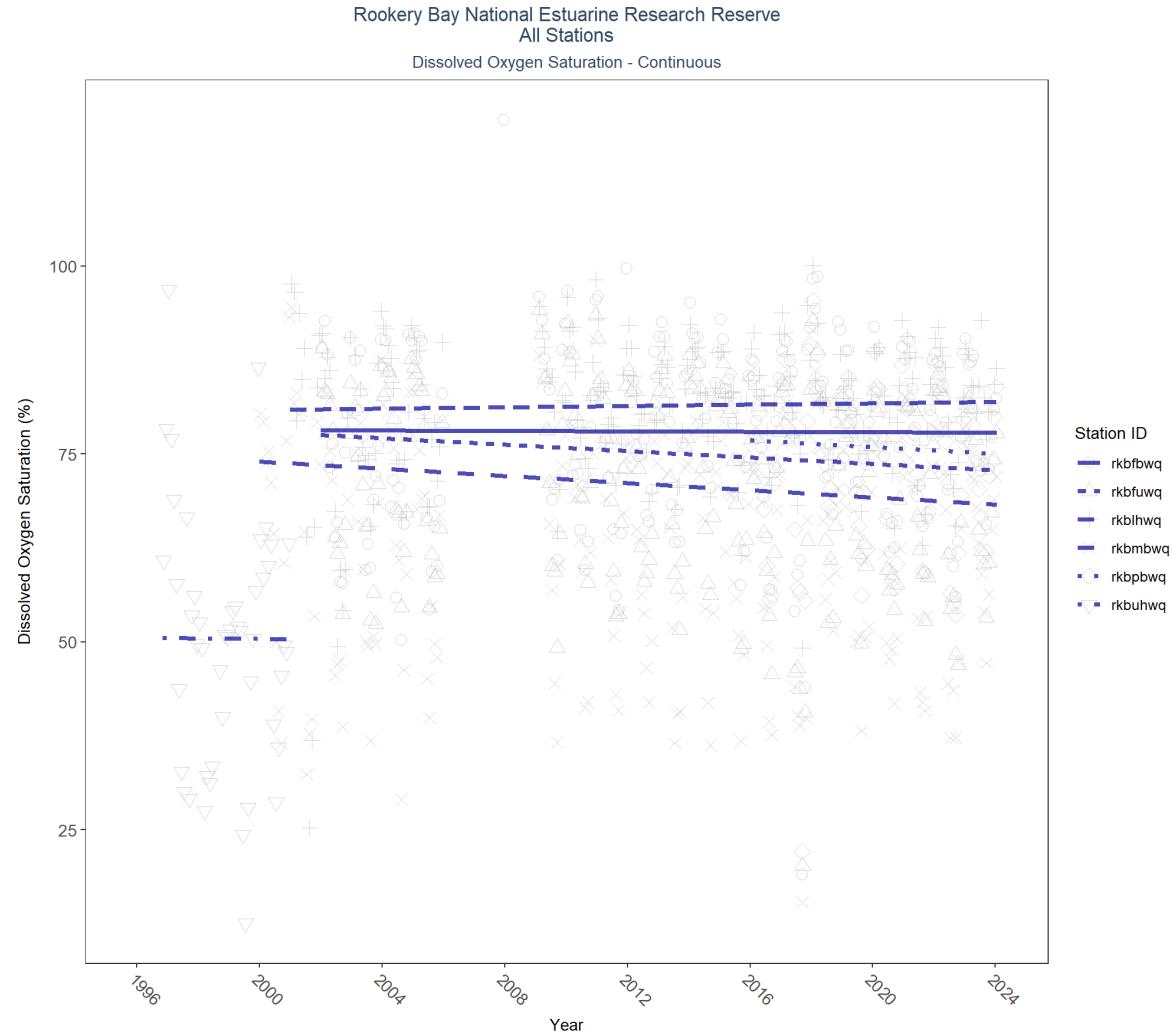


Table 2: Seasonal Kendall-Tau Results for All Stations - Dissolved Oxygen Saturation

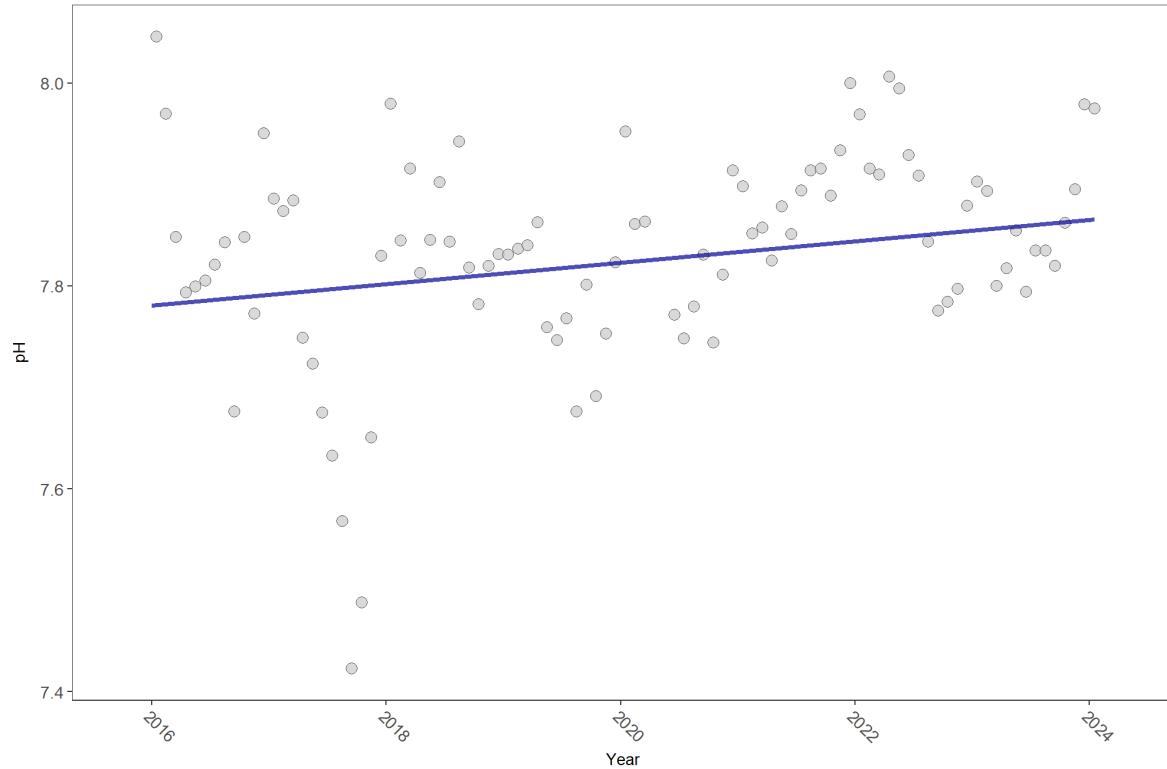
Station	N_Data	N_Years	Period of Record	Median	tau	SennIntercept	SennSlope	p
rkbpbwq	266877	9	2016 - 2024	72.8	-0.09	76.83	-0.23	0.2956
rkbmbwq	593607	22	2000 - 2024	65.4	-0.19	73.98	-0.24	0.0000
rkbhwq	561462	21	2001 - 2024	81.9	0.04	80.92	0.04	0.3580
rkbfbwq	537719	21	2002 - 2024	78.6	0	78.14	-0.01	0.9514
rkbfuwq	568826	20	2002 - 2024	72.5	-0.22	77.54	-0.21	0.0000
rkbuhwq	58164	5	1996 - 2000	49.7	0	50.53	-0.02	1.0000

Station	N_Data	N_Years	Period of Record	Median	tau	SennIntercept	SennSlope	p
rkbbmwq	10441	2	1997 - 1998	102.4	-	-	-	-

pH

rkbpbwq

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Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbpbwq
pH

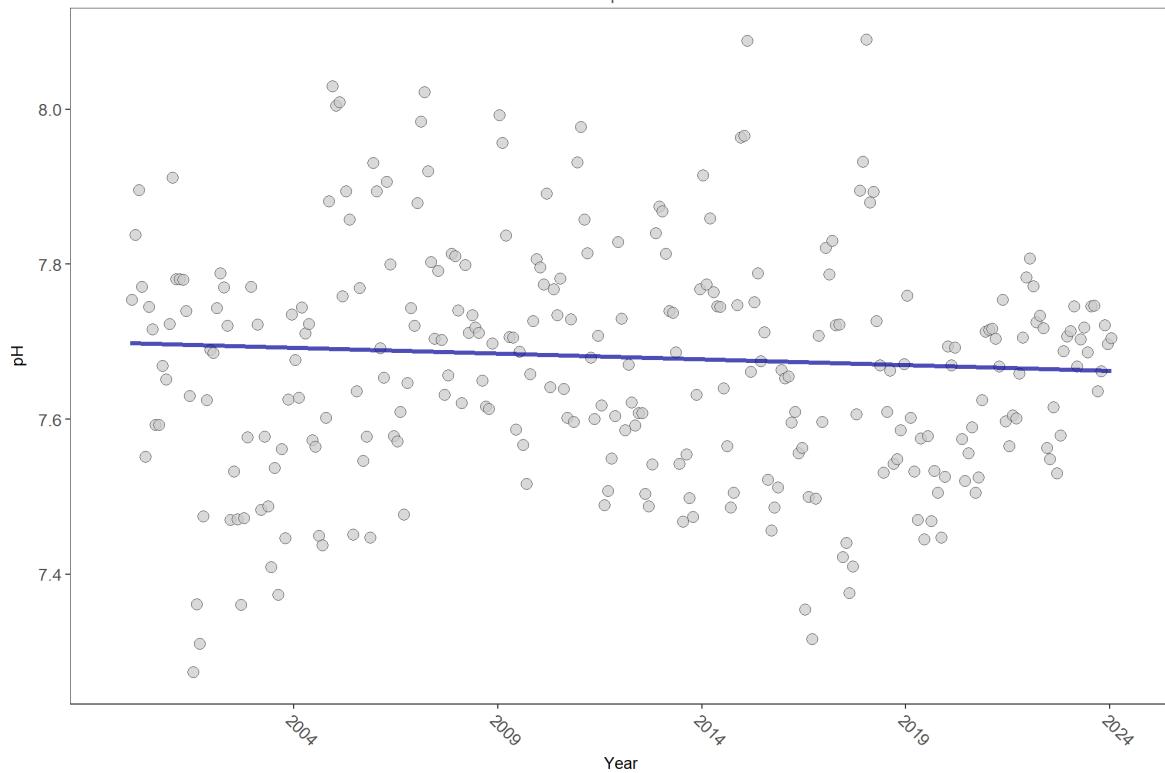


p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbmbwq

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Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbmbwq
pH

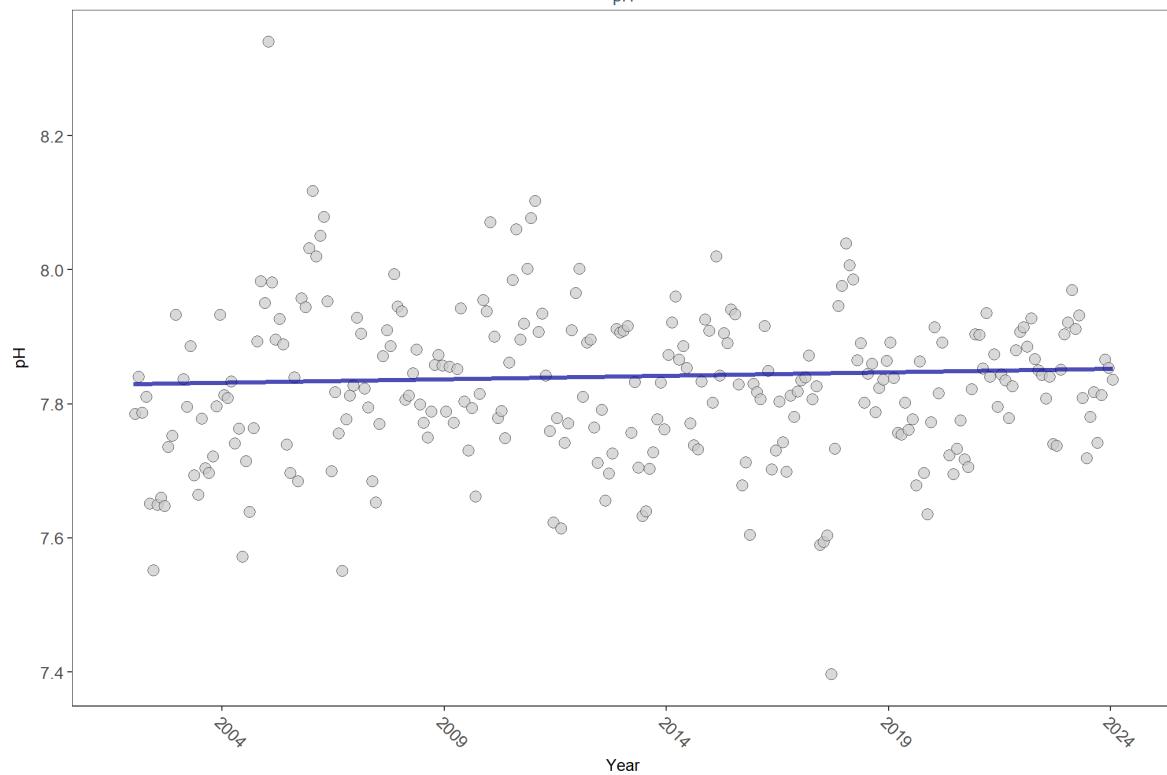


p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbfbwq

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Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbfbwq
pH



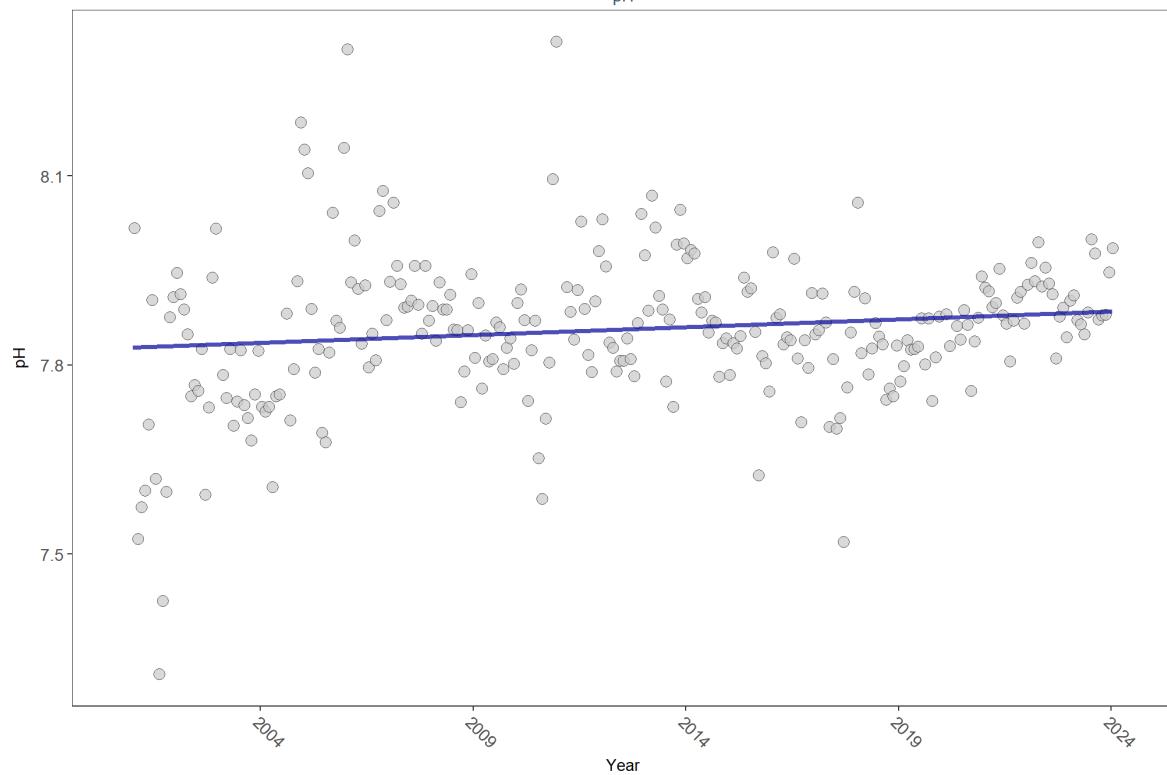
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	600183	23	7.8	TRUE	0.0535	0.2322	0.00106079	7.82921	14.627	0.2002	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbhwq

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Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbhwq
pH



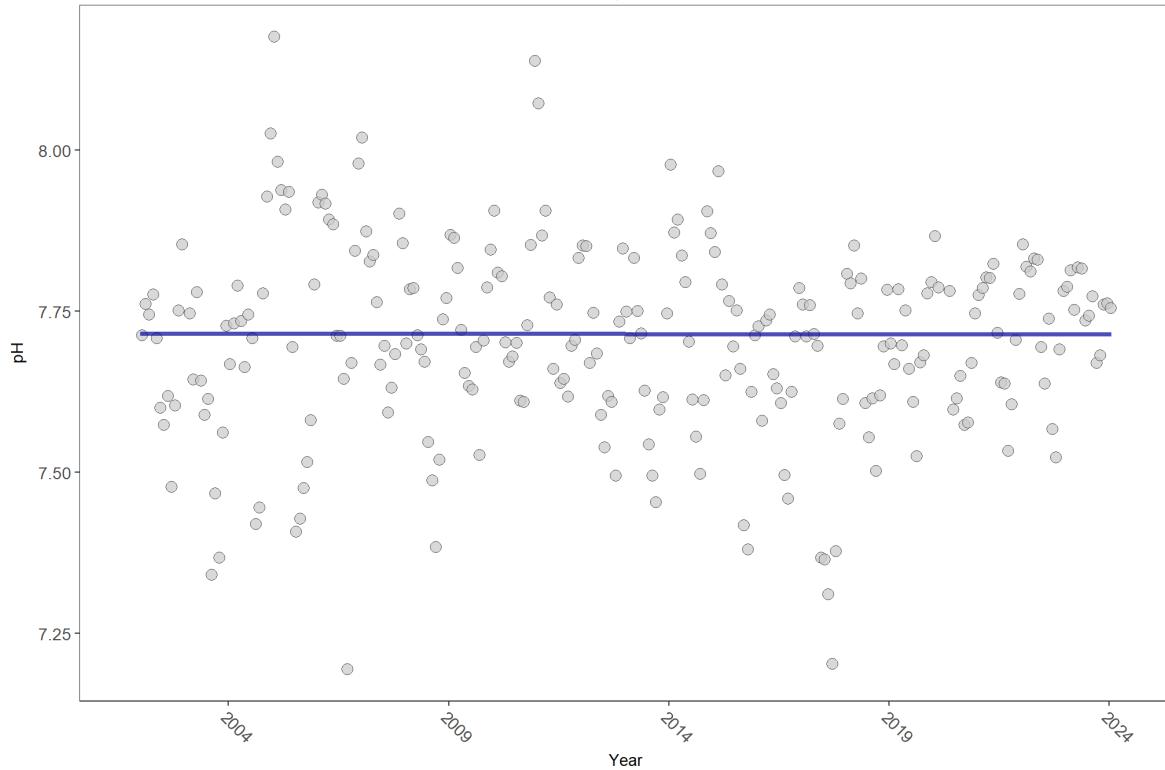
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	608282	24	7.9	TRUE	0.1249	0.0042	0.002492506	7.827925	17.0101	0.1076	1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbewq

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 Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 rkbewq
 pH



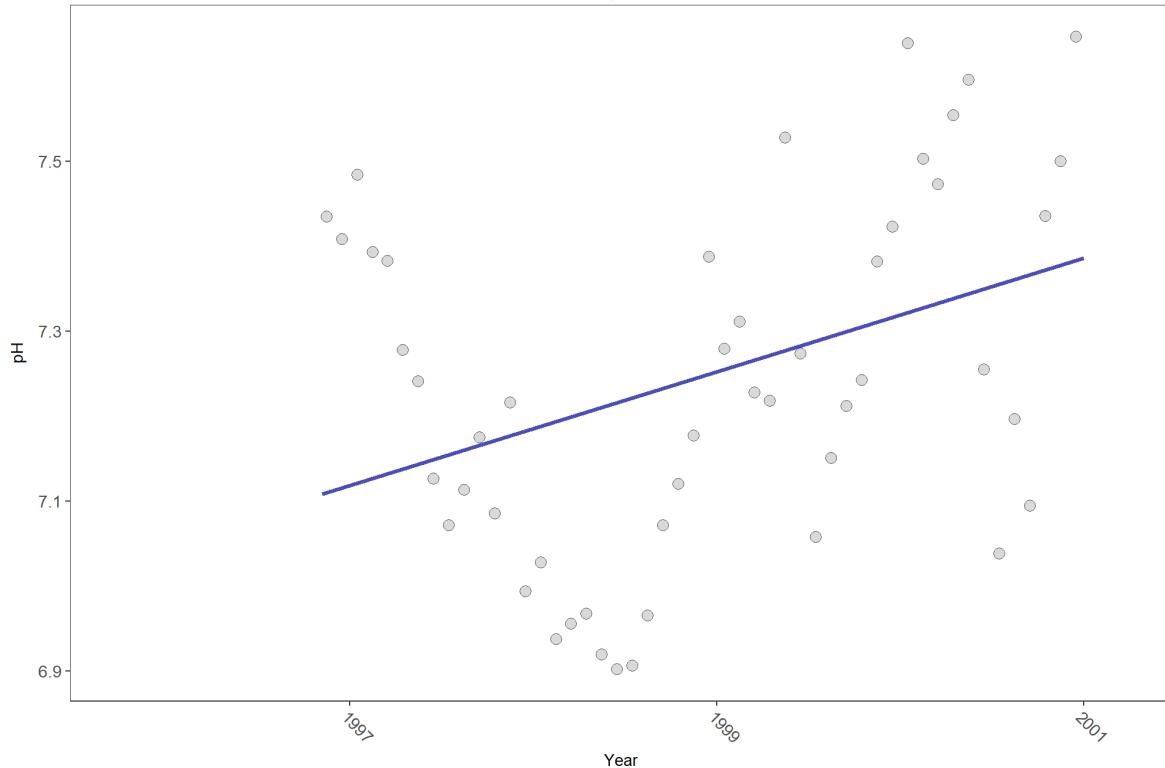
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	623866	23	7.7	TRUE	-0.0021	0.9803	-0.0000416198	7.715122	18.8823	0.0632	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbuhwq

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 Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 rkbuhwq
 pH



p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

All Stations Combined

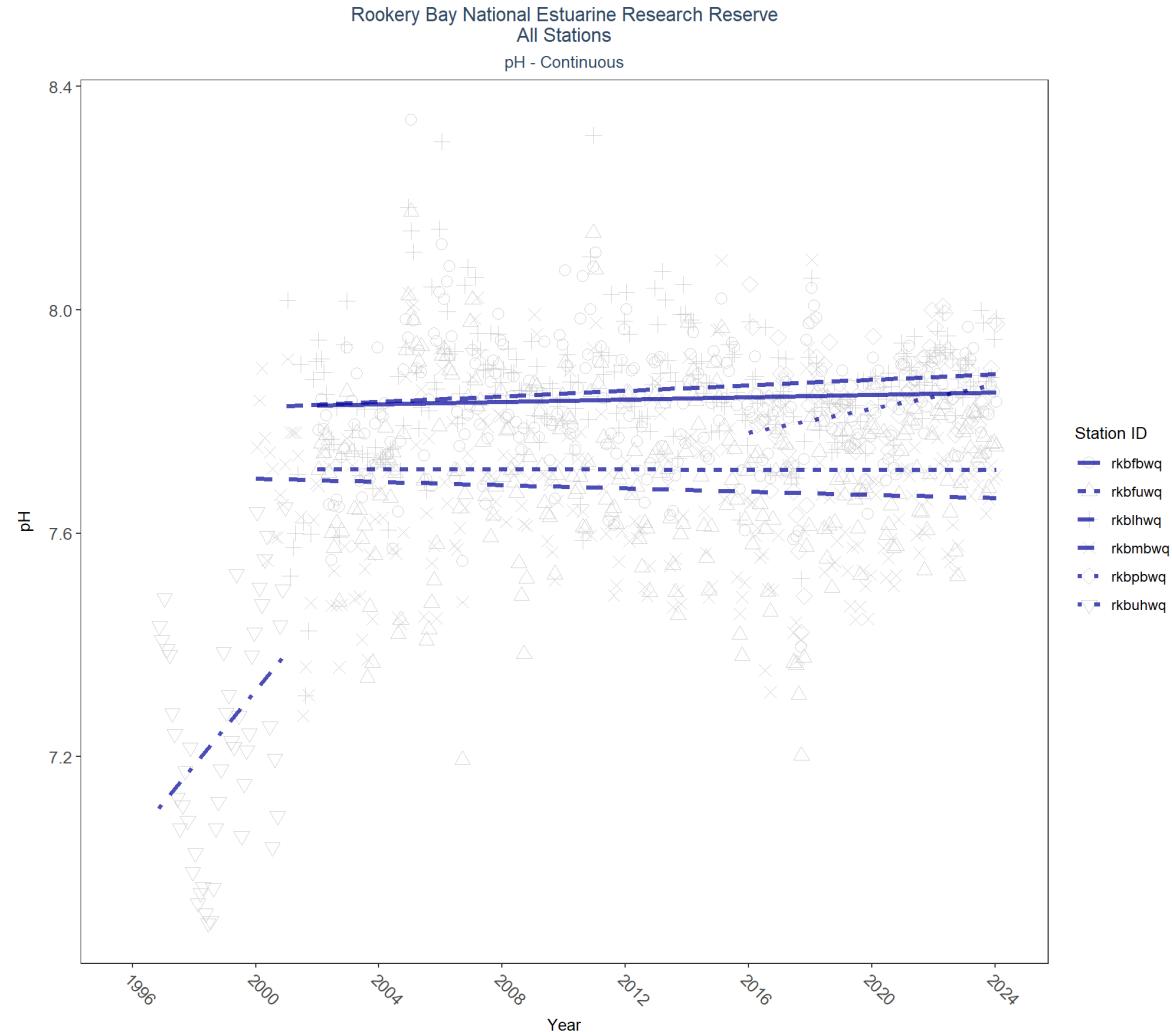


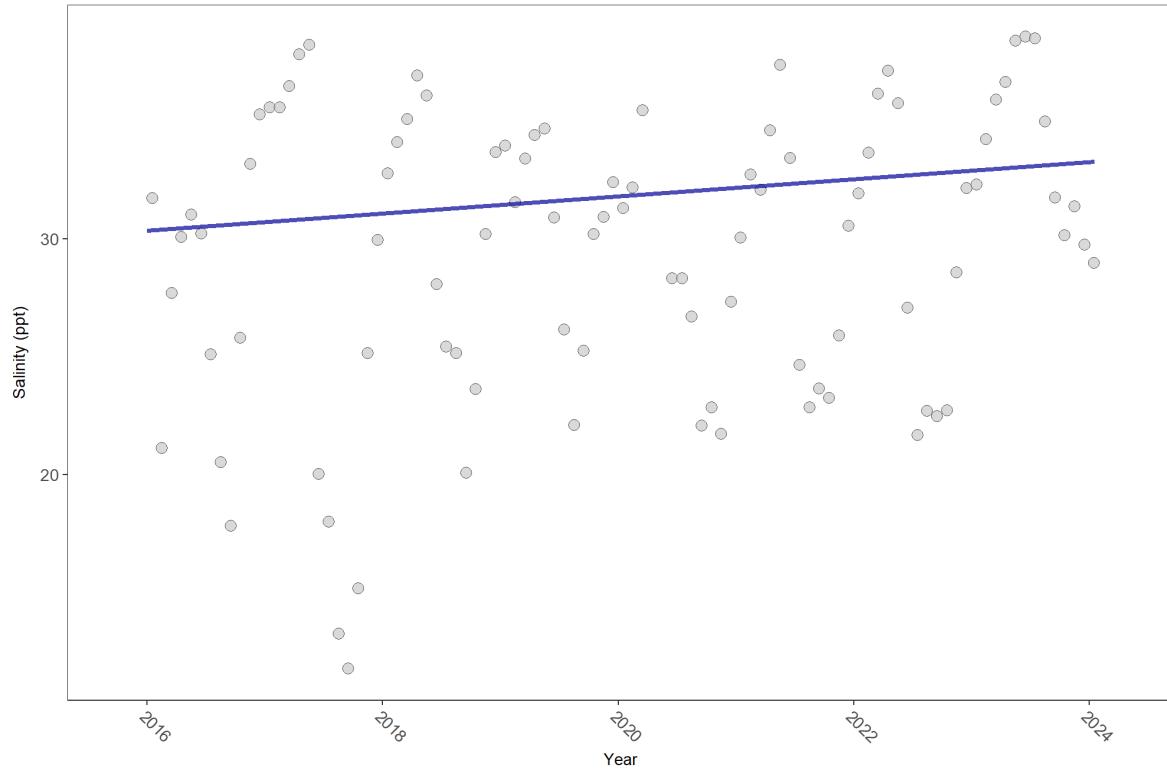
Table 3: Seasonal Kendall-Tau Results for All Stations - pH

Station	N_Data	N_Years	Period of Record	Median	tau	SennIntercept	SennSlope	p
rkbpbwq	258730	9	2016 - 2024	7.8	0.26	7.78	0.01	0.0035
rkbmbwq	657568	25	2000 - 2024	7.7	-0.07	7.7	0	0.1270
rkbfbwq	600183	23	2002 - 2024	7.8	0.05	7.83	0	0.2322
rkbhwq	608282	24	2001 - 2024	7.9	0.12	7.83	0	0.0042
rkbfuwq	623866	23	2002 - 2024	7.7	0	7.72	0	0.9803
rkbuhwq	65814	5	1996 - 2000	7.2	0.37	7.05	0.07	0.0081
rkbmbwq	12610	2	1997 - 1998	8.0	-	-	-	-

Salinity

rkbpbwq

Rookery Bay National Estuarine Research Reserve
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Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbpbwq
Salinity



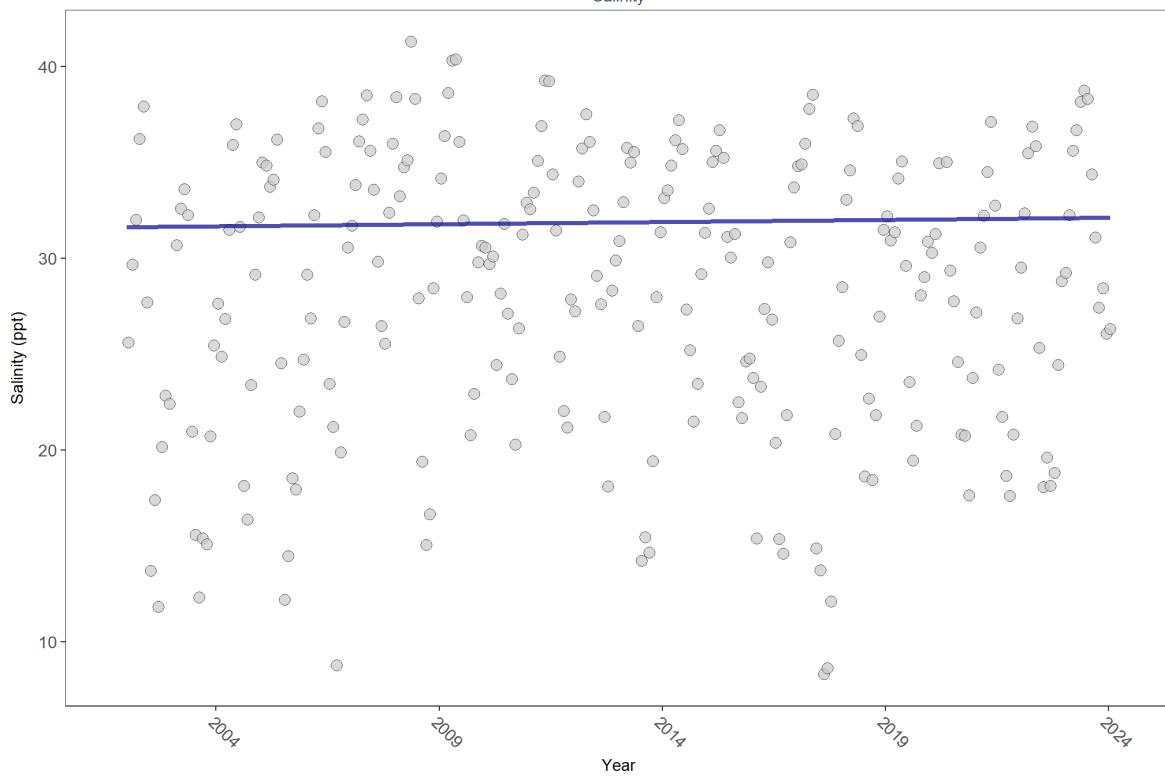
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	265563	9	30.5	TRUE	0.1546	0.0900	0.3607148	30.35187	14.1483	0.2249	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbfbwq

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Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbfbwq
Salinity



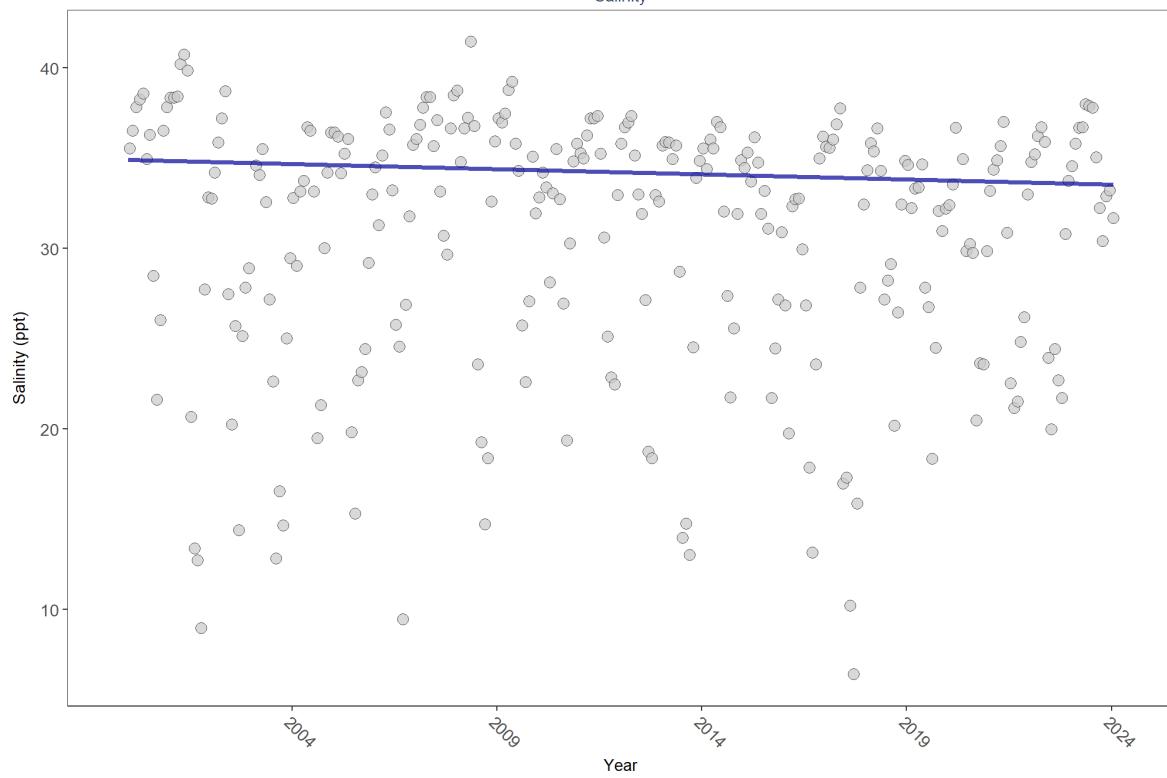
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	632702	23	29.9	TRUE	0.024	0.6004	0.02121711	31.63733	6.8237	0.8132	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbmbwq

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 Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 rkbmbwq
 Salinity

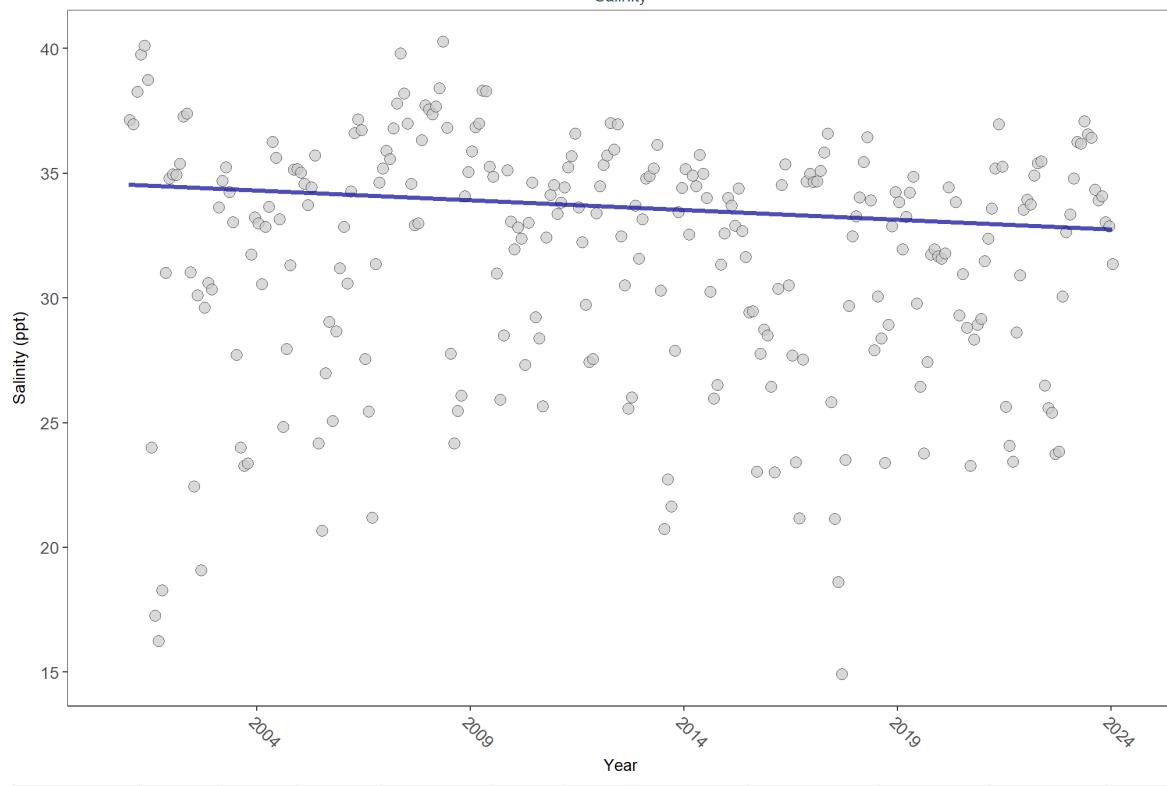


p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbhwq

Rookery Bay National Estuarine Research Reserve
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 Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 rkbhwq
 Salinity

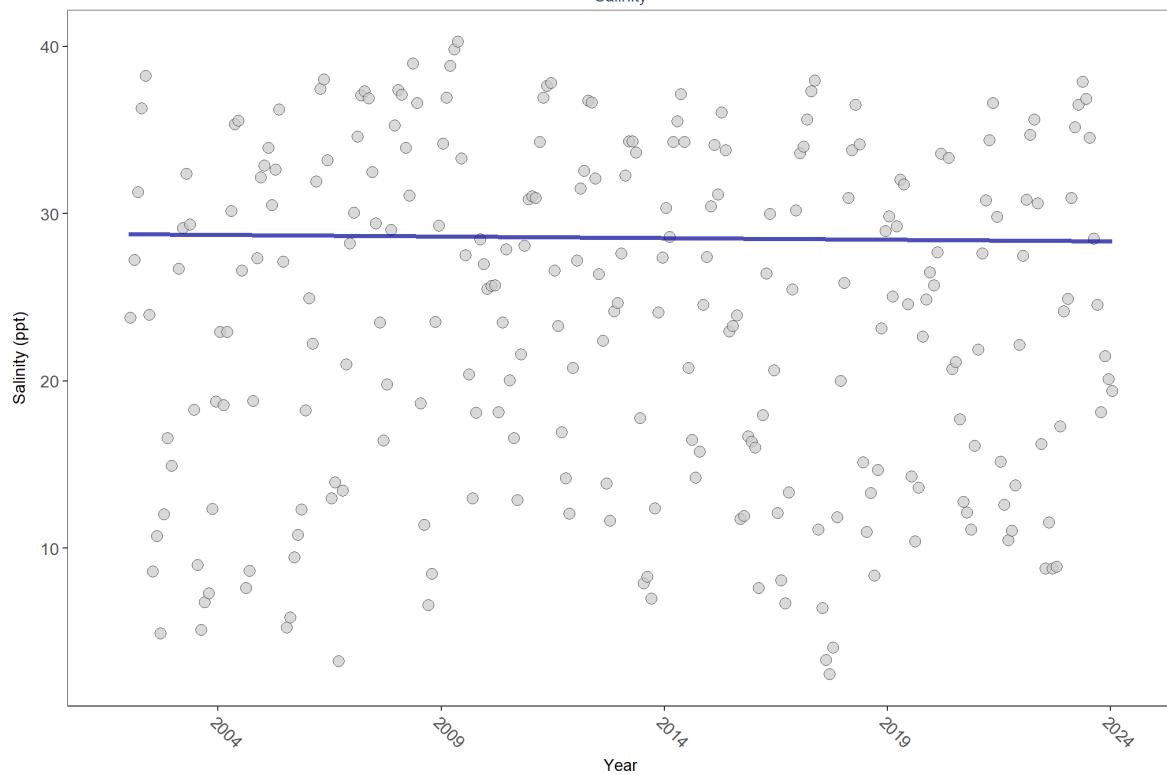


p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbftuwq

Rookery Bay National Estuarine Research Reserve
354
Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbftuwq
Salinity



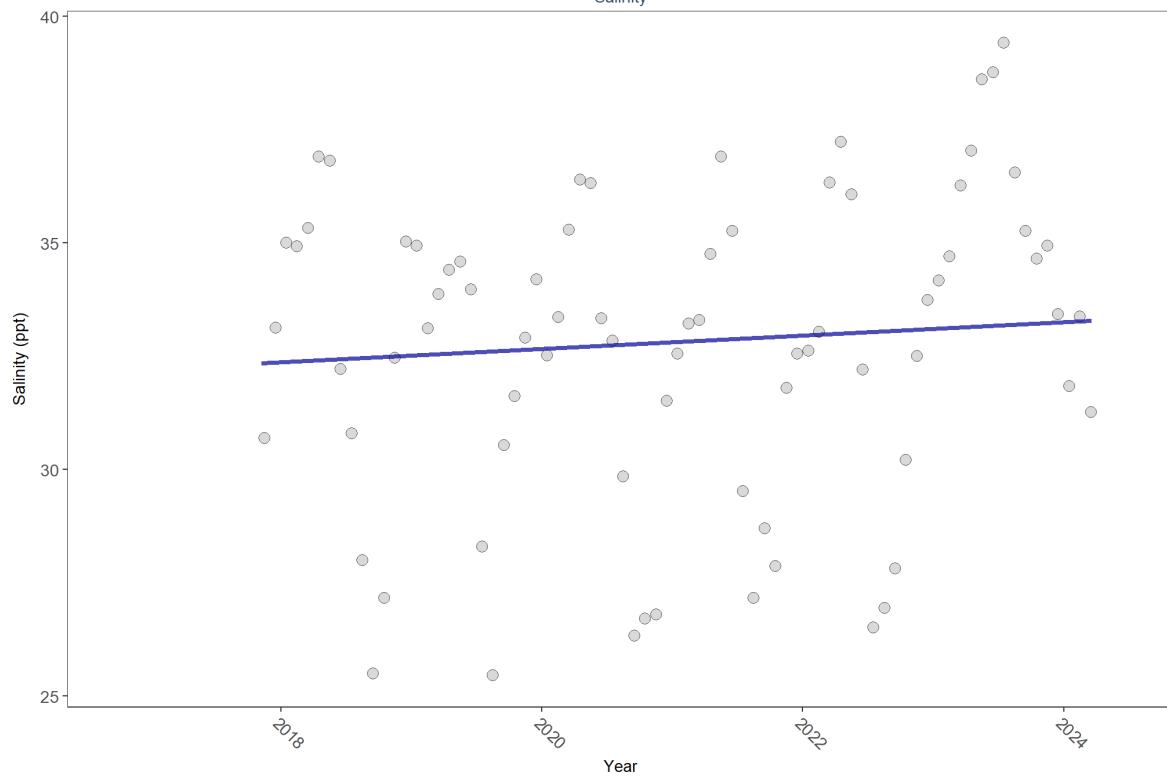
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	649121	23	26.3	TRUE	-0.0162	0.7188	-0.01908569	28.79302	8.9425	0.6272	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

255138081321701

Rookery Bay National Estuarine Research Reserve
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National Water Information System
255138081321701
Salinity



RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
surface	2288	8	33	TRUE	0.1411	0.2225	0.1468586	32.21864	8.3328	0.6832	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

255654081350200

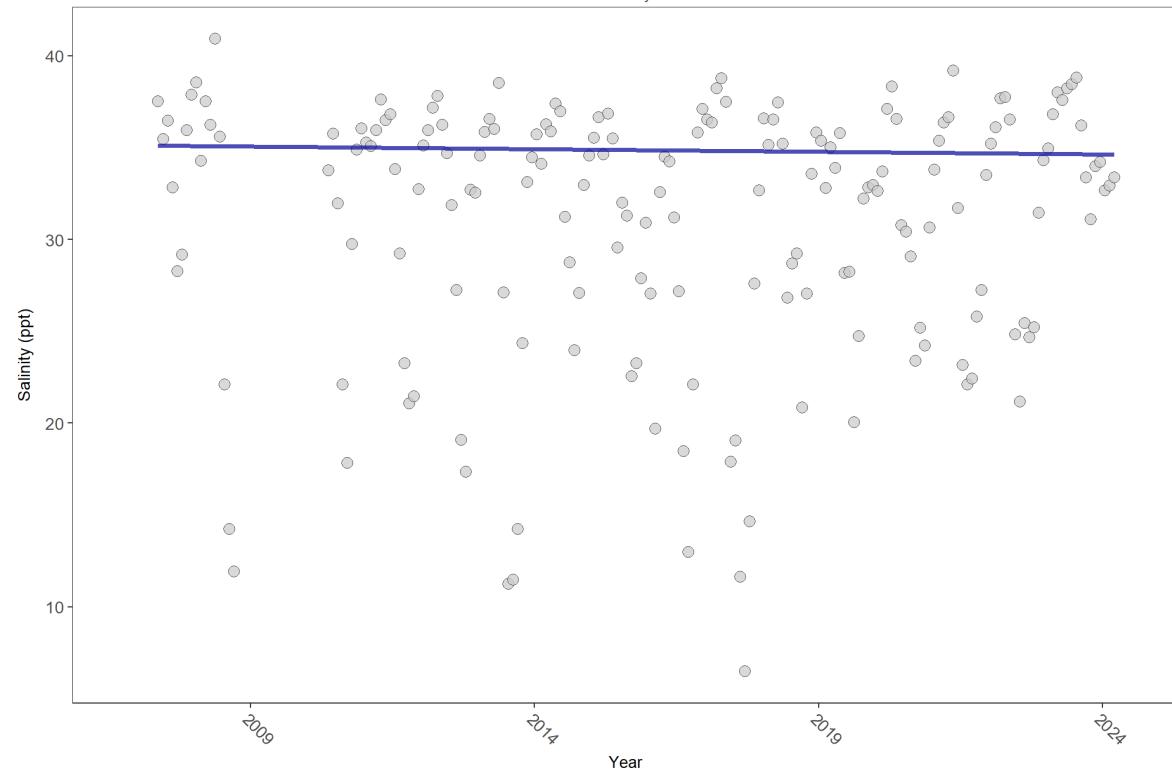
Rookery Bay National Estuarine Research Reserve

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National Water Information System

255654081350200

Salinity



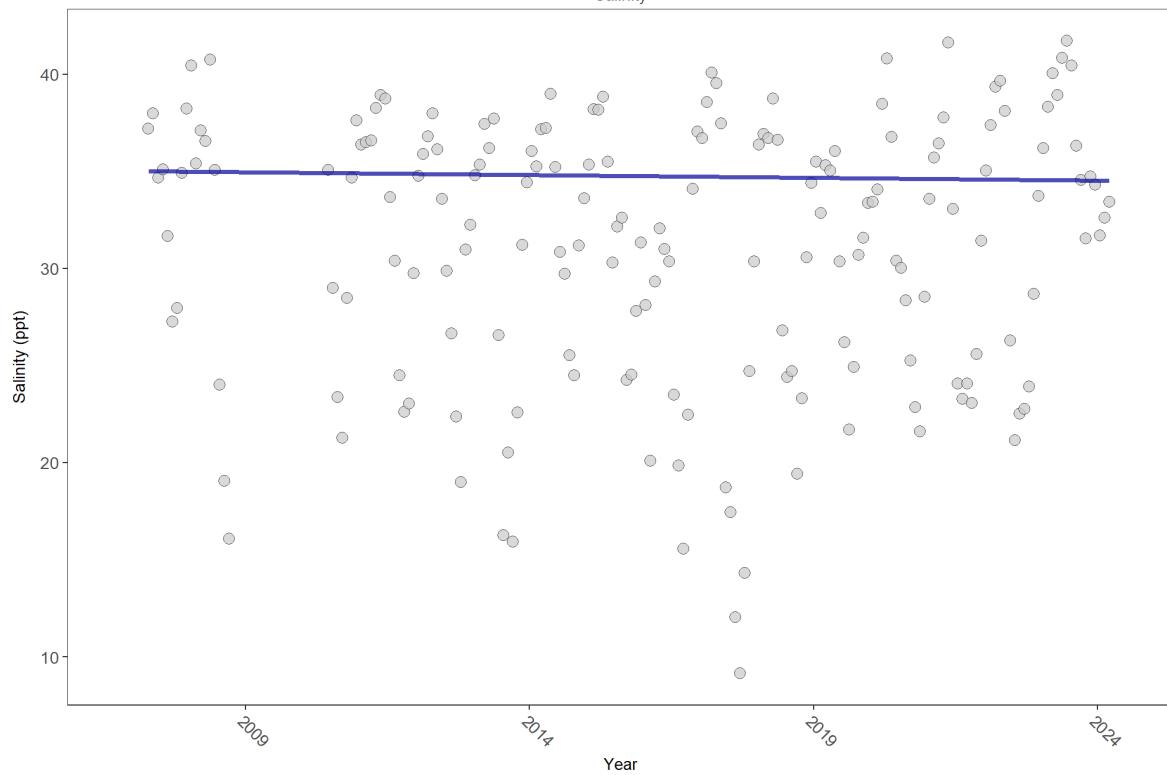
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
surface	5992	17	34	TRUE	-0.039	0.4902	-0.02903226	35.12257	9.1204	0.6108	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

255534081324000

Rookery Bay National Estuarine Research Reserve
7
National Water Information System
255534081324000
Salinity



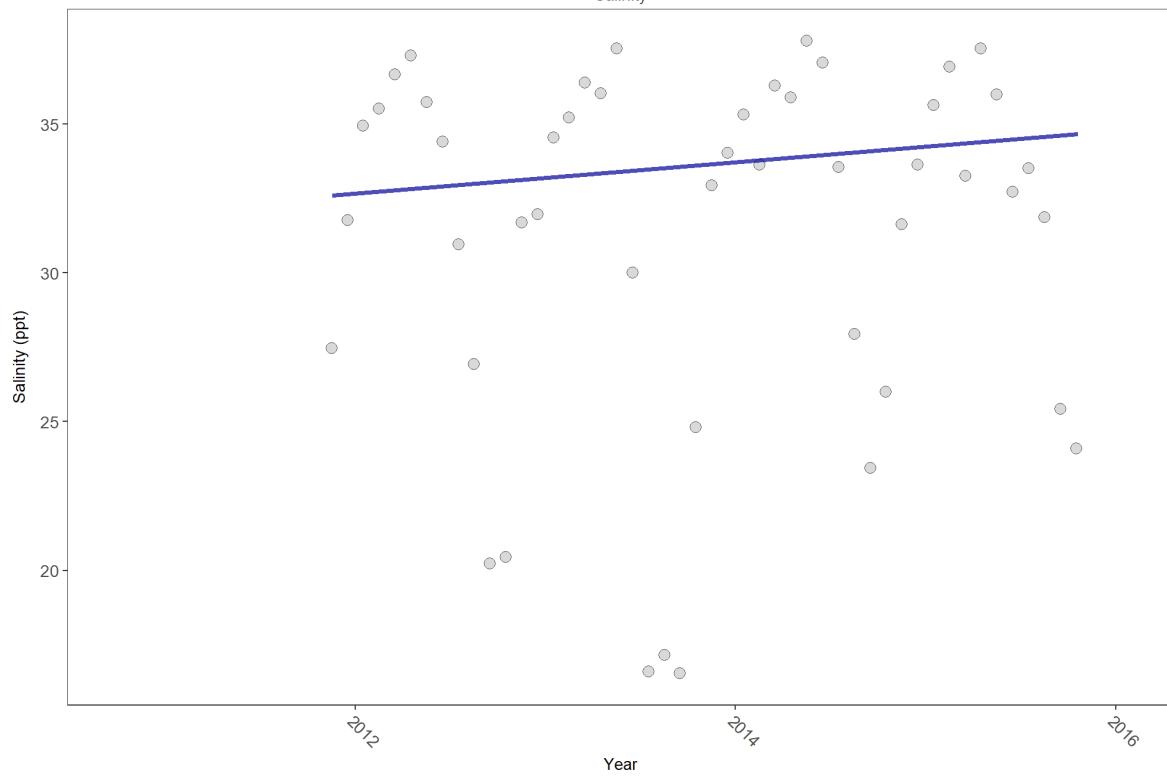
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
surface	5987	17	33	TRUE	-0.0261	0.6385	-0.02965352	35.03156	8.4654	0.6711	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

255732081363700

Rookery Bay National Estuarine Research Reserve
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National Water Information System
255732081363700
Salinity



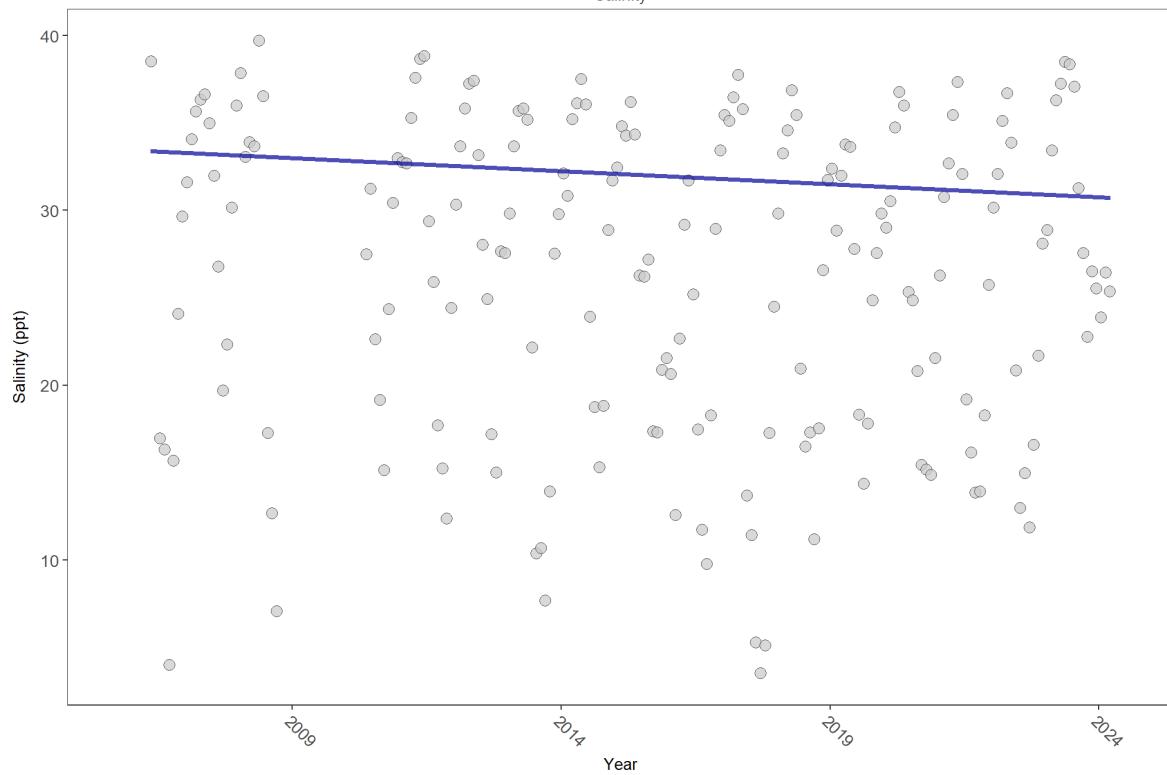
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
surface	1434	5	34	TRUE	0.25	0.0955	0.5241935	32.15206	10.2692	0.5063	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

255432081303900

Rookery Bay National Estuarine Research Reserve
7
National Water Information System
255432081303900
Salinity



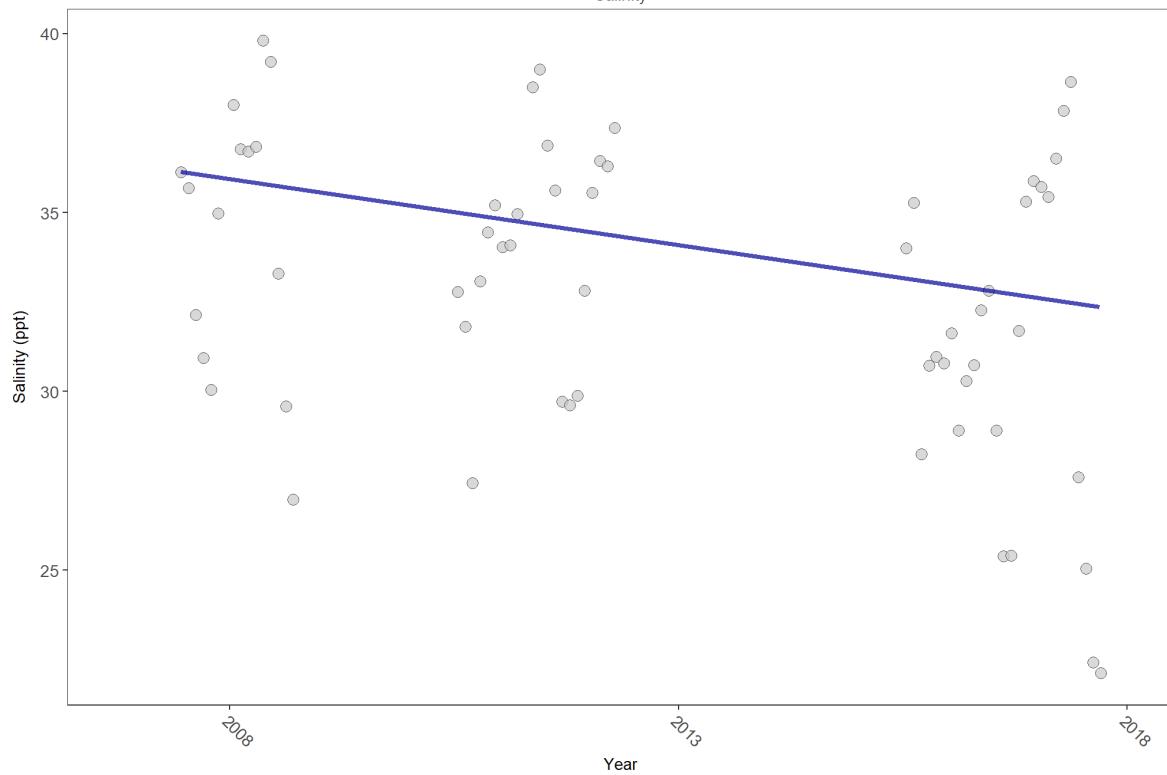
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
surface	6582	18	29	TRUE	-0.1445	0.0072	-0.1496599	33.44656	8.7021	0.6494	-1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

255123081321300

Rookery Bay National Estuarine Research Reserve
7
National Water Information System
255123081321300
Salinity



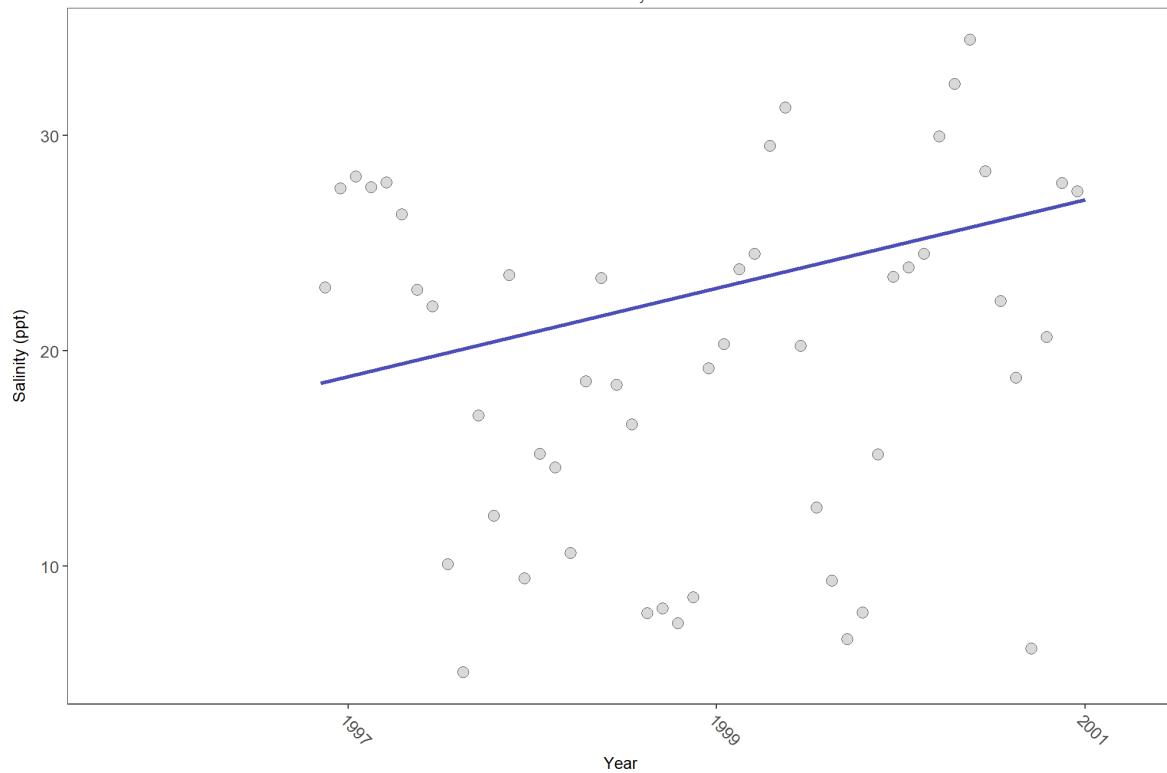
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
surface	1809	8	34	TRUE	-0.2487	0.0129	-0.3686275	36.29955	6.8924	0.8077	-1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbuhwq

Rookery Bay National Estuarine Research Reserve
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 Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 rkbuhwq
 Salinity



RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	68446	5	21.1	TRUE	0.3067	0.0358	2.056651	16.74151	12.9829	0.2944	1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

All Stations Combined by Program

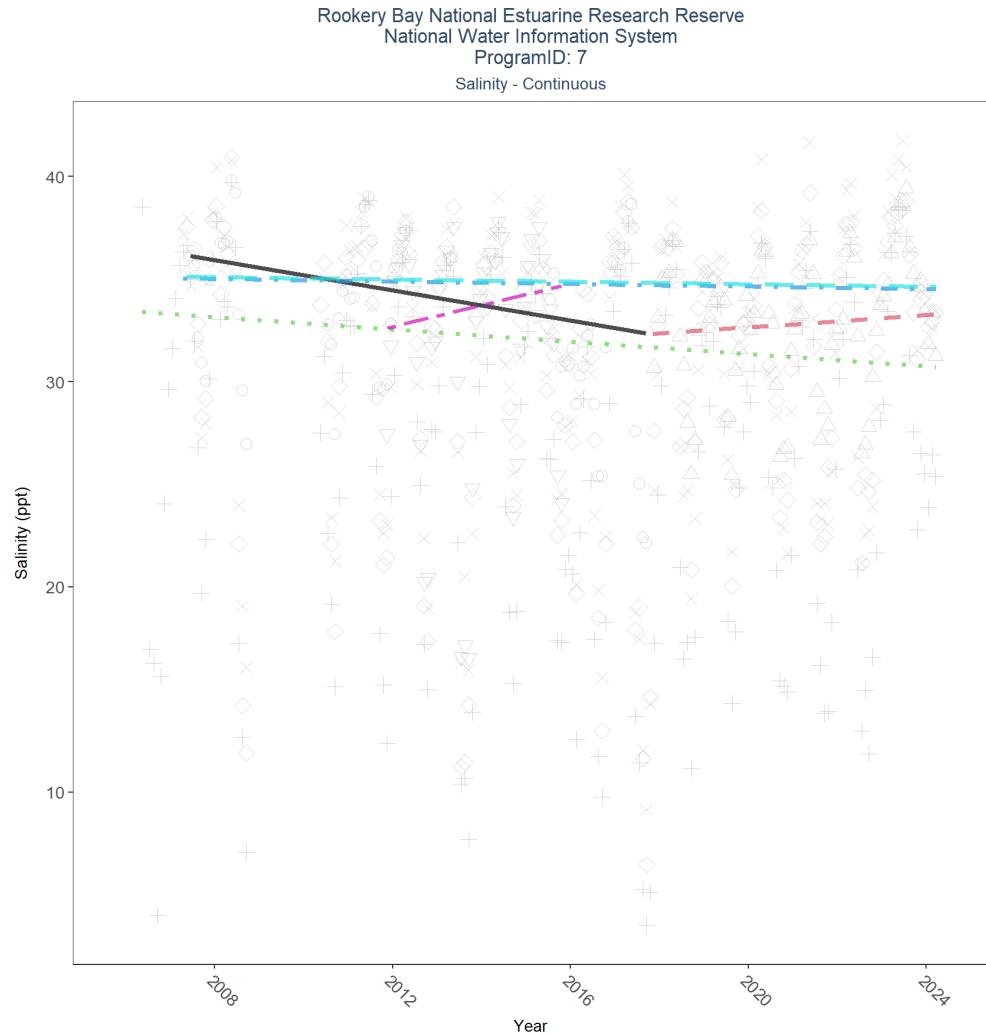


Table 4: Seasonal Kendall-Tau Results for All Stations - Salinity

Station	N_Data	N_Years	Period of Record	Median	tau	SennIntercept	SennSlope	p
255138081321701	2288	8	2017 - 2024	33	0.14	32.22	0.15	0.2225
255654081350200	5992	17	2007 - 2024	34	-0.04	35.12	-0.03	0.4902
255534081324000	5987	17	2007 - 2024	33	-0.03	35.03	-0.03	0.6385
255443081314700	1465	4	2007 - 2011	32	-	-	-	-
02291330	1697	4	2011 - 2014	35	-	-	-	-
255732081363700	1434	5	2011 - 2015	34	0.25	32.15	0.52	0.0955
255432081303900	6582	18	2006 - 2024	29	-0.14	33.45	-0.15	0.0072

Station	N_Data	N_Years	Period of Record	Median	tau	SennIntercept	SennSlope	p
255123081321300	1809	8	2007 - 2017	34	-0.25	36.3	-0.37	0.0129
255532081314300	902	3	2009 - 2011	31	-	-	-	-

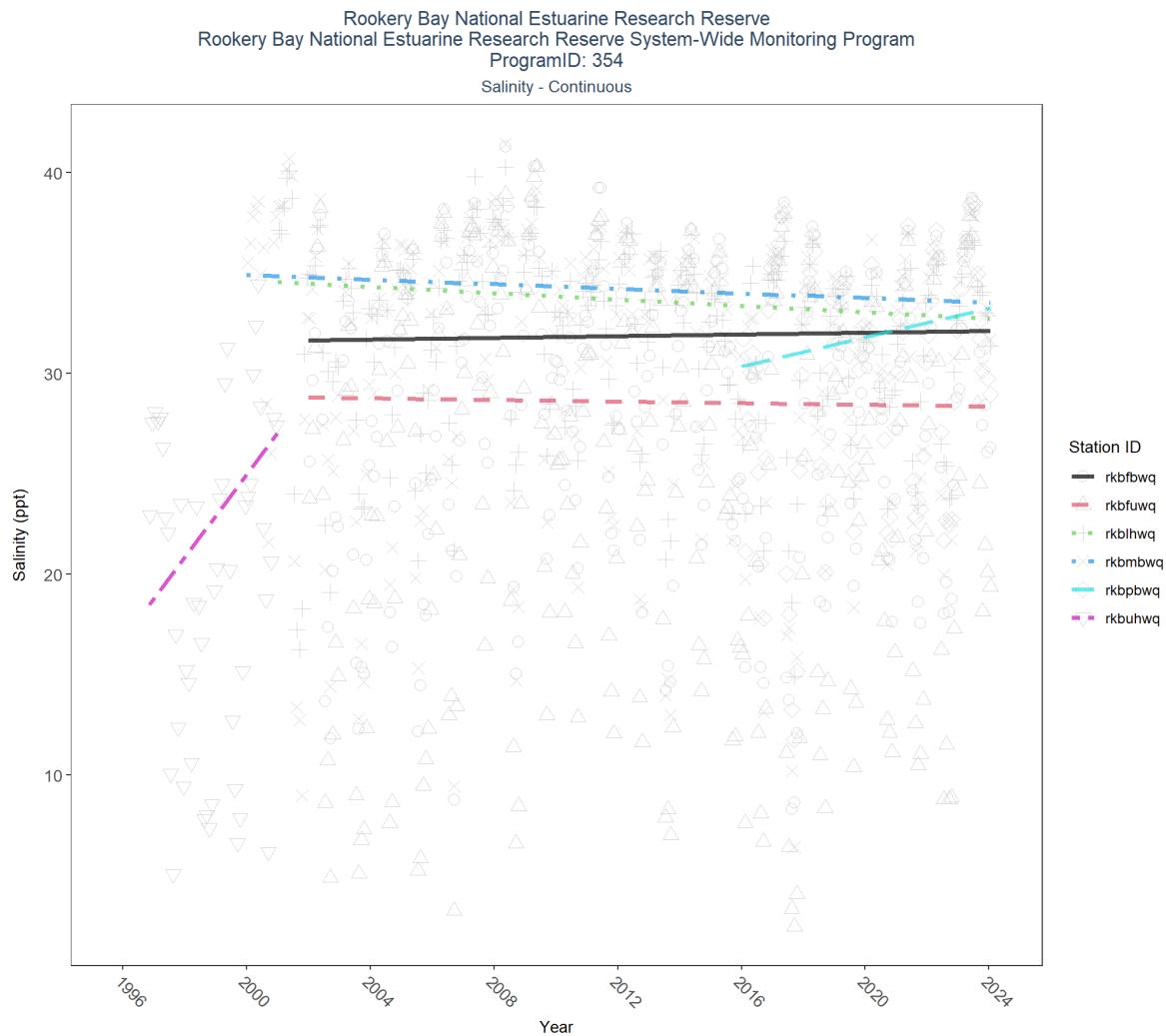


Table 5: Seasonal Kendall-Tau Results for All Stations - Salinity

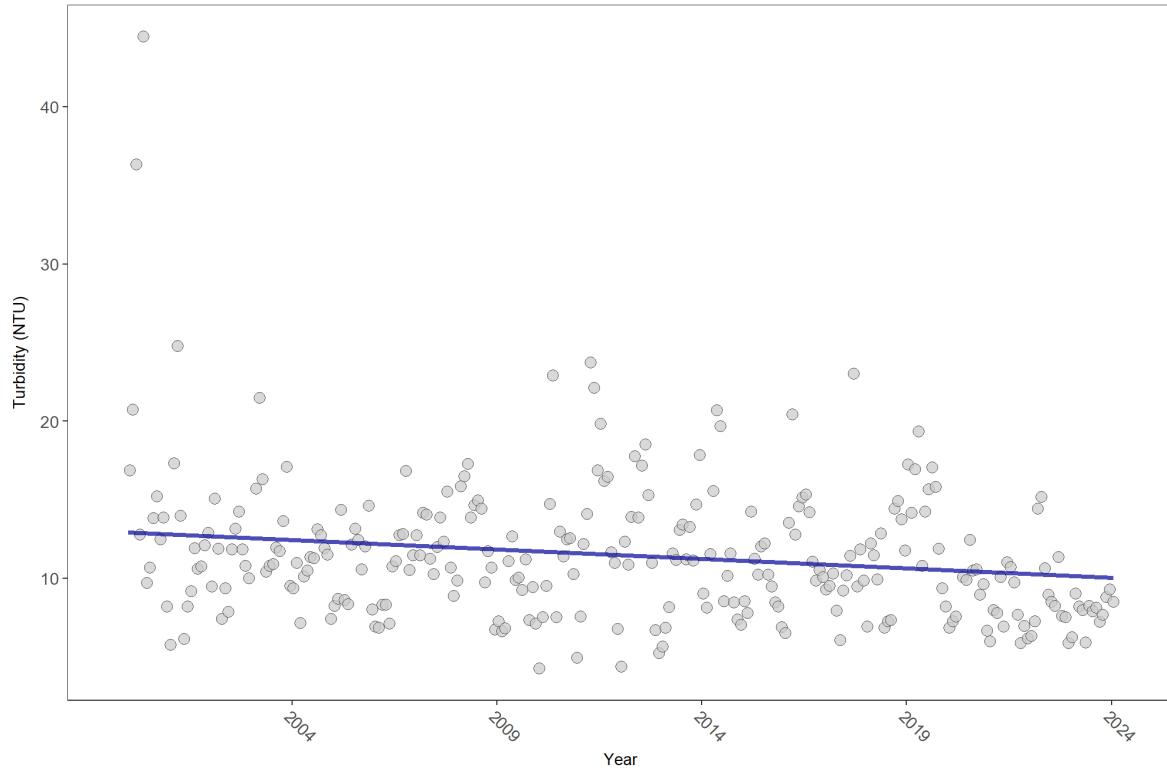
Station	N_Data	N_Years	Period of Record	Median	tau	SennIntercept	SennSlope	p
rkbpbwq	265563	9	2016 - 2024	30.5	0.15	30.35	0.36	0.0900
rkbfbwq	632702	23	2002 - 2024	29.9	0.02	31.64	0.02	0.6004
rkbmbwq	668919	25	2000 - 2024	33.4	-0.08	34.9	-0.06	0.0556

Station	N_Data	N_Years	Period of Record	Median	tau	SennIntercept	SennSlope	p
rkbhwq	636295	24	2001 - 2024	33.2	-0.12	34.55	-0.08	0.0047
rkbhwq	649121	23	2002 - 2024	26.3	-0.02	28.79	-0.02	0.7188
rkbhwq	68446	5	1996 - 2000	21.1	0.31	16.74	2.06	0.0358
rkbhwq	12256	2	1997 - 1998	34.5	-	-	-	-

Turbidity

rkbmbwq

Rookery Bay National Estuarine Research Reserve
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Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbmbwq
Turbidity



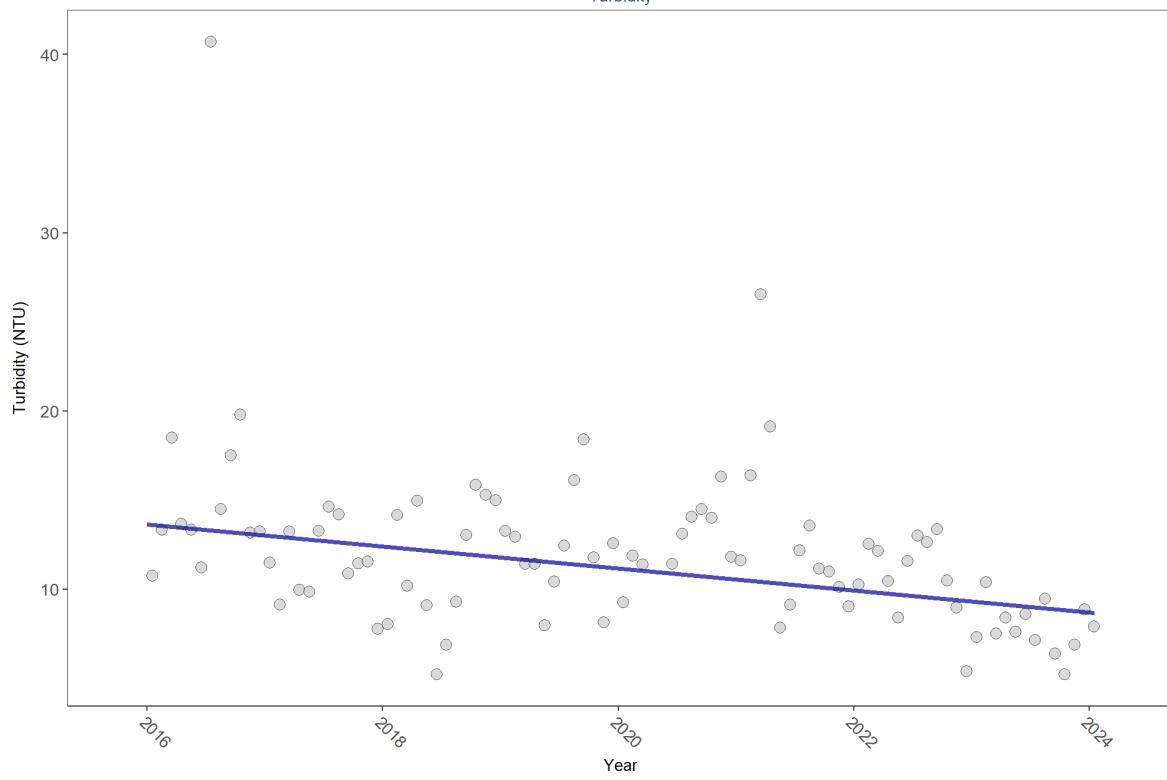
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	645856	25	10	TRUE	-0.1961	0.0000	-0.1199739	12.91775	10.9129	0.4506	-1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbpbwq

Rookery Bay National Estuarine Research Reserve
 354
 Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 rkbpbwq
 Turbidity



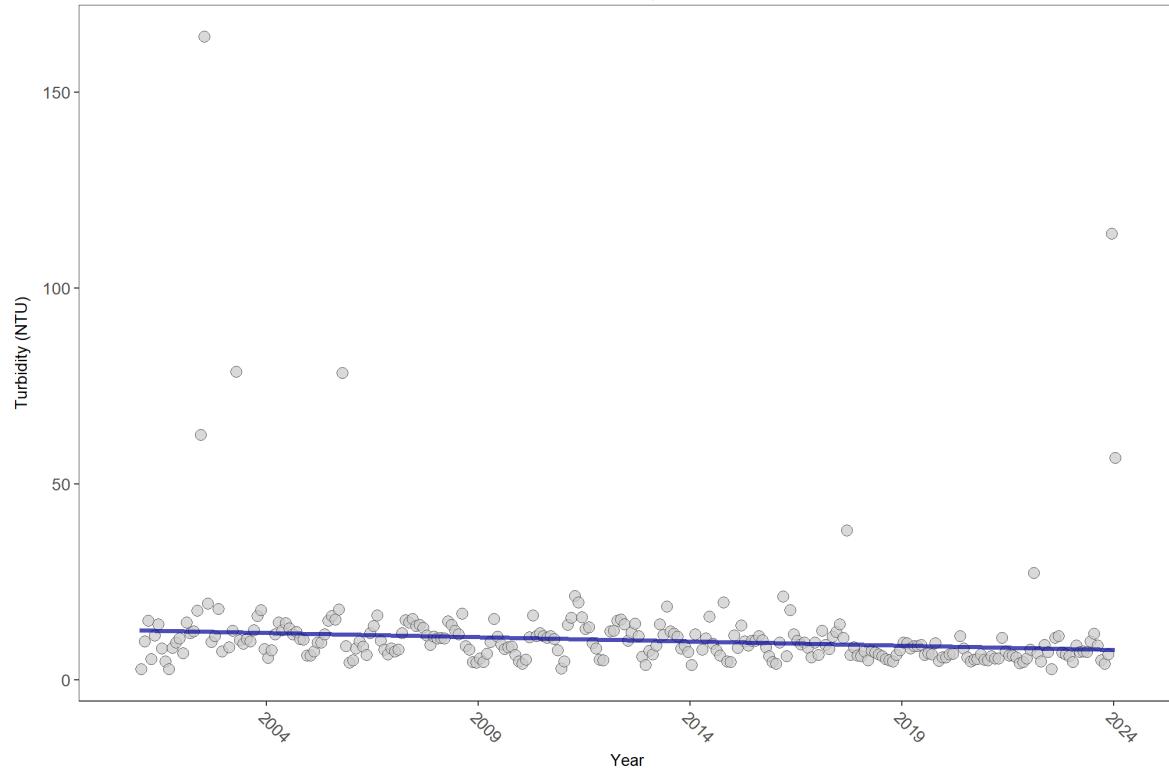
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	261955	9	10	TRUE	-0.3975	0.0000	-0.6183176	13.64361	5.1262	0.9249	-1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbhwq

Rookery Bay National Estuarine Research Reserve
354
Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbhwq
Turbidity



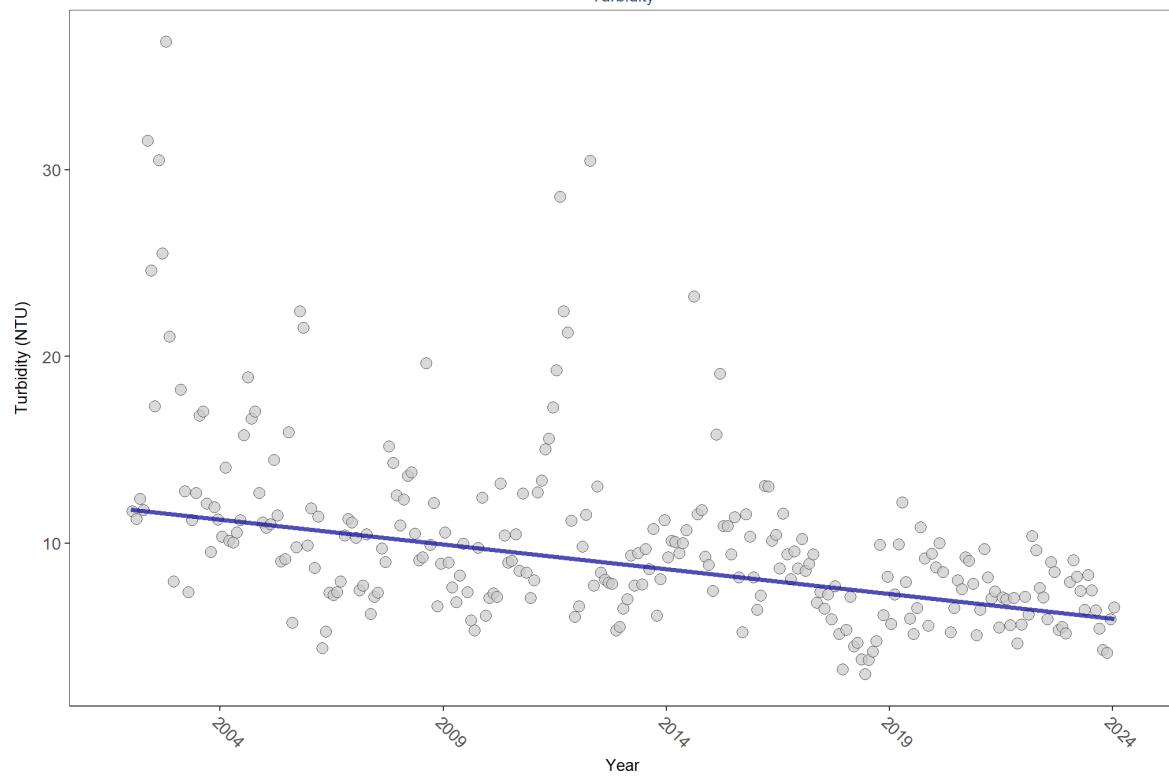
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	584581	24	8	TRUE	-0.2727	0.0000	-0.218188	12.58489	18.8811	0.0633	-1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbfbwq

Rookery Bay National Estuarine Research Reserve
354
Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbfbwq
Turbidity



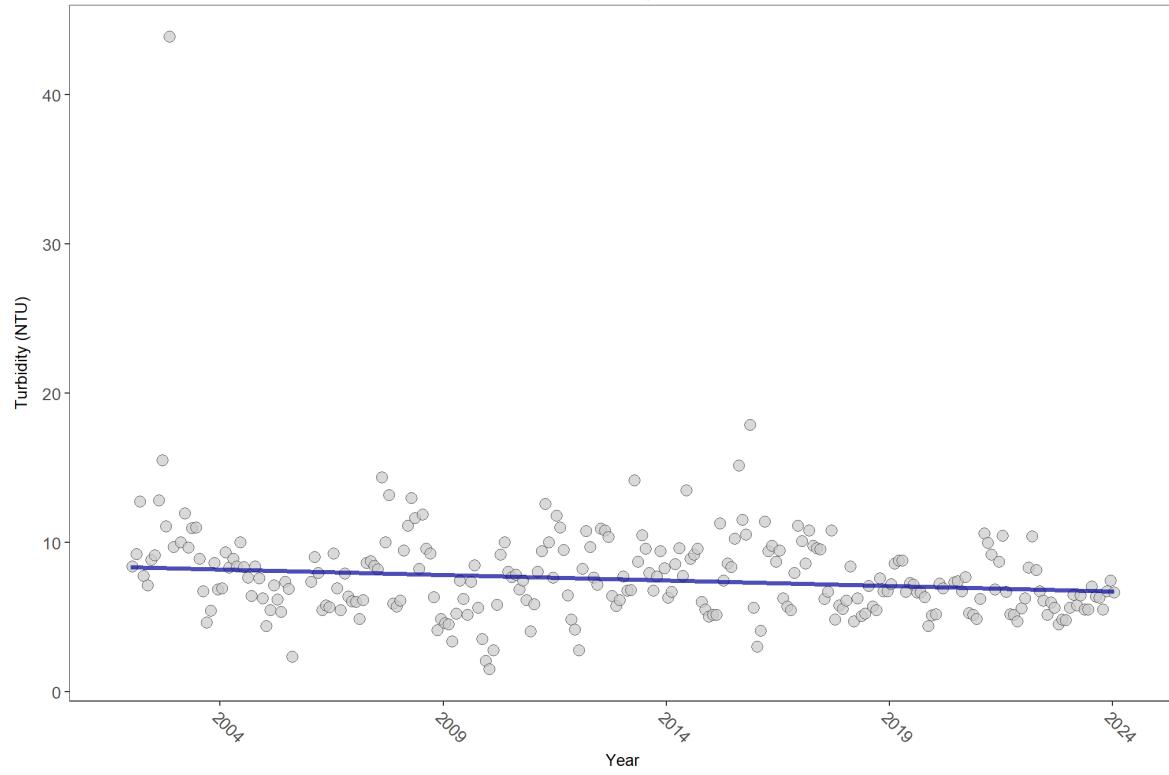
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	612433	23	7	TRUE	-0.4019	0.0000	-0.2658098	11.79978	10.1303	0.5187	-1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbftuwq

Rookery Bay National Estuarine Research Reserve
 354
 Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 rkbftuwq
 Turbidity



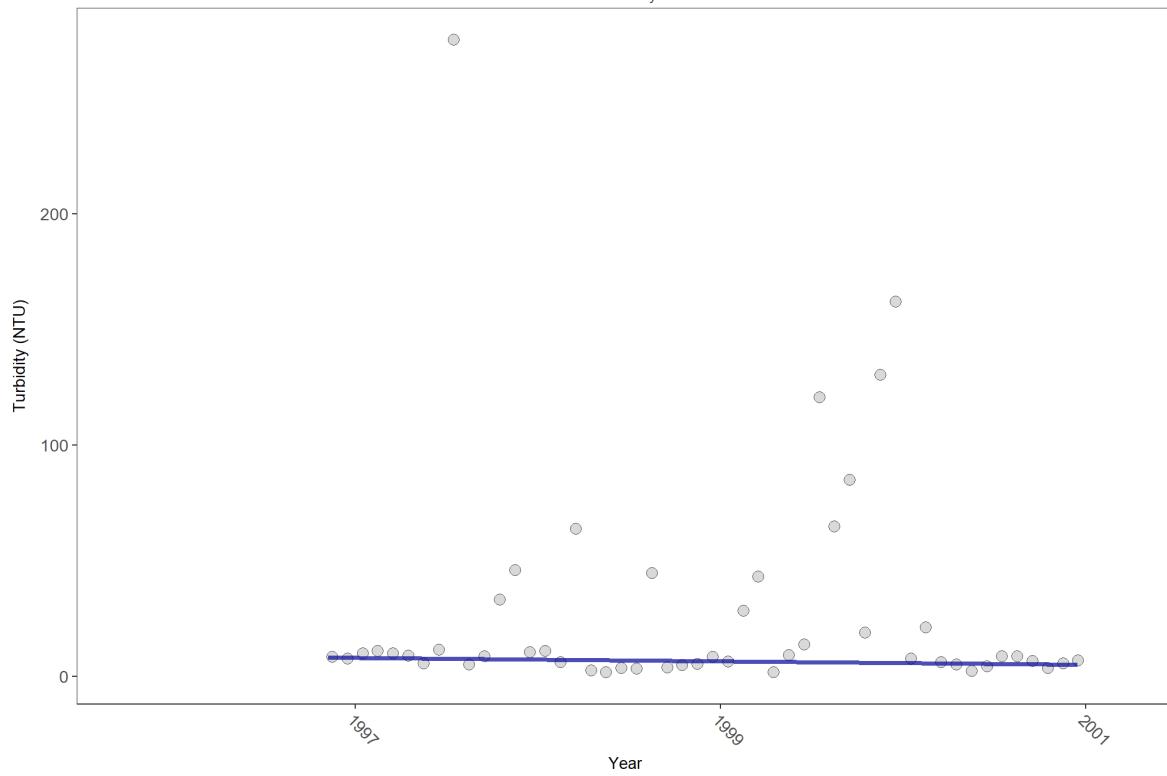
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	589837	23	6	TRUE	-0.1683	0.0002	-0.07335832	8.366577	6.7185	0.8214	-1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbuhwq

Rookery Bay National Estuarine Research Reserve
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Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbuhwq
Turbidity



RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	61608	5	5	TRUE	-0.1067	0.5228	-0.7031938	8.568963	4	0.9699	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

All Stations Combined

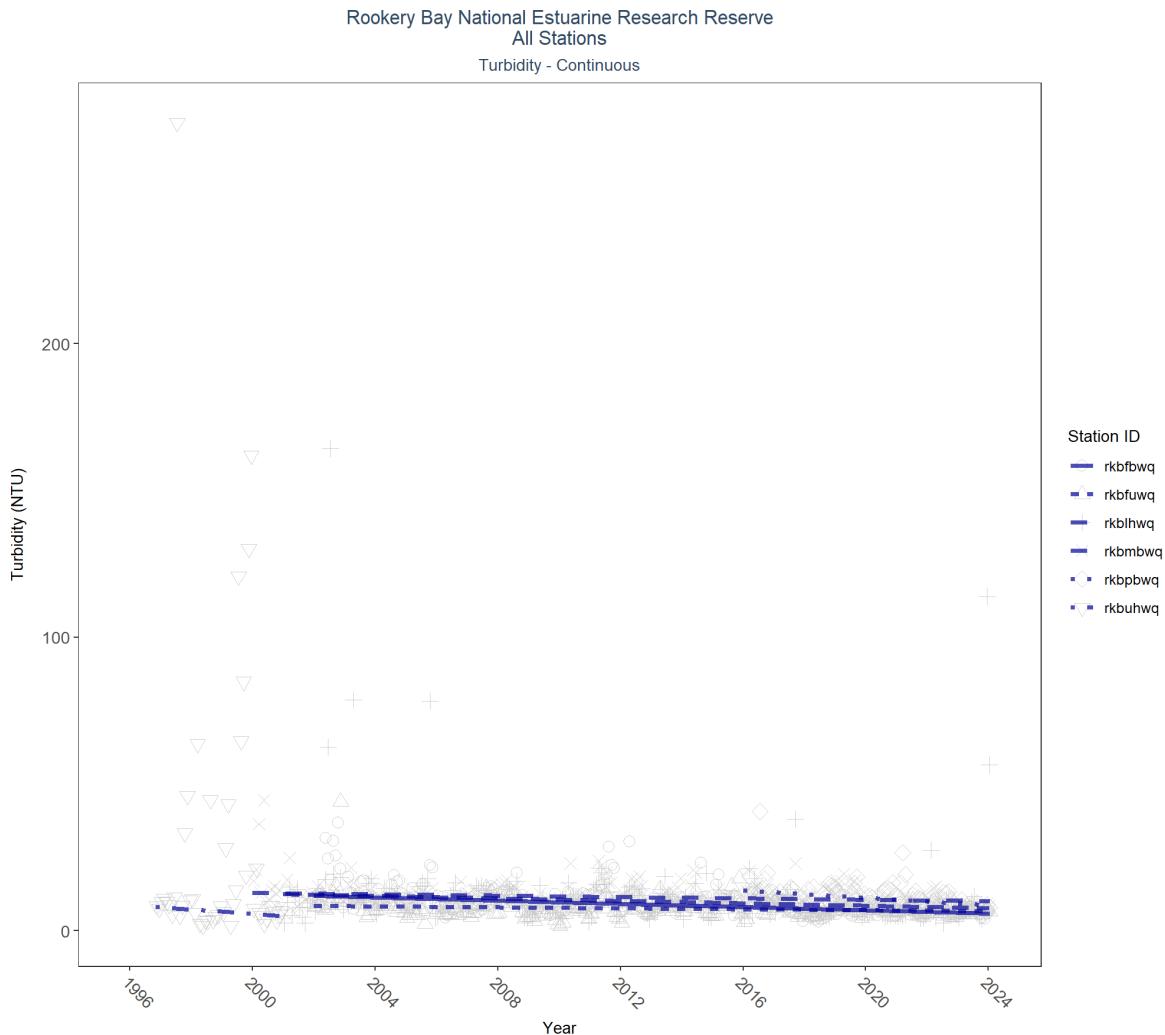


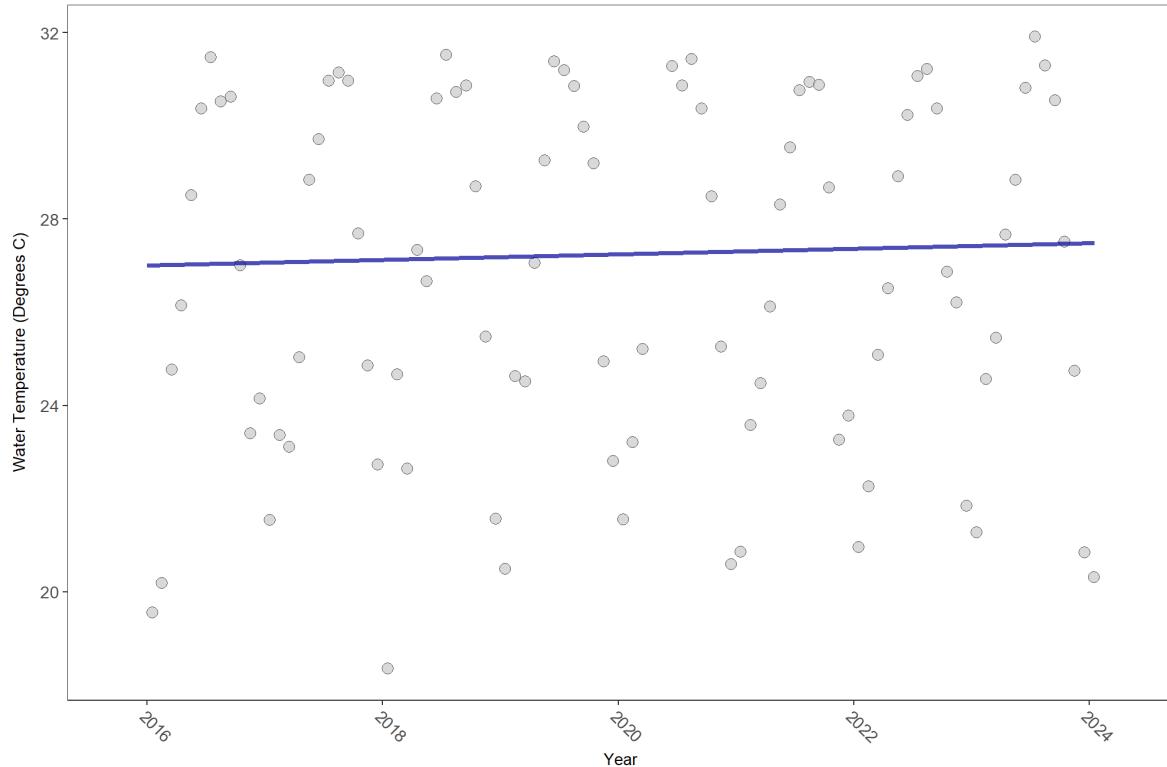
Table 6: Seasonal Kendall-Tau Results for All Stations - Turbidity

Station	N_Data	N_Years	Period of Record	Median	tau	SennIntercept	SennSlope	p
rkbmbwq	645856	25	2000 - 2024	10	-0.2	12.92	-0.12	0.0000
rkbpbwq	261955	9	2016 - 2024	10	-0.4	13.64	-0.62	0.0000
rkbhwq	584581	24	2001 - 2024	8	-0.27	12.58	-0.22	0.0000
rkbfbwq	612433	23	2002 - 2024	7	-0.4	11.8	-0.27	0.0000
rkbfuwq	589837	23	2002 - 2024	6	-0.17	8.37	-0.07	0.0002
rkbuhwq	61608	5	1996 - 2000	5	-0.11	8.57	-0.7	0.5228
rkbmbwq	10654	2	1997 - 1998	11	-	-	-	-

Water Temperature

rkbpbwq

Rookery Bay National Estuarine Research Reserve
354
Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbpbwq
Water Temperature



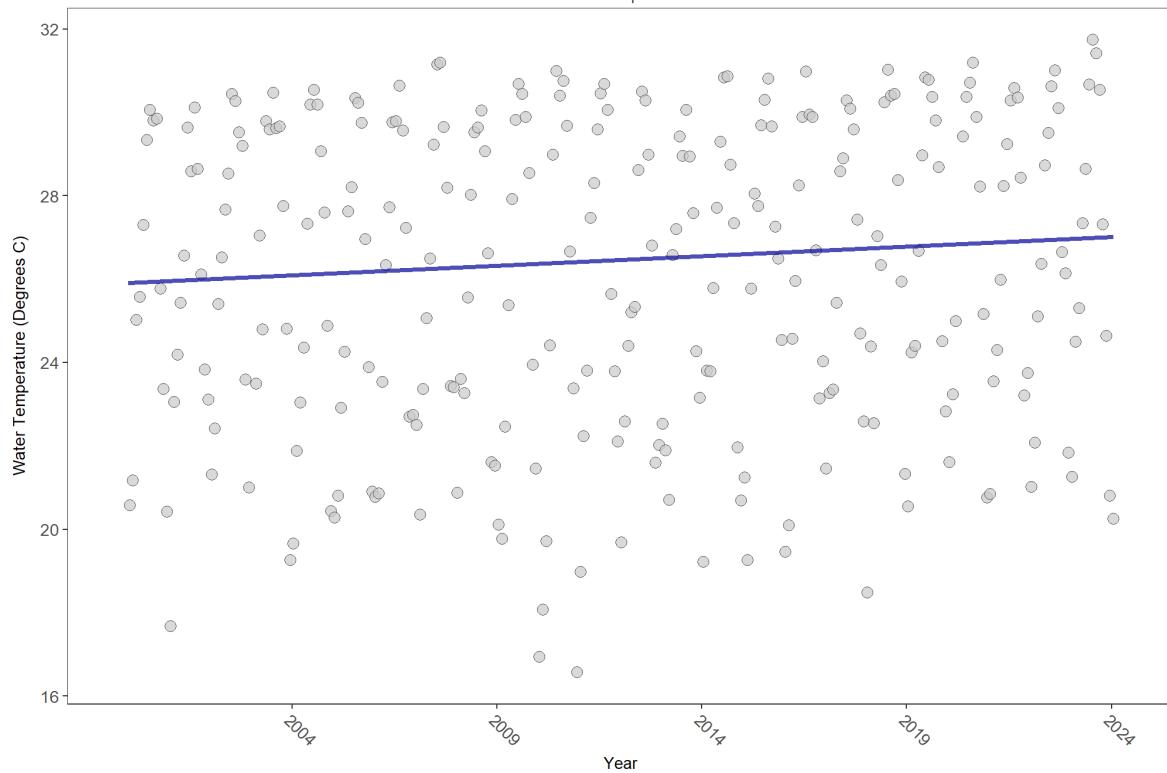
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	268436	9	27.4	TRUE	0.112	0.2068	0.06074618	27.00063	8.6427	0.6548	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbmbwq

Rookery Bay National Estuarine Research Reserve
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 Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 rkbmbwq
 Water Temperature



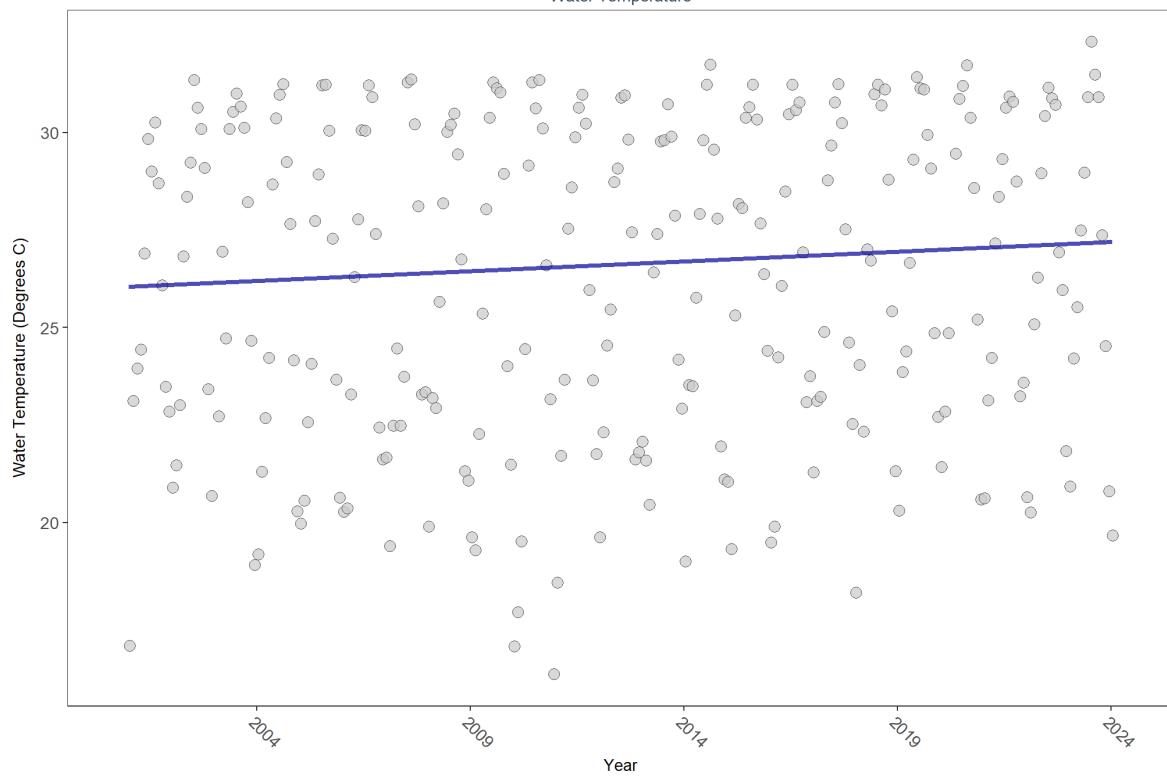
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	692233	25	26.8	TRUE	0.2506	0.0000	0.04640183	25.90599	5.3061	0.9154	1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbhwq

Rookery Bay National Estuarine Research Reserve
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 Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 rkbhwq
 Water Temperature



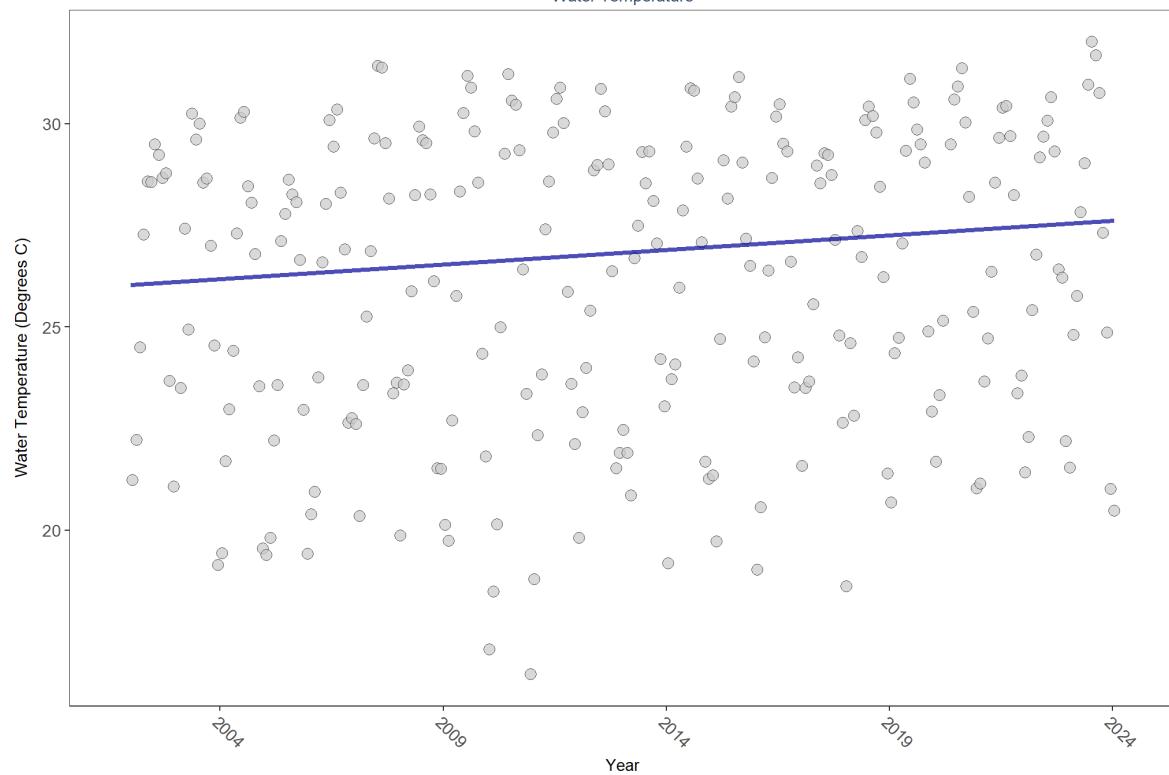
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	667447	24	26.9	TRUE	0.2336	0.0000	0.04982675	26.05359	4.8776	0.9369	1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbftuwq

Rookery Bay National Estuarine Research Reserve
354
Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbftuwq
Water Temperature



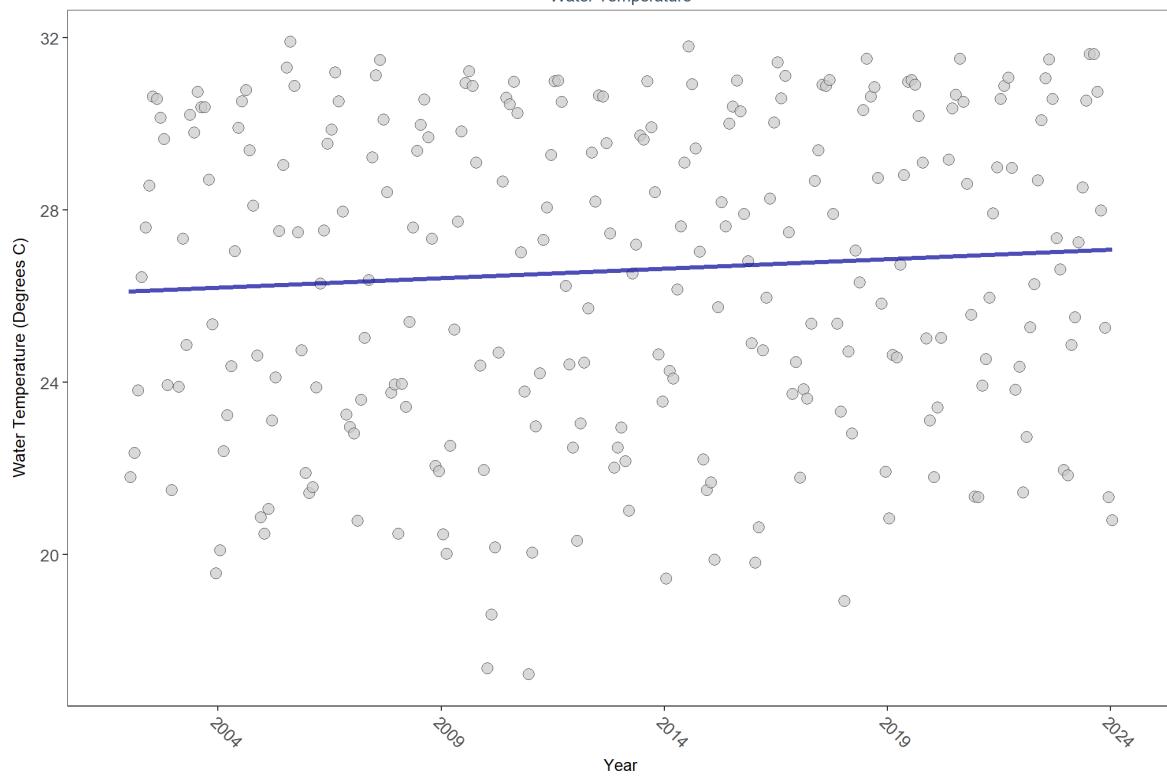
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	659552	23	26.9	TRUE	0.2756	0.0000	0.0722692	26.02745	3.5684	0.9809	1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbfbwq

Rookery Bay National Estuarine Research Reserve
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Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
rkbfbwq
Water Temperature



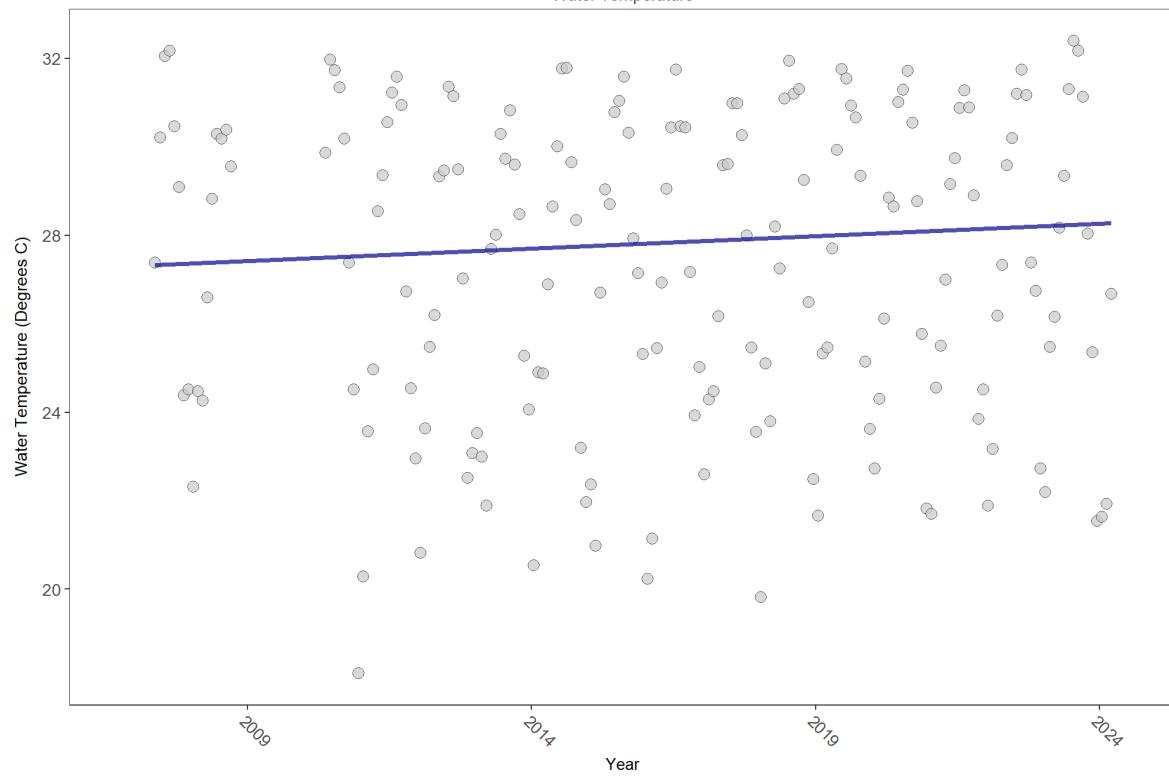
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	648515	23	27	TRUE	0.2278	0.0000	0.04416166	26.10841	5.379	0.9114	1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

255654081350200

Rookery Bay National Estuarine Research Reserve
7
National Water Information System
255654081350200
Water Temperature



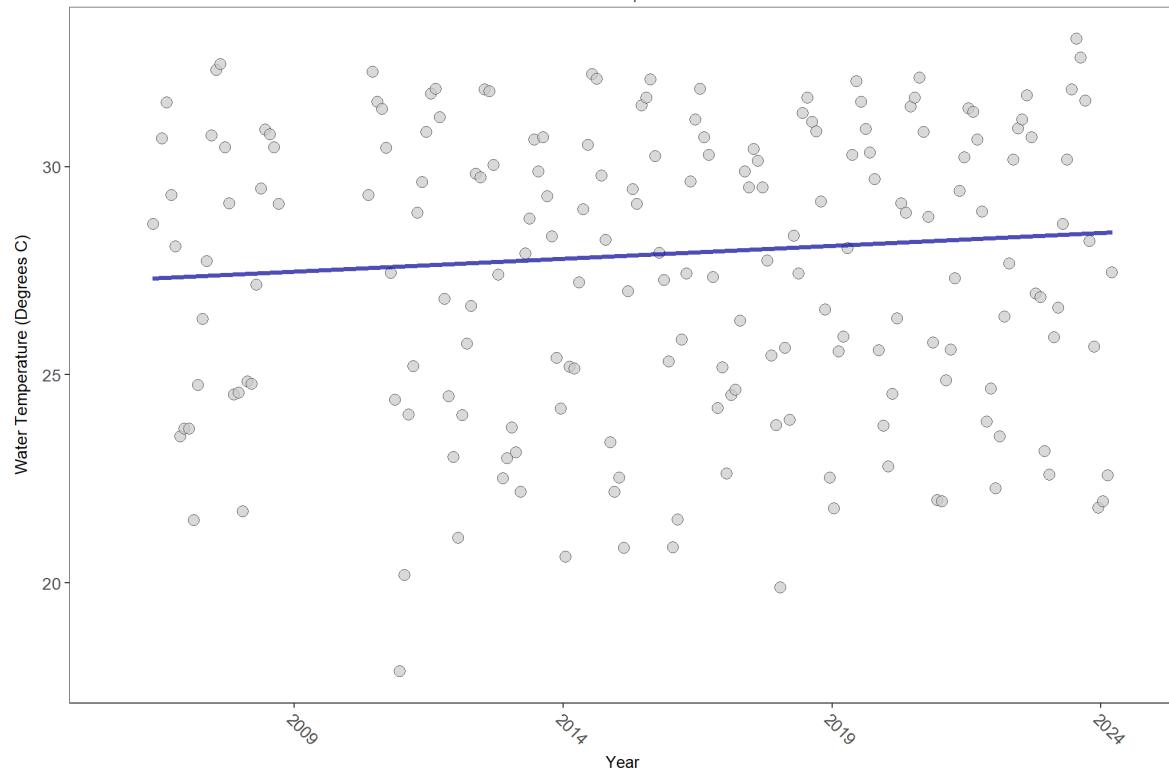
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
surface	6204	17	28	TRUE	0.1867	0.0007	0.05685484	27.30107	9.2882	0.5953	1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

255432081303900

Rookery Bay National Estuarine Research Reserve
7
National Water Information System
255432081303900
Water Temperature



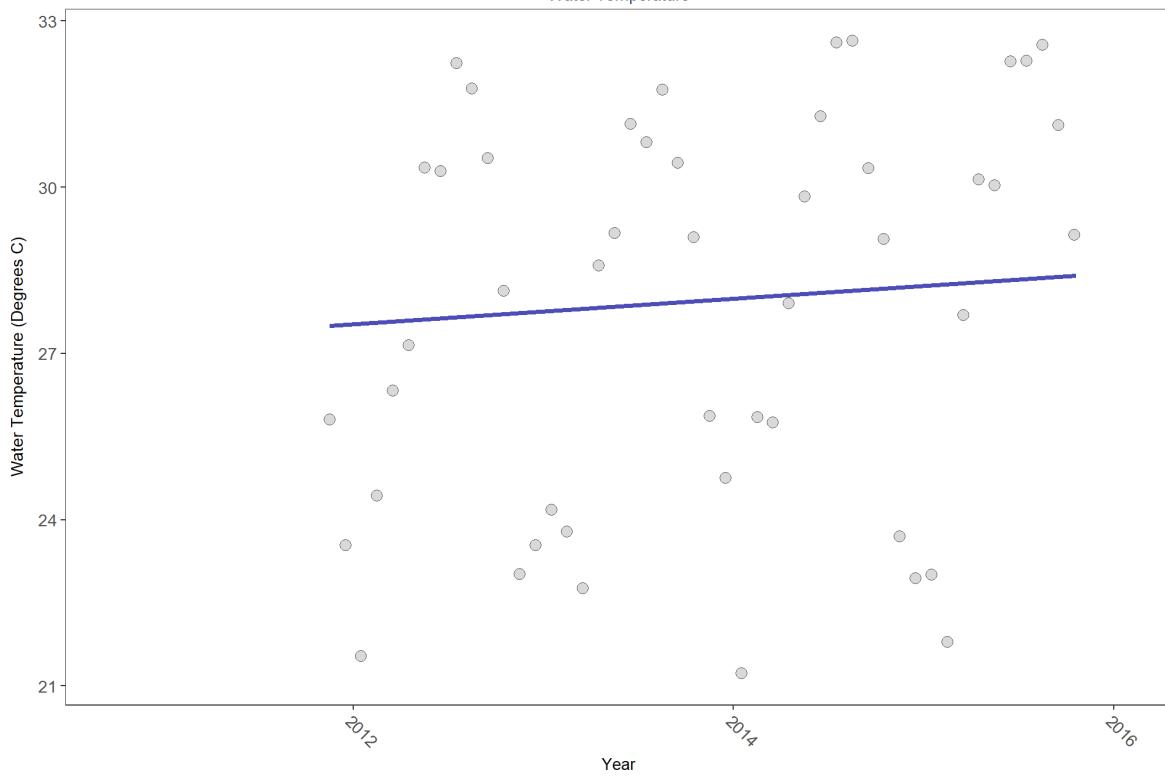
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
surface	6586	18	28.3	TRUE	0.2042	0.0001	0.06217804	27.2923	10.291	0.5044	1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

255732081363700

Rookery Bay National Estuarine Research Reserve
7
National Water Information System
255732081363700
Water Temperature



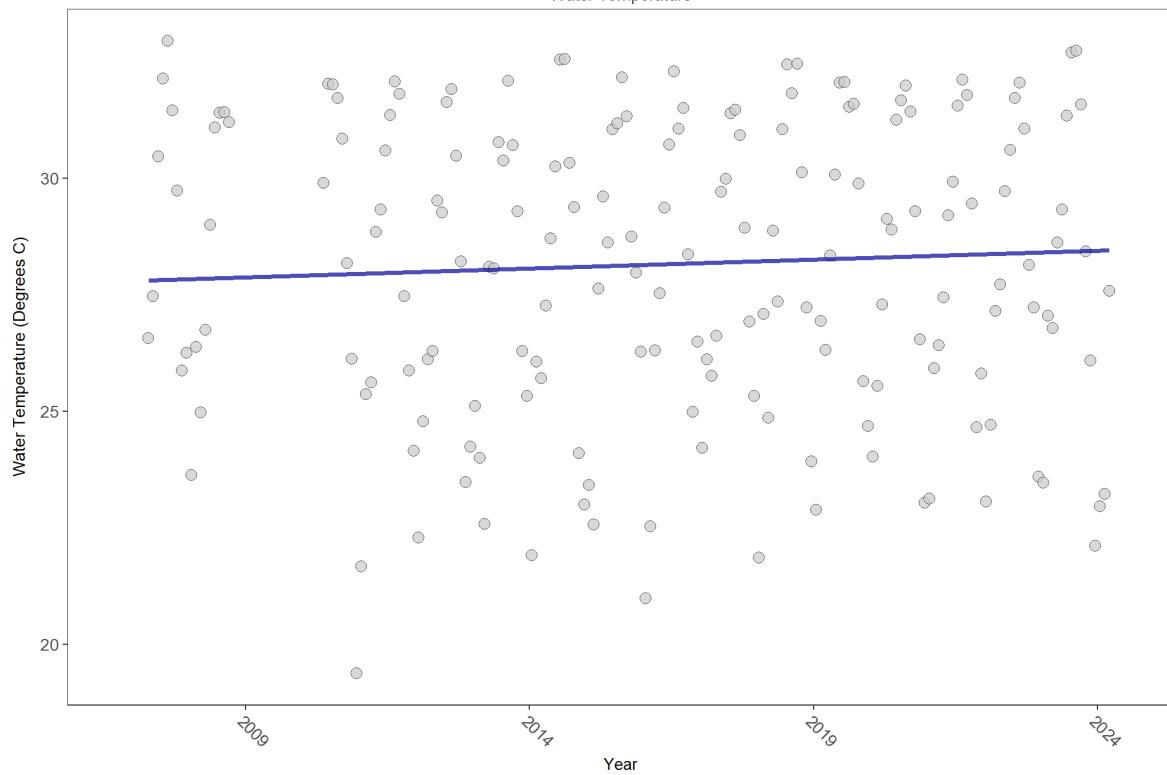
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
surface	1435	5	28.4	TRUE	0.2361	0.1149	0.2306452	27.2975	7.0645	0.7938	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

255534081324000

Rookery Bay National Estuarine Research Reserve
7
National Water Information System
255534081324000
Water Temperature



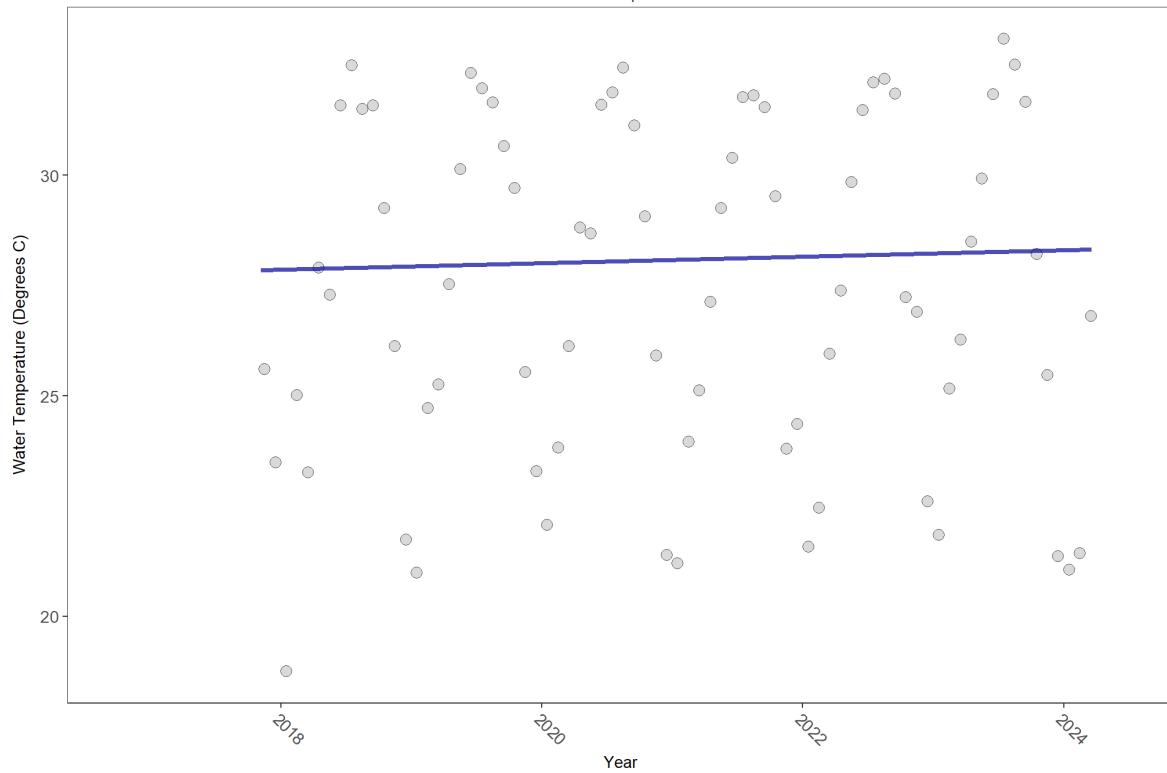
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
surface	6351	17	28.7	TRUE	0.1566	0.0044	0.03768678	27.80044	7.124	0.789	1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

255138081321701

Rookery Bay National Estuarine Research Reserve
7
National Water Information System
255138081321701
Water Temperature



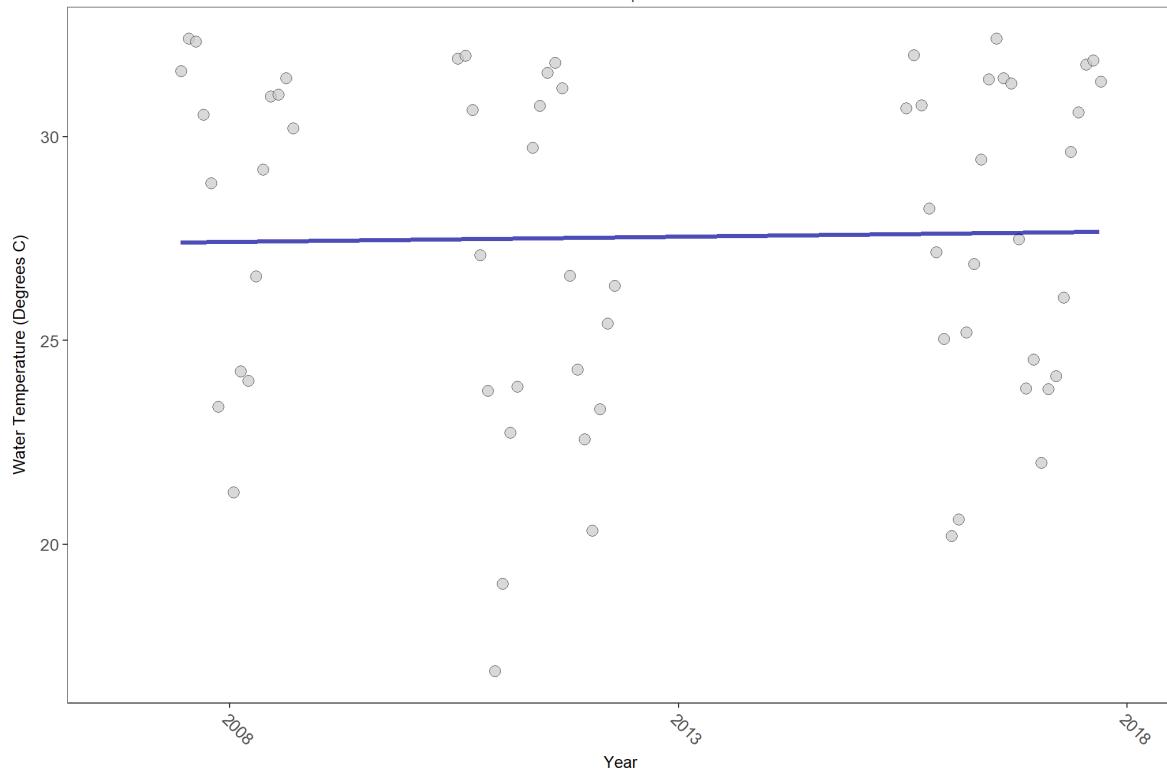
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
surface	2303	8	27.9	TRUE	0.1013	0.3539	0.07347073	27.79418	17.7737	0.087	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

255123081321300

Rookery Bay National Estuarine Research Reserve
7
National Water Information System
255123081321300
Water Temperature



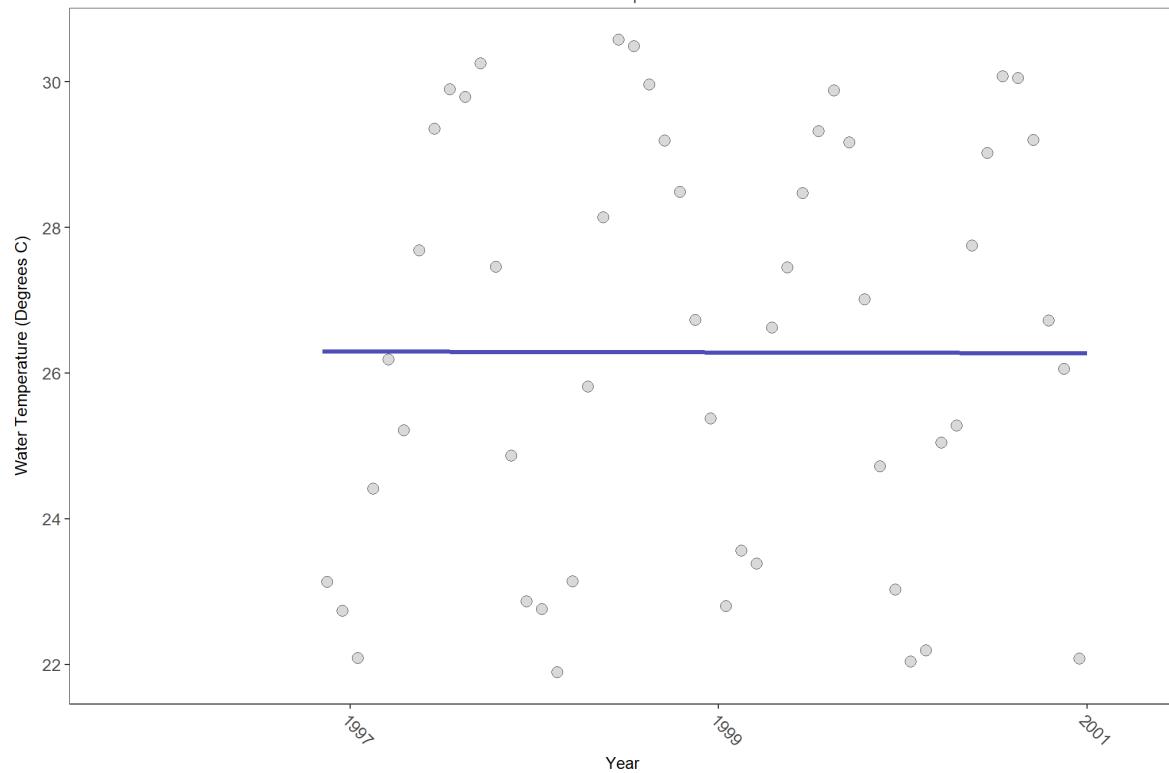
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
surface	1818	8	28.2	TRUE	0.0952	0.4183	0.0262963	27.38935	14.4616	0.2085	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

rkbuhwq

Rookery Bay National Estuarine Research Reserve
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 Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 rkbuhwq
 Water Temperature



RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
bottom	68971	5	26.8	TRUE	-0.0133	1.0000	-0.005214494	26.3001	6.4865	0.839	0

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

All Stations Combined by Program

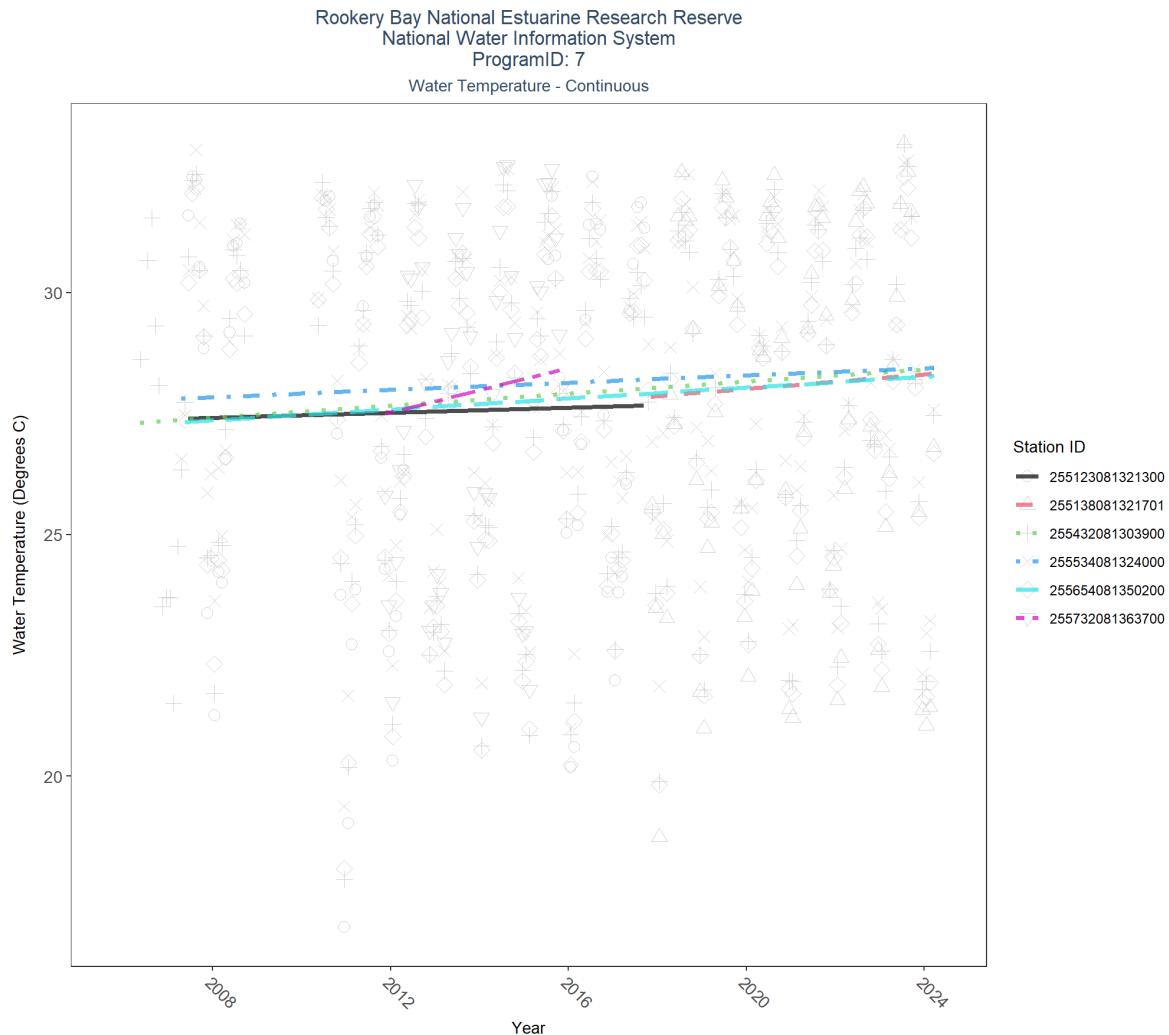


Table 7: Seasonal Kendall-Tau Results for All Stations - Water Temperature

Station	N_Data	N_Years	Period of Record	Median	tau	SennIntercept	SennSlope	p
255654081350200	6204	17	2007 - 2024	28.0	0.19	27.3	0.06	0.0007
255432081303900	6586	18	2006 - 2024	28.3	0.2	27.29	0.06	0.0001
255732081363700	1435	5	2011 - 2015	28.4	0.24	27.3	0.23	0.1149
255443081314700	2011	4	2007 - 2011	29.3	-	-	-	-
02291330	1901	4	2011 - 2014	28.3	-	-	-	-
255534081324000	6351	17	2007 - 2024	28.7	0.16	27.8	0.04	0.0044

Station	N_Data	N_Years	Period of Record	Median	tau	SennIntercept	SennSlope	p
255532081314300	906	3	2009 - 2011	29.3	-	-	-	-
255138081321701	2303	8	2017 - 2024	27.9	0.1	27.79	0.07	0.3539
255123081321300	1818	8	2007 - 2017	28.2	0.1	27.39	0.03	0.4183

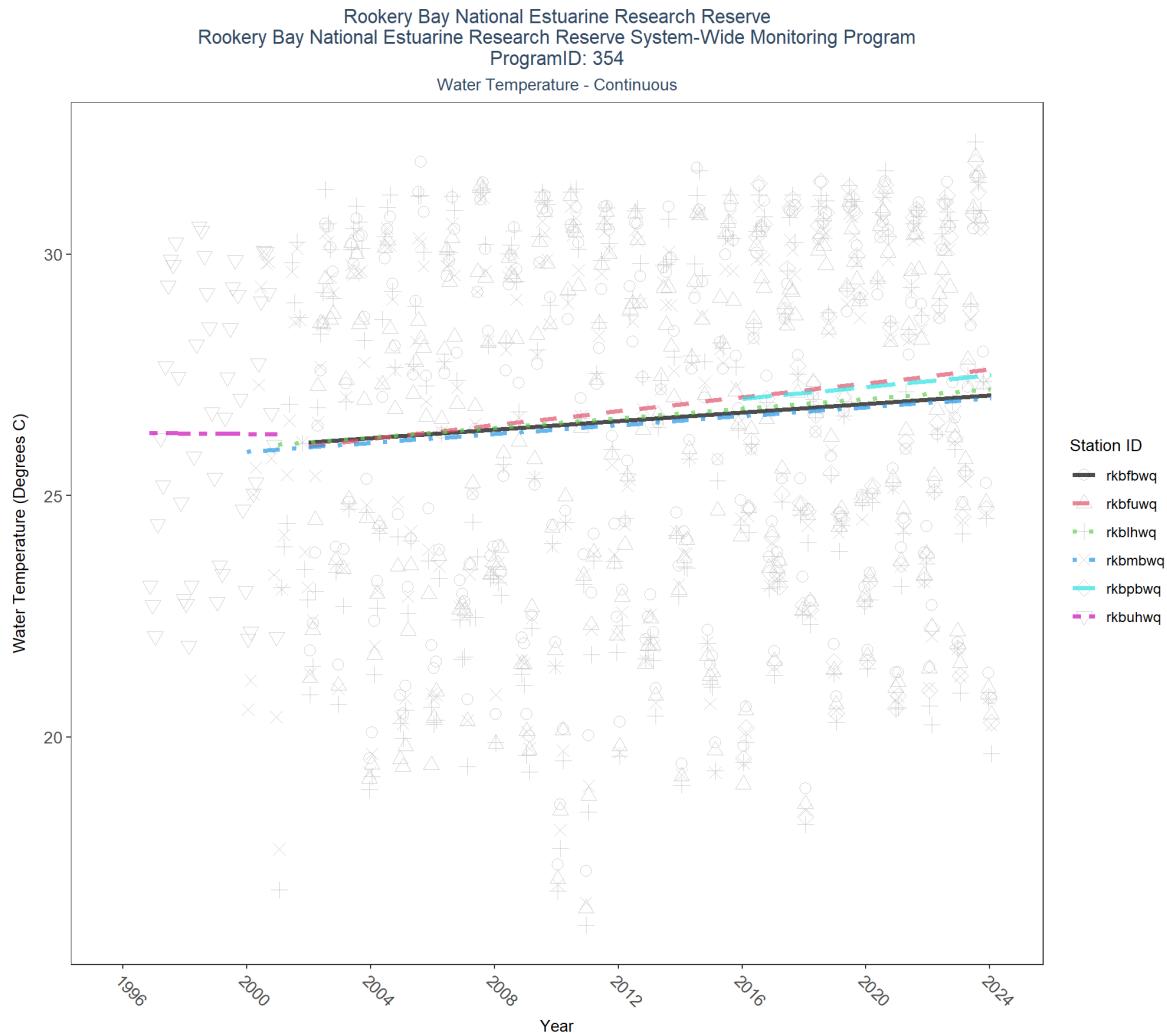


Table 8: Seasonal Kendall-Tau Results for All Stations - Water Temperature

Station	N_Data	N_Years	Period of Record	Median	tau	SennIntercept	SennSlope	p
rkpbpbwq	268436	9	2016 - 2024	27.4	0.11	27	0.06	0.2068

Station	N_Data	N_Years	Period of Record	Median	tau	SennIntercept	SennSlope	p
rkbmbwq	692233	25	2000 - 2024	26.8	0.25	25.91	0.05	0.0000
rkbhwq	667447	24	2001 - 2024	26.9	0.23	26.05	0.05	0.0000
rkbfuwq	659552	23	2002 - 2024	26.9	0.28	26.03	0.07	0.0000
rkbfbwq	648515	23	2002 - 2024	27.0	0.23	26.11	0.04	0.0000
rkbuhwq	68971	5	1996 - 2000	26.8	-0.01	26.3	-0.01	1.0000
rkbbmwq	12610	2	1997 - 1998	23.8	-	-	-	-