

Pine Island Sound Aquatic Preserve

SEACAR Discrete Water Quality Analysis

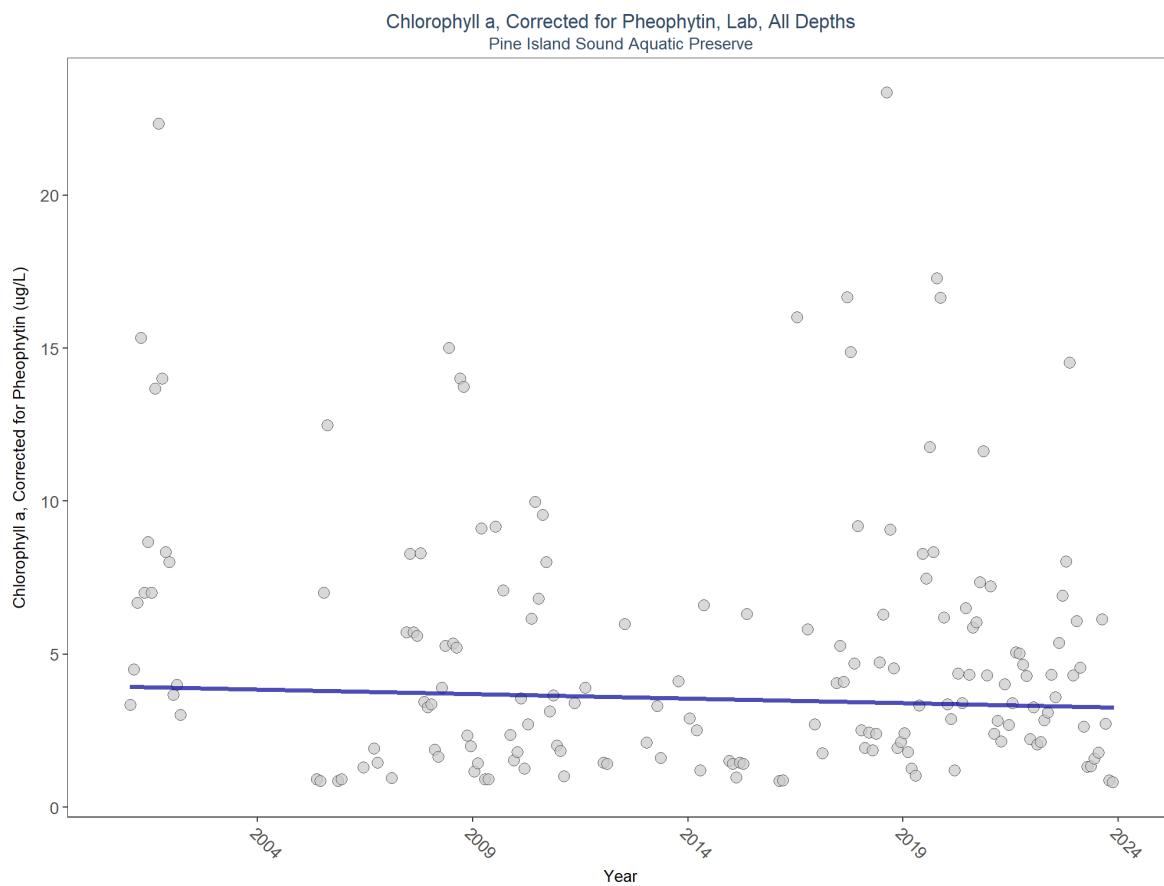
Last compiled on 26 June, 2024

Contents

Parameters	2
Chlorophyll a, Corrected for Pheophytin	2
Chlorophyll a, Uncorrected for Pheophytin	3
Colored Dissolved Organic Matter	4
Dissolved Oxygen	5
Dissolved Oxygen Saturation	6
pH	7
Salinity	8
Secchi Depth	9
Total Nitrogen	10
Total Phosphorus	11
Total Suspended Solids	12
Turbidity	13
Water Temperature	14

Parameters

Chlorophyll a, Corrected for Pheophytin

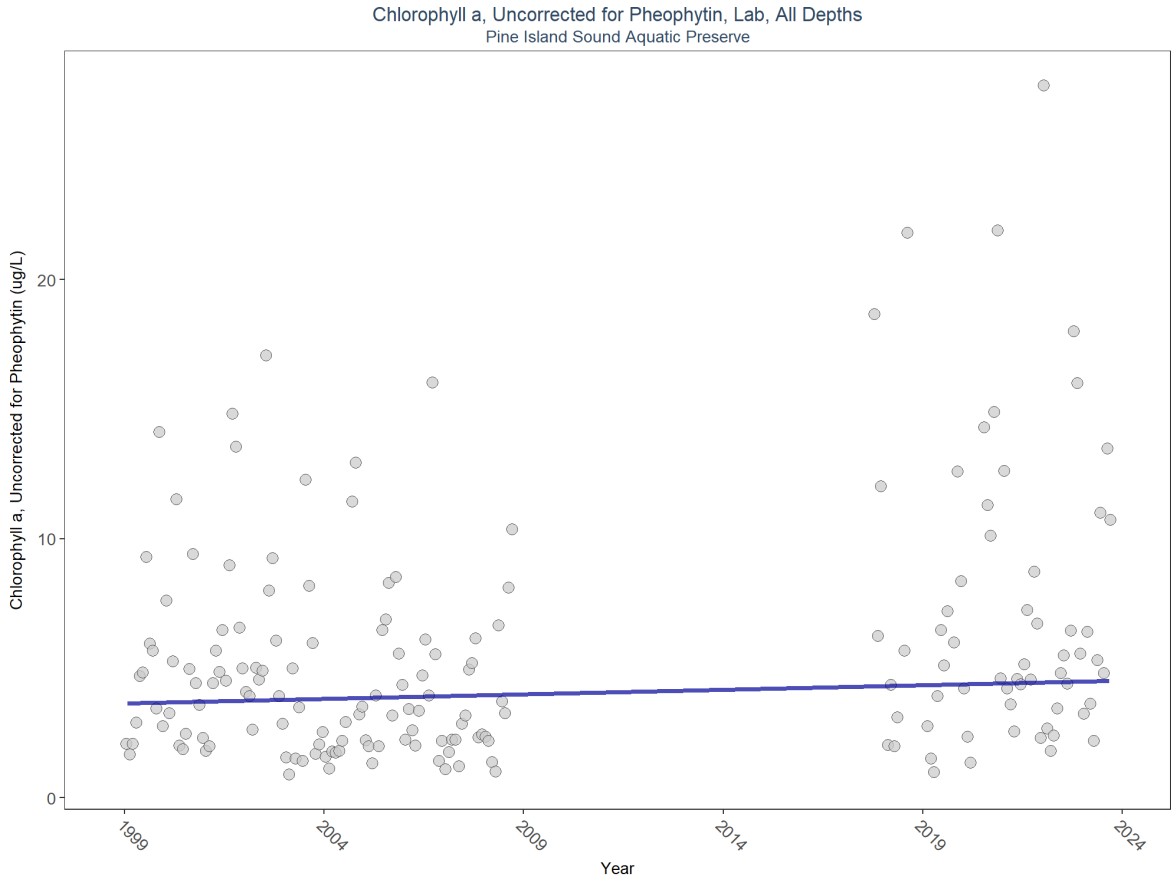


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	2027	21	3.15	TRUE	-0.0649	0.3183	-0.03	3.940469	14.6172	0.2007	0

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

SennIntercept is intercept value at beginning of record for monitoring location

Chlorophyll a, Uncorrected for Pheophytin

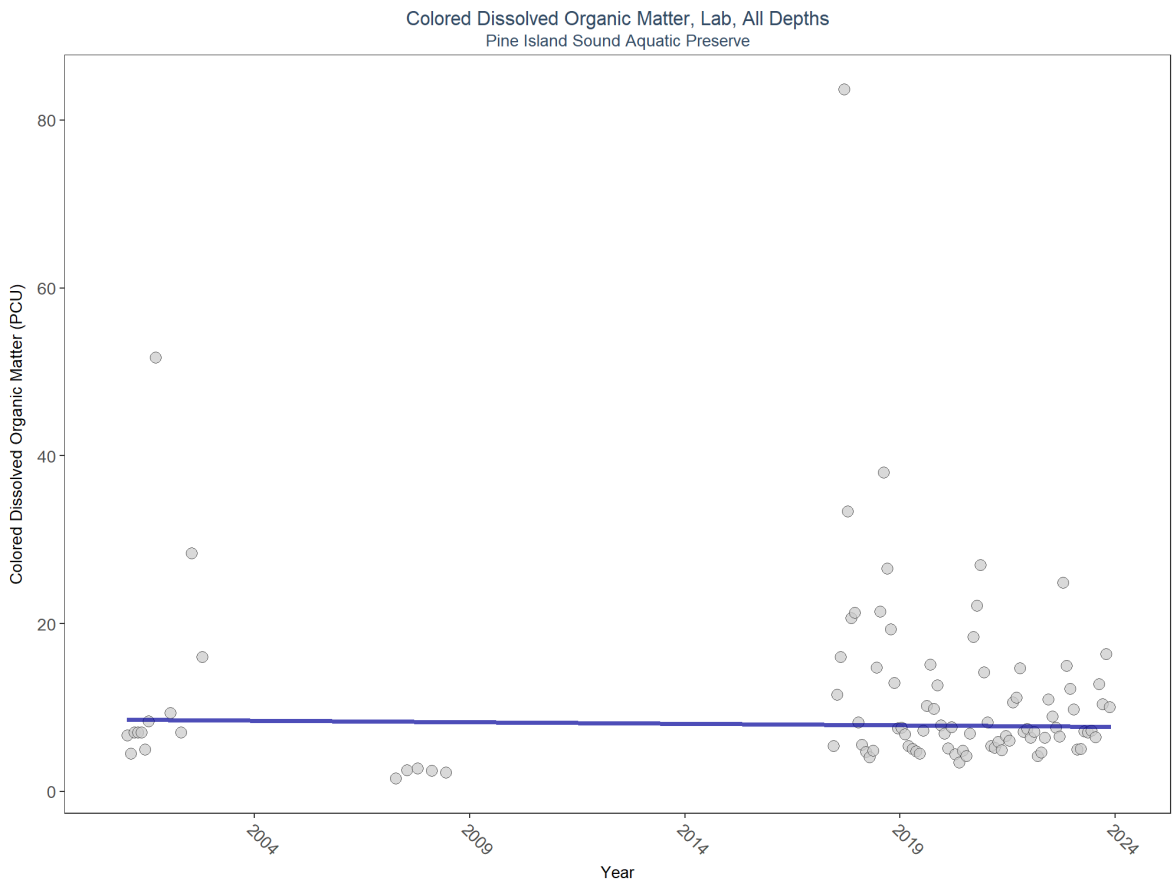


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	959	17	3.6304	TRUE	0.1107	0.0621	0.03517333	3.643443	15.5428	0.159	0

p < 0.00005 appear as 0 due to rounding.

*SennIntercept is intercept value at beginning of
record for monitoring location*

Colored Dissolved Organic Matter

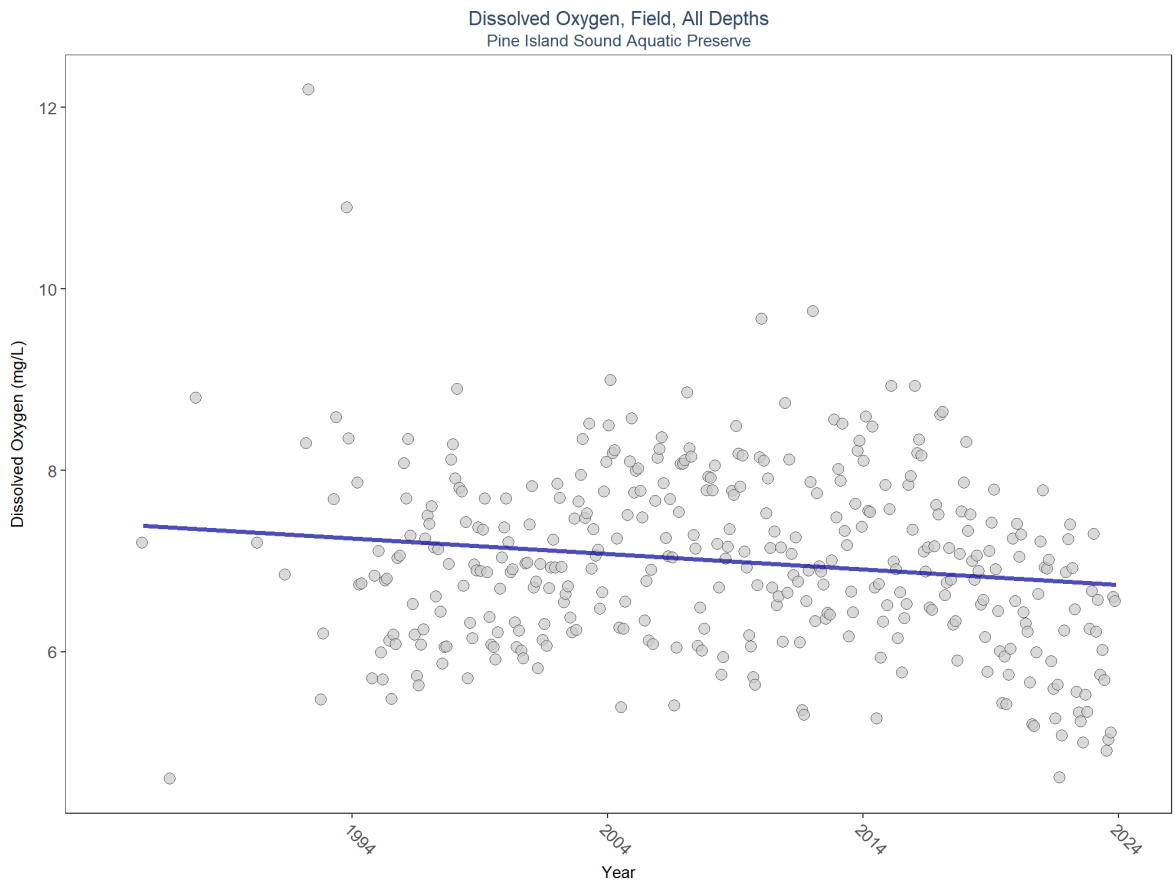


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	1179	11	7.23	TRUE	-0.0591	0.6210	-0.03672222	8.582313	14.9275	0.1858	0

p < 0.00005 appear as 0 due to rounding.

*SennIntercept is intercept value at beginning of
record for monitoring location*

Dissolved Oxygen

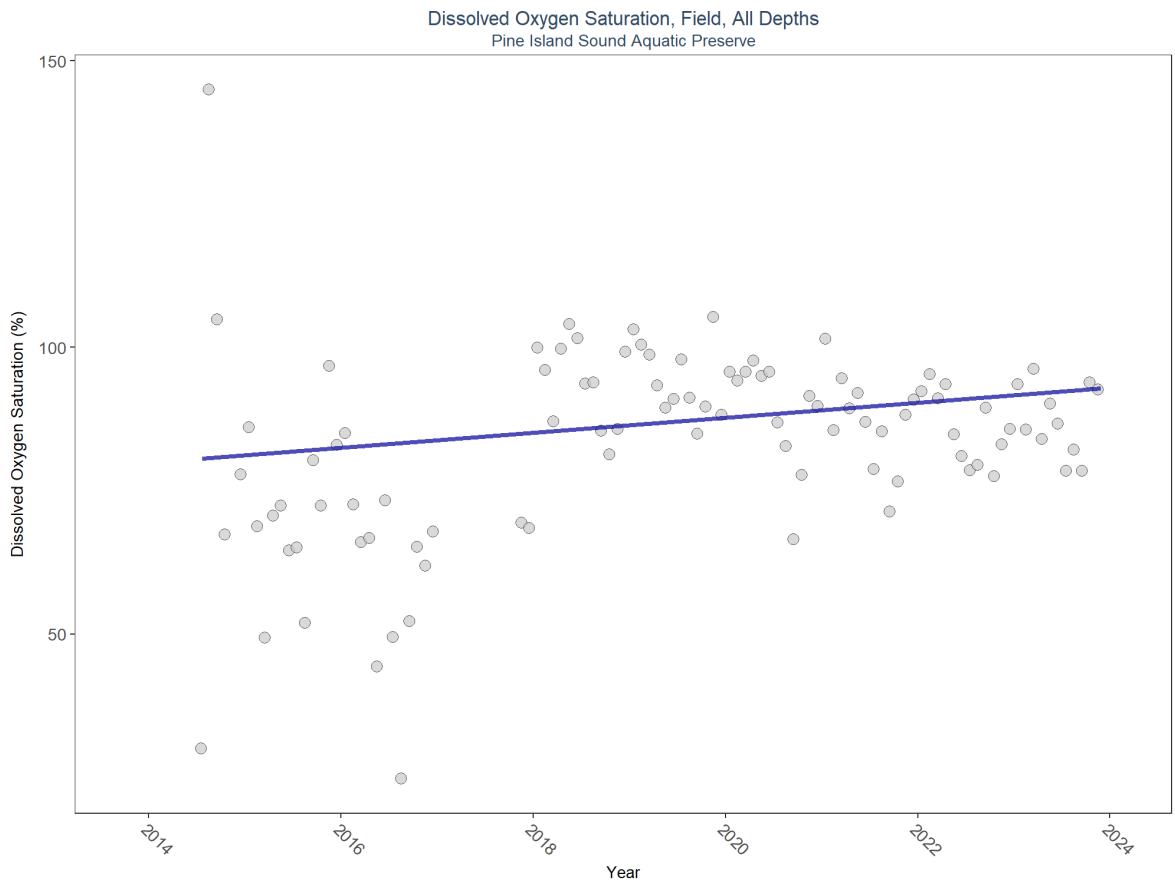


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	27988	37	7	TRUE	-0.1329	0.0003	-0.01695313	7.401489	7.6138	0.7474	-1

p < 0.00005 appear as 0 due to rounding.

*SennIntercept is intercept value at beginning of
record for monitoring location*

Dissolved Oxygen Saturation

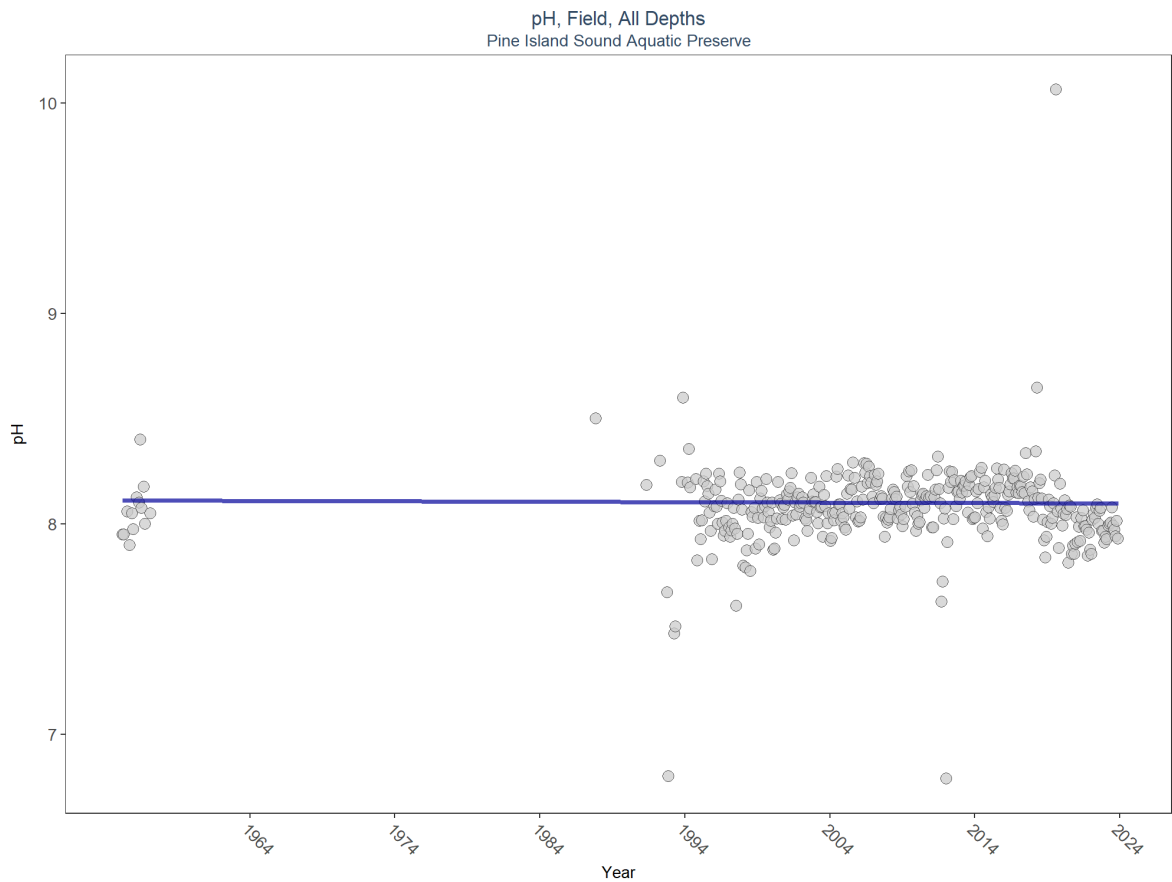


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	1780	10	91.86373	TRUE	0.1632	0.0471	1.315672	79.84351	6.5434	0.8348	1

p < 0.00005 appear as 0 due to rounding.

*SennIntercept is intercept value at beginning of
record for monitoring location*

pH

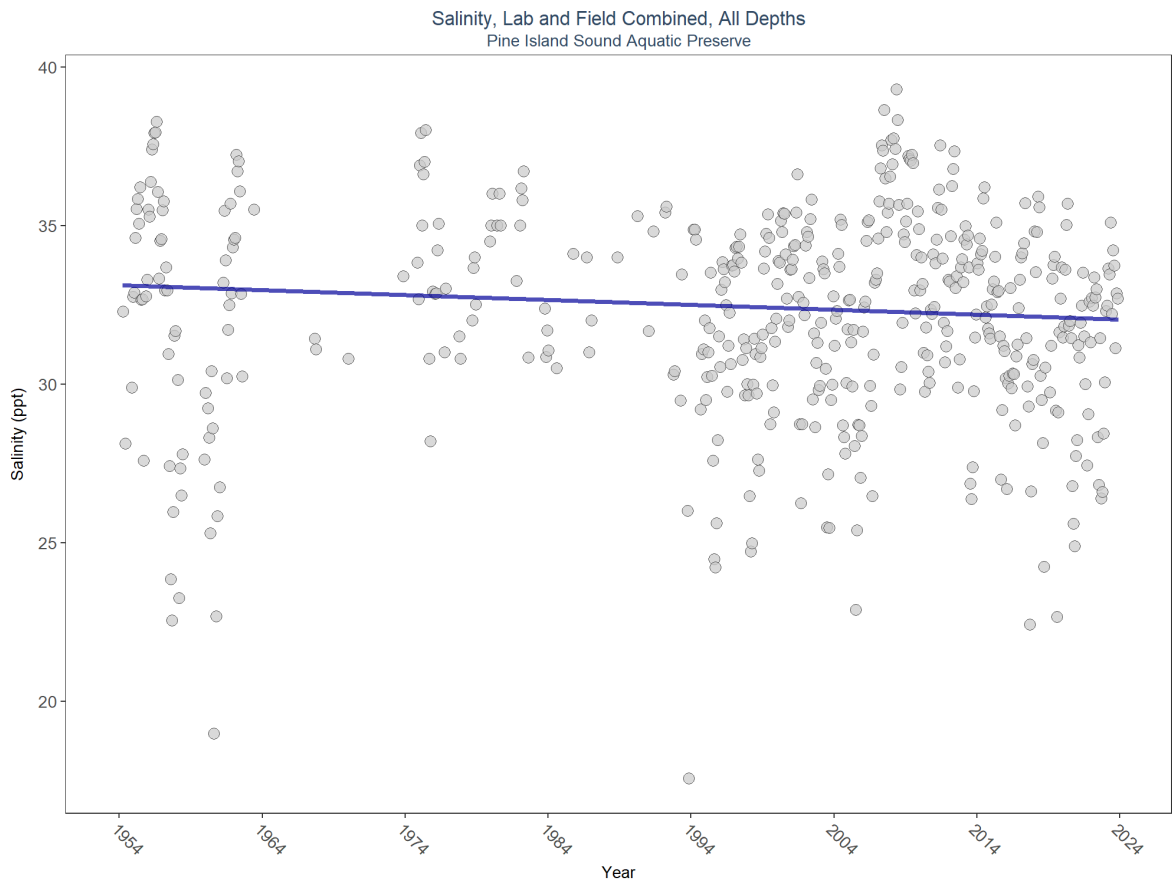


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	25506	37	8.1	TRUE	-0.0142	0.7035	-0.0002052974	8.111716	6.3198	0.8512	0

p < 0.00005 appear as 0 due to rounding.

*SennIntercept is intercept value at beginning of
record for monitoring location*

Salinity

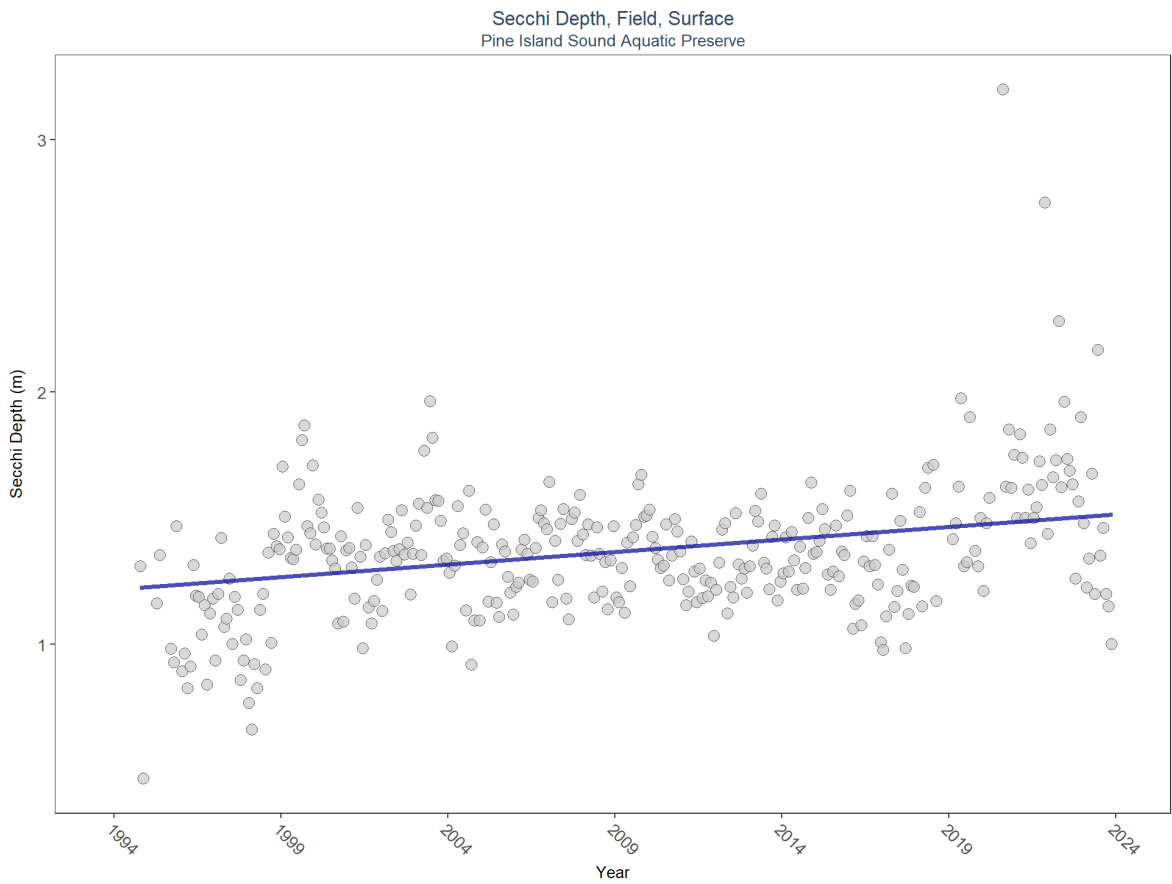


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	26638	62	32.9	TRUE	-0.0805	0.0129	-0.01552345	33.11989	7.4891	0.7582	-1

p < 0.00005 appear as 0 due to rounding.

*SennIntercept is intercept value at beginning of
record for monitoring location*

Secchi Depth

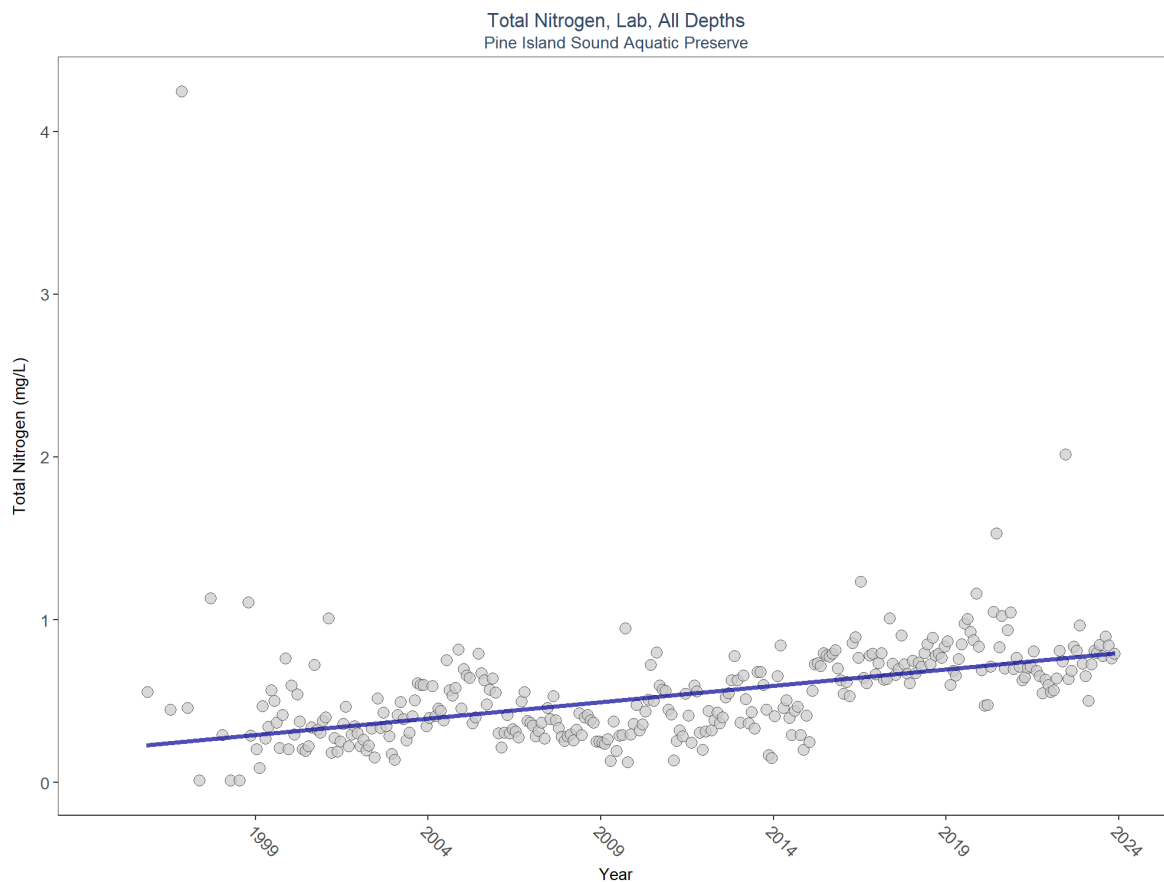


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
Surface	16231	30	1.2	TRUE	0.2259	0.0000	0.009961556	1.216	4.5889	0.9494	1

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

SennIntercept is intercept value at beginning of record for monitoring location

Total Nitrogen

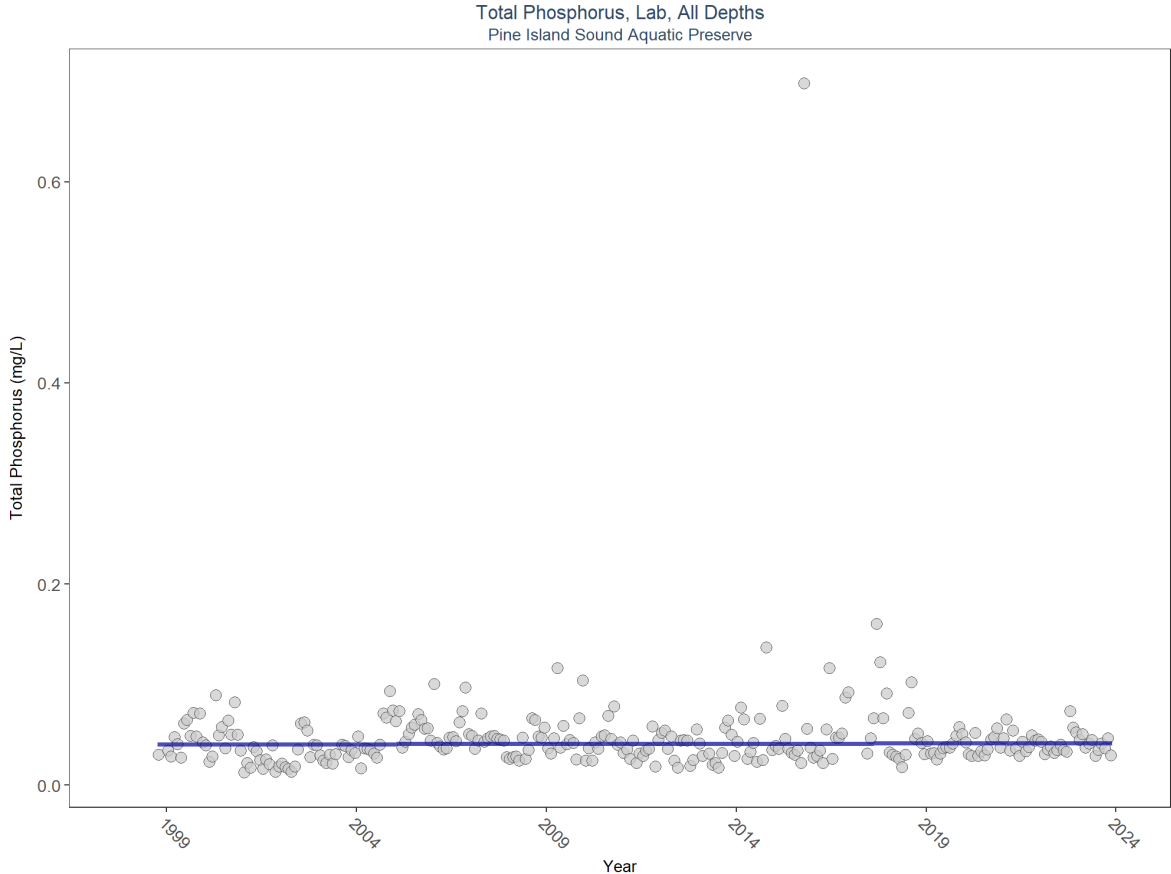


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	4100	29	0.53	TRUE	0.4389	0.0000	0.02011101	0.2130017	9.5559	0.5707	1

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

SennIntercept is intercept value at beginning of record for monitoring location

Total Phosphorus

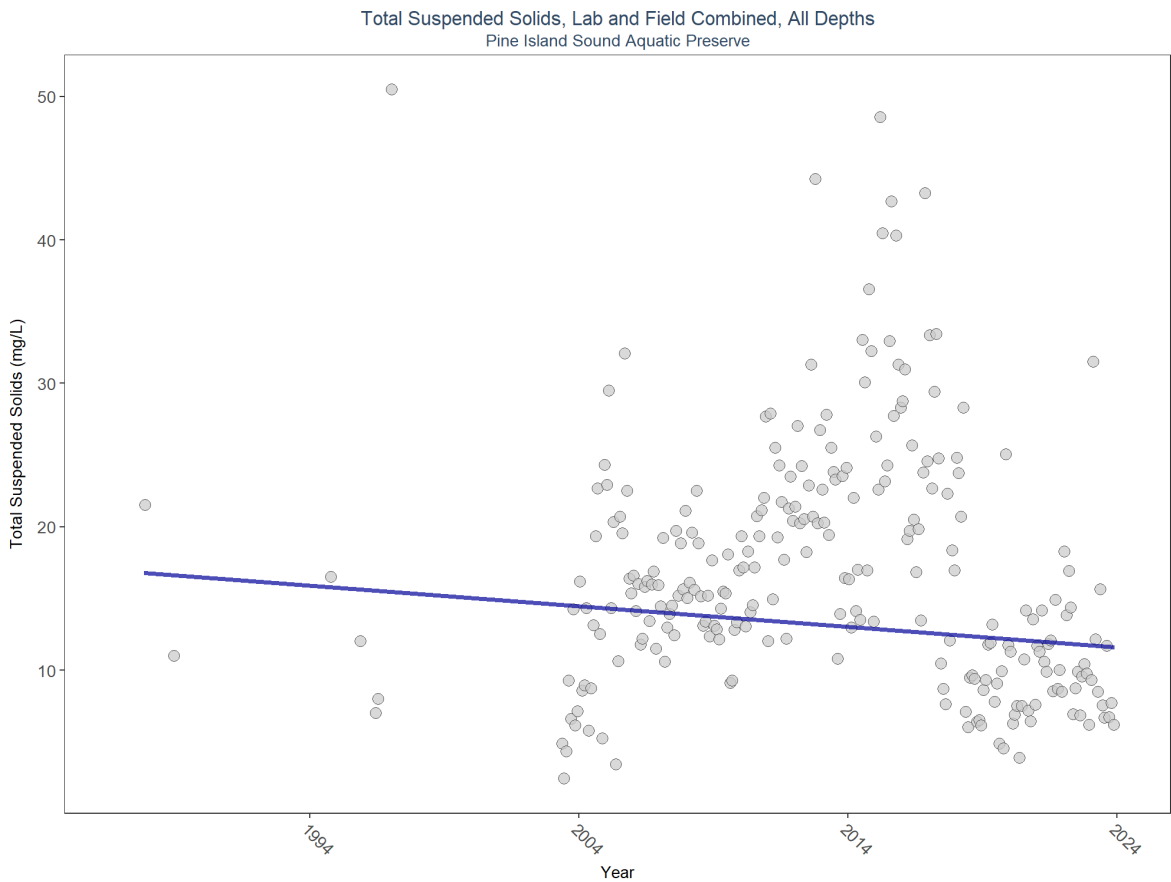


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	2649	26	0.036	TRUE	0.0171	0.7261	0.00004334903	0.04042068	17.8329	0.0855	0

p < 0.00005 appear as 0 due to rounding.

*SennIntercept is intercept value at beginning of
record for monitoring location*

Total Suspended Solids

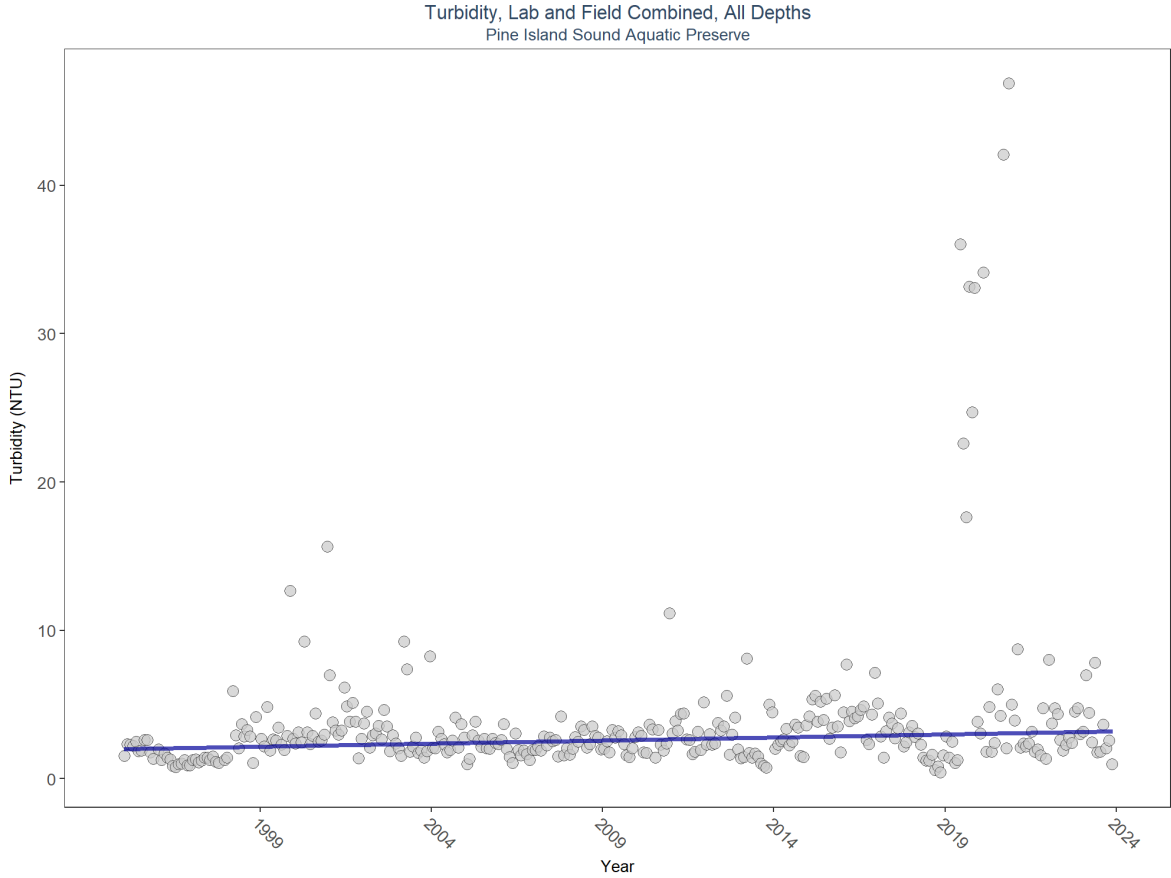


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	2635	27	12.7	TRUE	-0.0574	0.2065	-0.1434598	16.89323	7.9098	0.7214	0

p < 0.00005 appear as 0 due to rounding.

*SennIntercept is intercept value at beginning of
record for monitoring location*

Turbidity

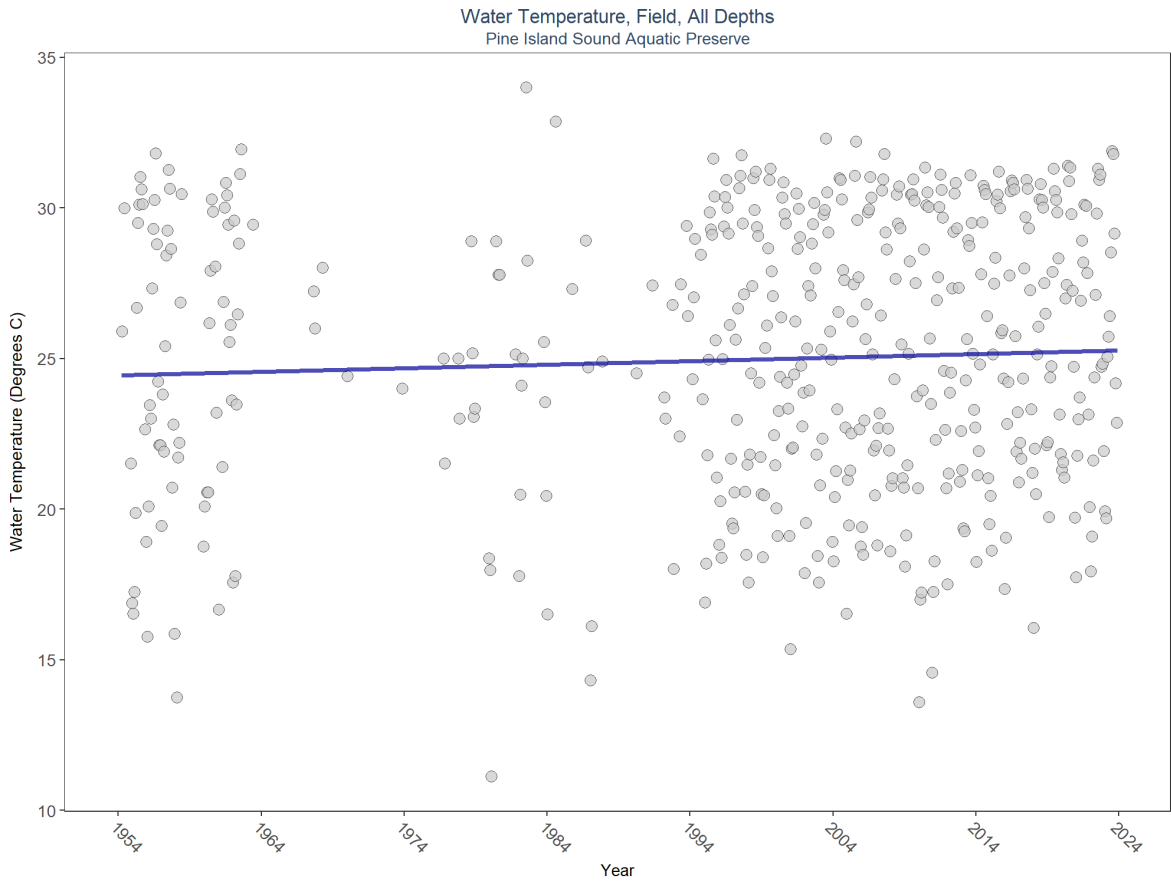


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	8051	29	1.94	TRUE	0.1685	0.0000	0.04120408	1.989347	7.5217	0.7554	1

p < 0.00005 appear as 0 due to rounding.

*SennIntercept is intercept value at beginning of
record for monitoring location*

Water Temperature



RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	29796	60	26.2	TRUE	0.107	0.0010	0.01198896	24.43794	10.1184	0.5198	1

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

SennIntercept is intercept value at beginning of record for monitoring location