

Guana Tolomato Matanzas National Estuarine Research Reserve

SEACAR Discrete Water Quality Analysis

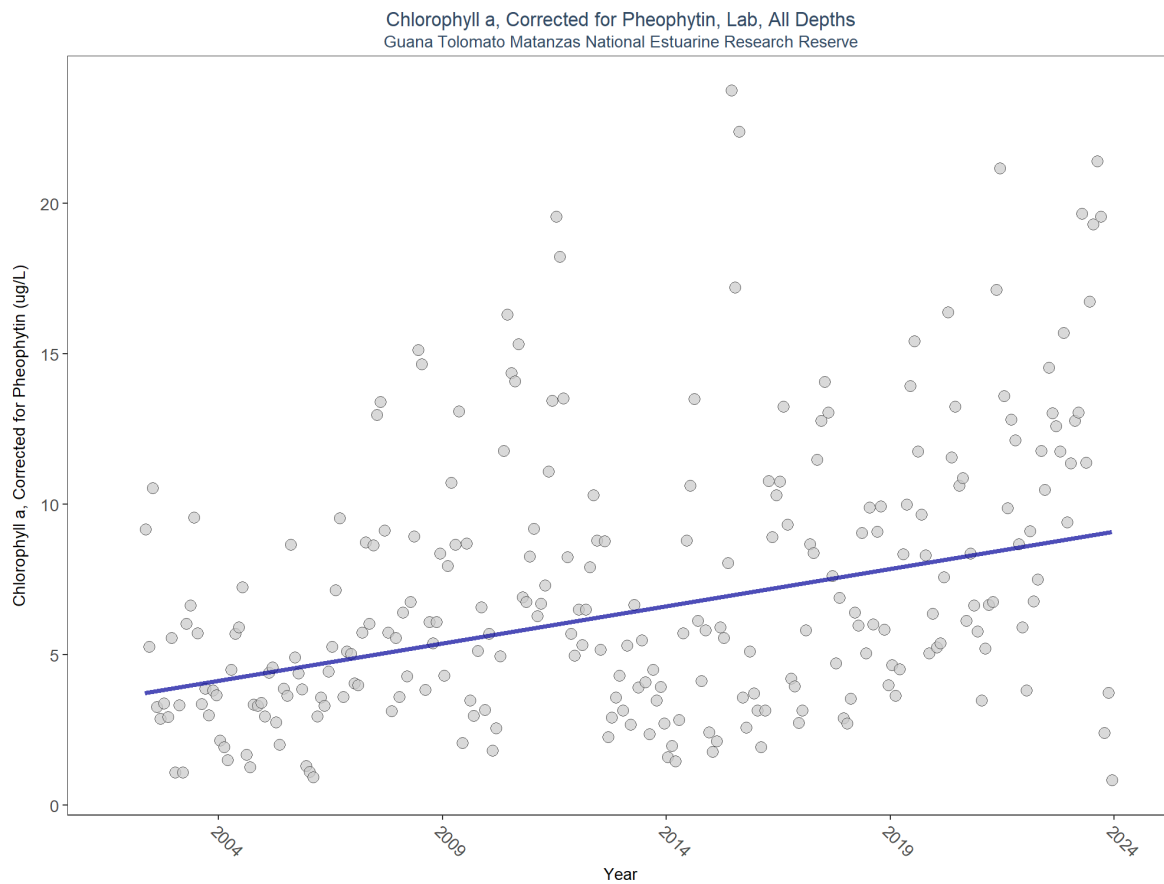
Last compiled on 26 June, 2024

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

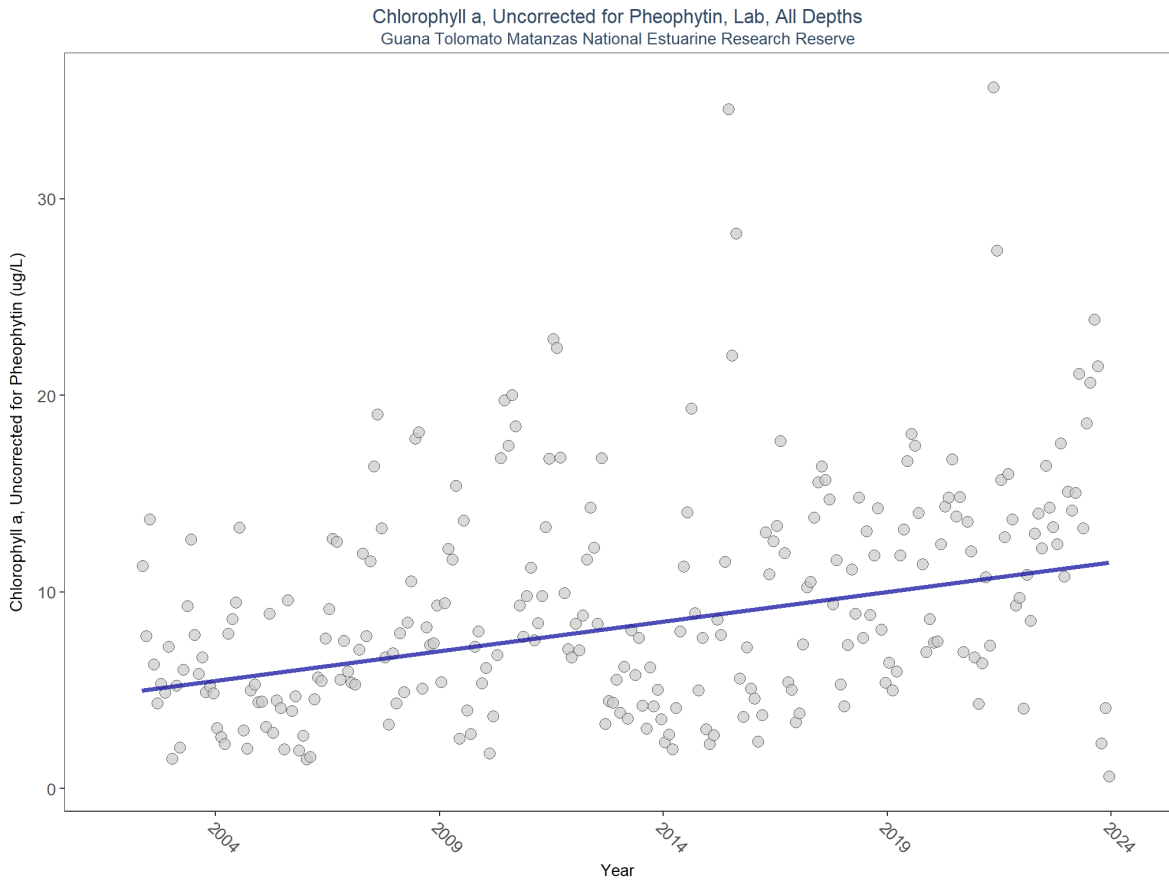


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	7125	22	4.7	TRUE	0.3319	0.0000	0.2475213	3.653807	5.017	0.9303	1

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

SennIntercept is intercept value at beginning of record for monitoring location

Chlorophyll a, Uncorrected for Pheophytin

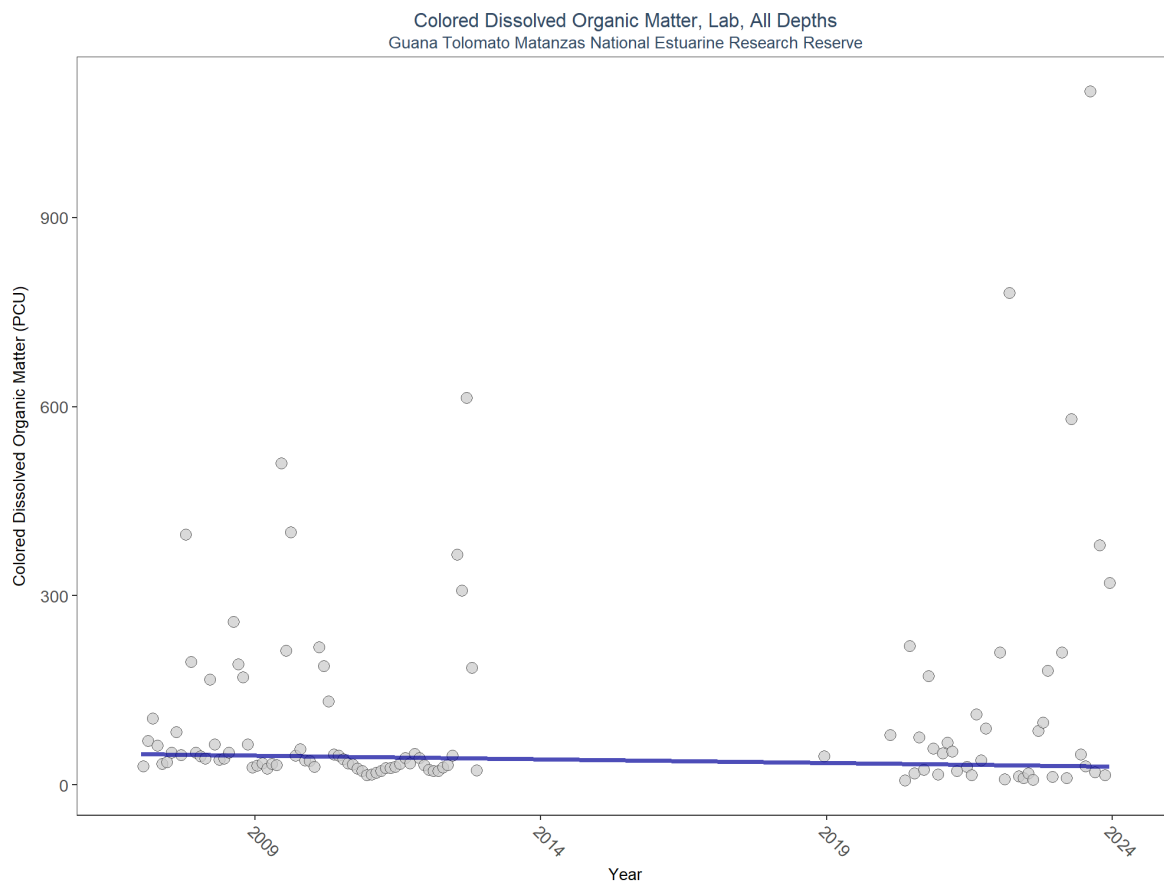


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	5502	22	6.2	TRUE	0.3047	0.0000	0.3004353	4.89195	3.7902	0.9757	1

p < 0.00005 appear as 0 due to rounding.

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

Colored Dissolved Organic Matter

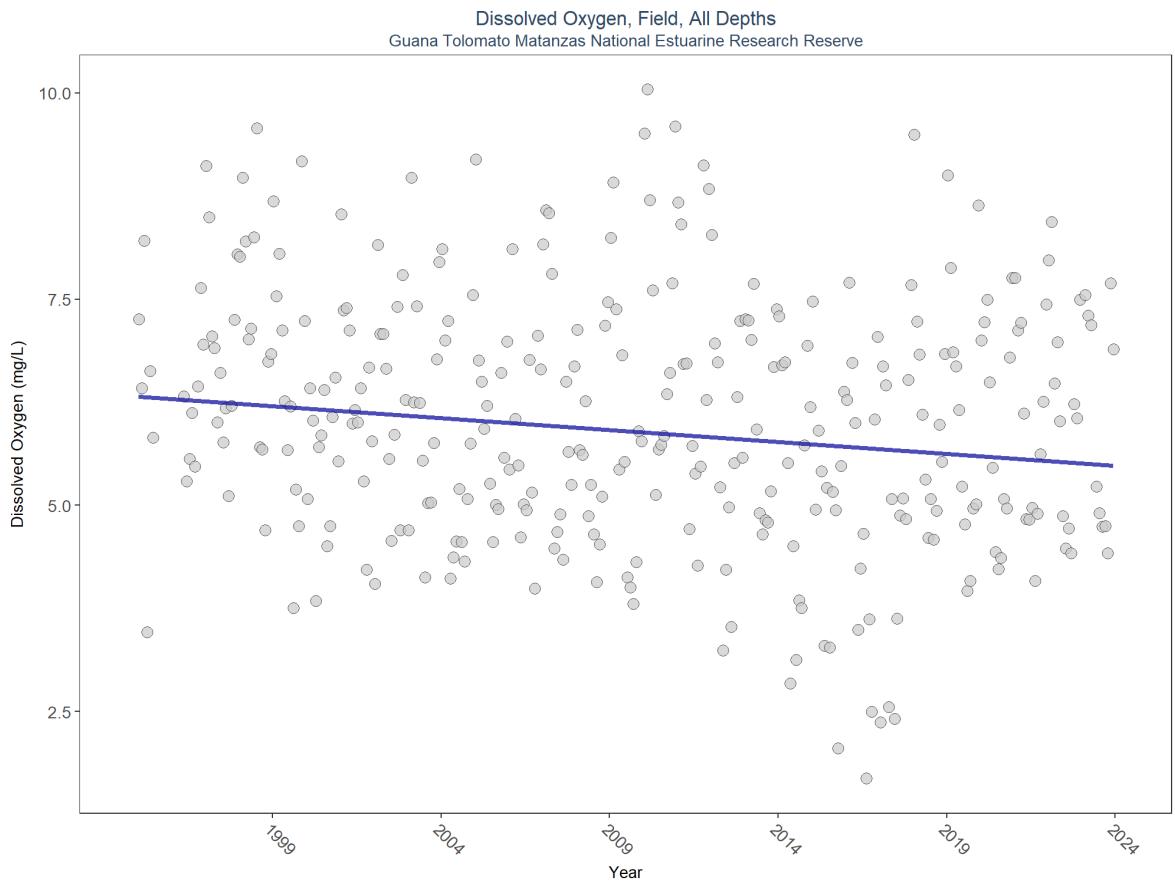


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	1483	11	38.2	TRUE	-0.1617	0.0368	-1.168068	49.06626	6.6607	0.8259	-1

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

SennIntercept is intercept value at beginning of record for monitoring location

Dissolved Oxygen

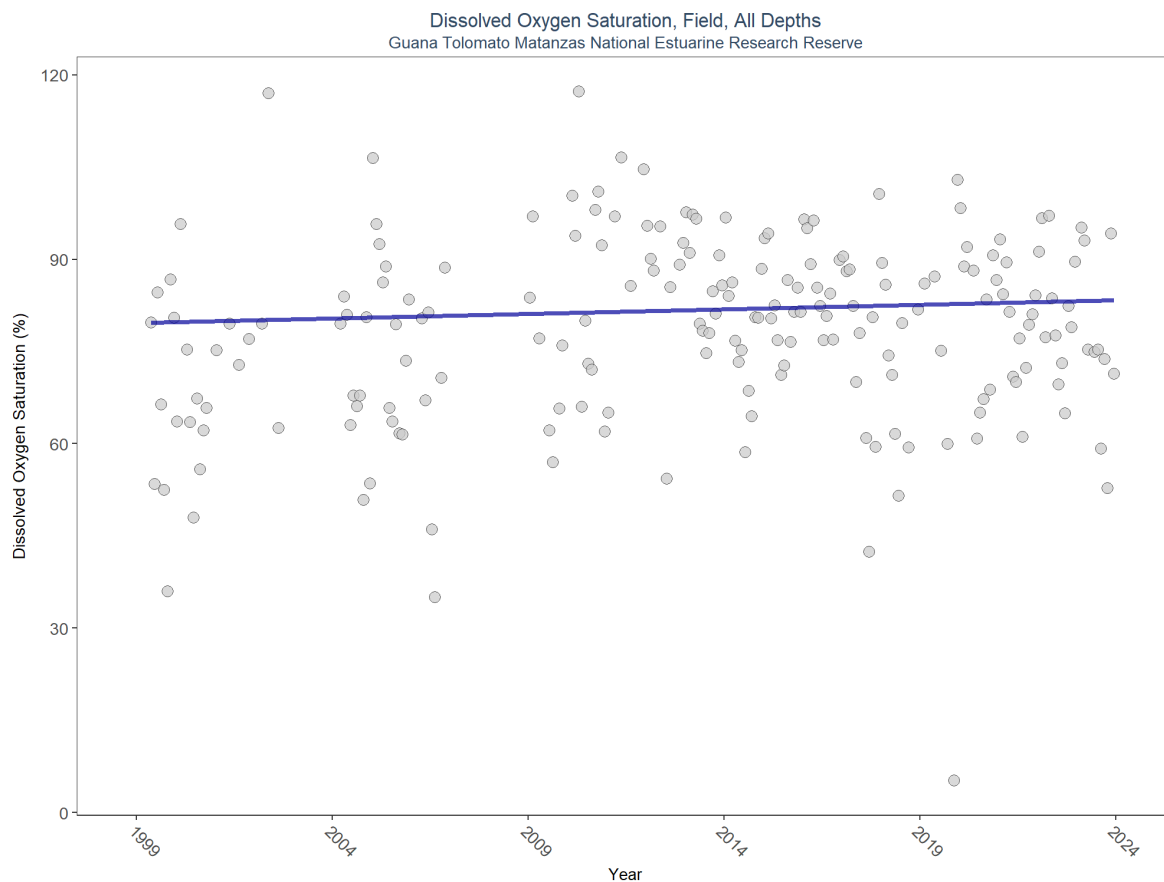


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	21501	29	6	TRUE	-0.1733	0.0000	-0.02904828	6.321064	20.8372	0.0351	-1

p < 0.00005 appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

Dissolved Oxygen Saturation

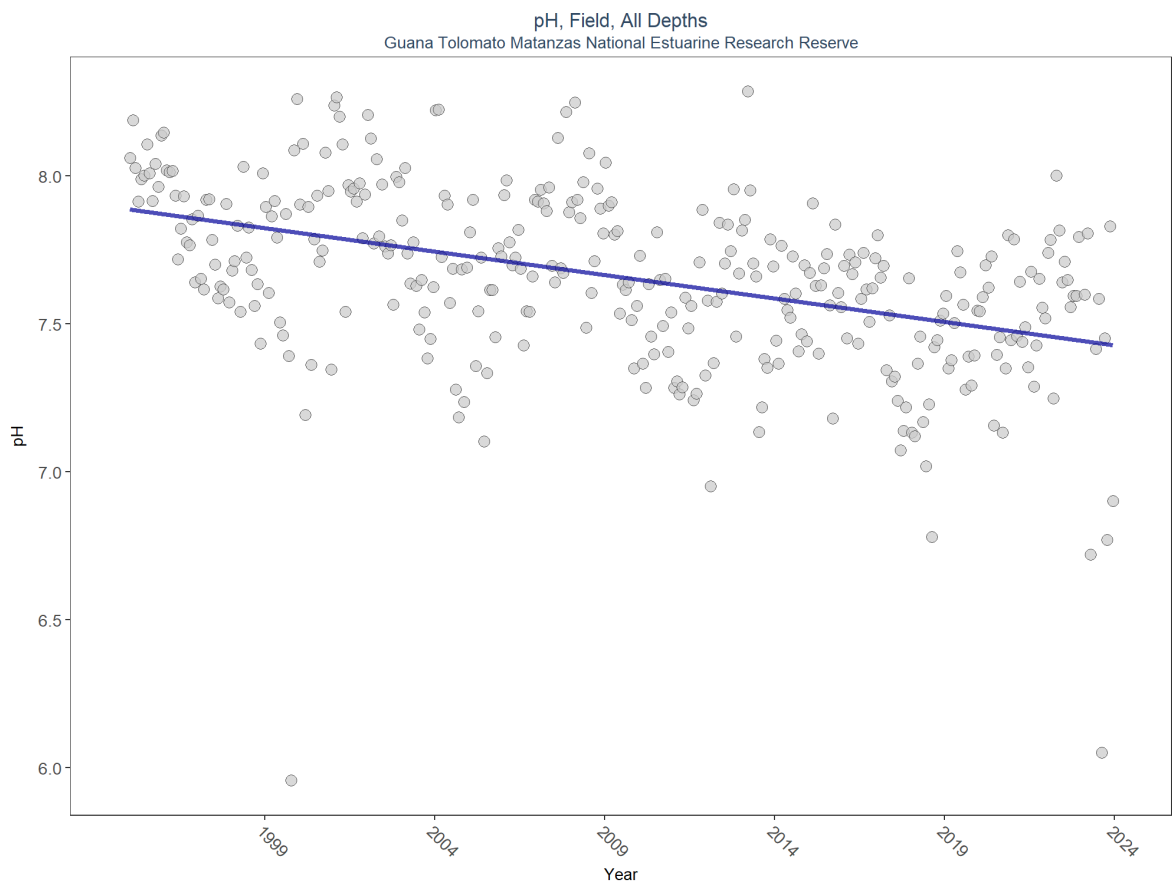


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	2194	22	81	TRUE	0.0716	0.1710	0.1513333	79.61967	7.2931	0.7749	0

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

SennIntercept is intercept value at beginning of record for monitoring location

pH

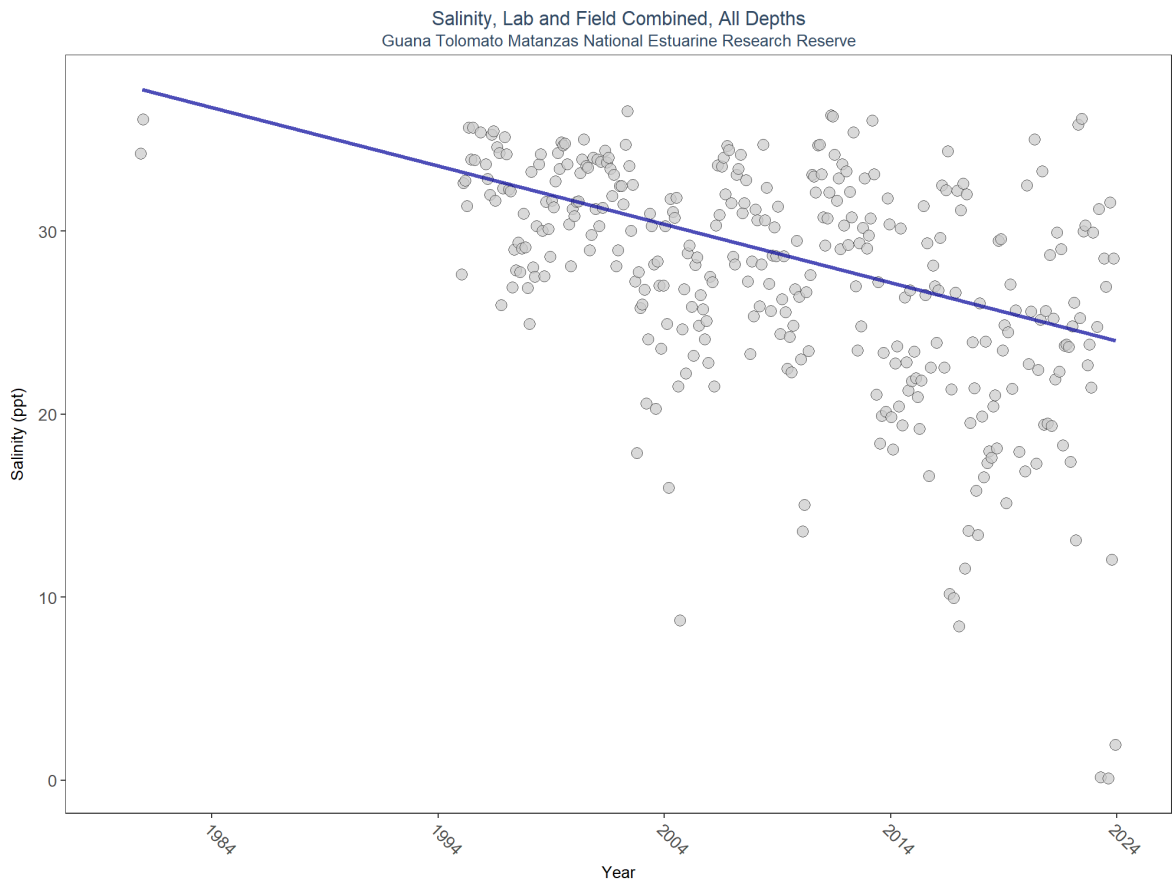


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	17684	29	7.8	TRUE	-0.368	0.0000	-0.01581572	7.887555	3.1729	0.9882	-1

p < 0.00005 appear as 0 due to rounding.

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

Salinity

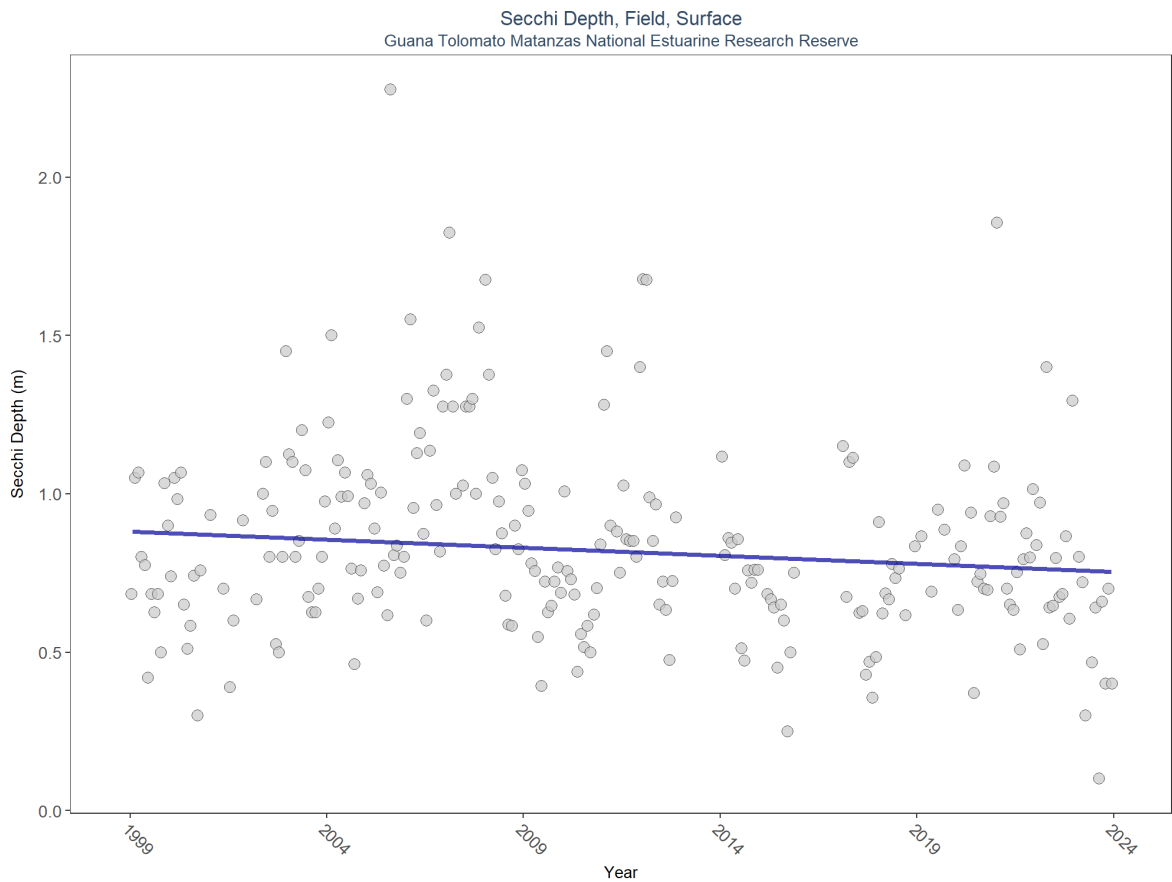


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	24767	30	31.8	TRUE	-0.3585	0.0000	-0.3190867	38.04552	3.688	0.9782	-1

p < 0.00005 appear as 0 due to rounding.

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

Secchi Depth

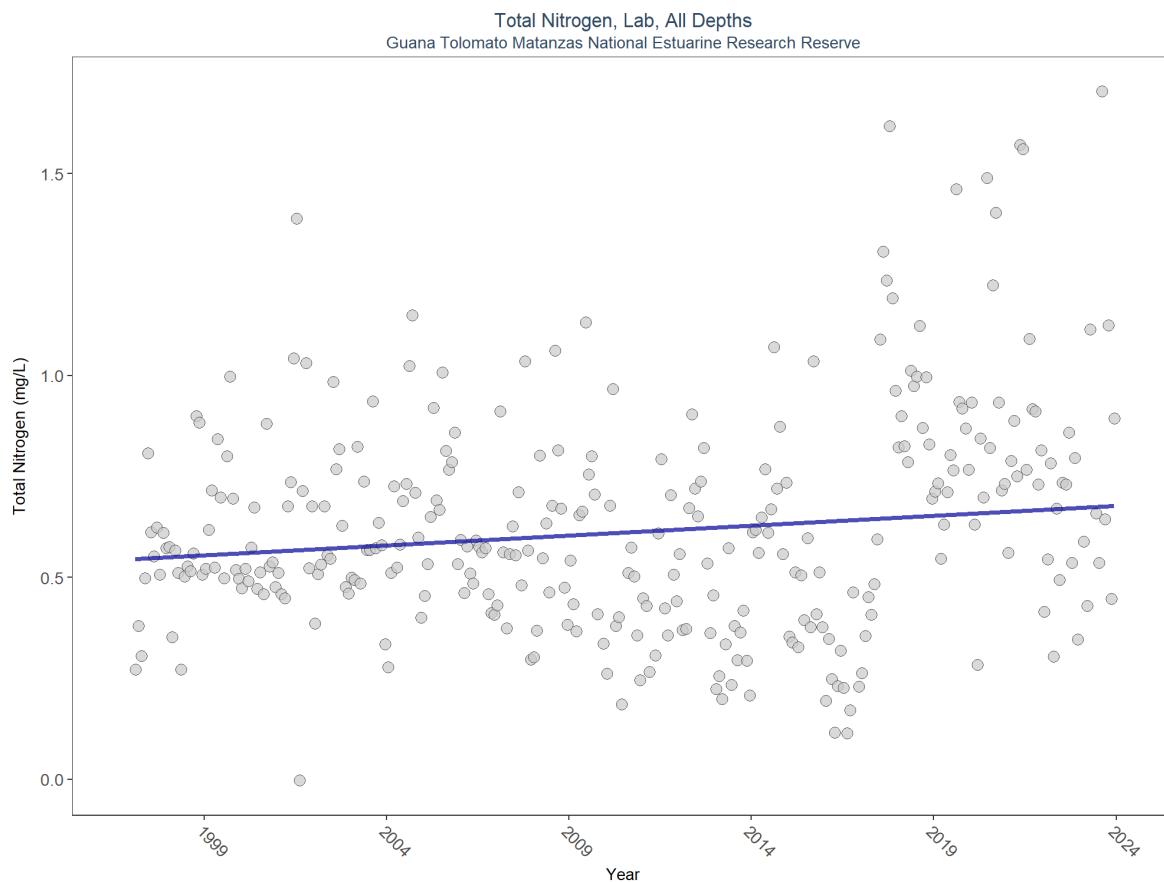


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
Surface	2713	23	0.8	TRUE	-0.1426	0.0031	-0.005059524	0.8801523	13.8693	0.2403	-1

p < 0.00005 appear as 0 due to rounding.

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

Total Nitrogen

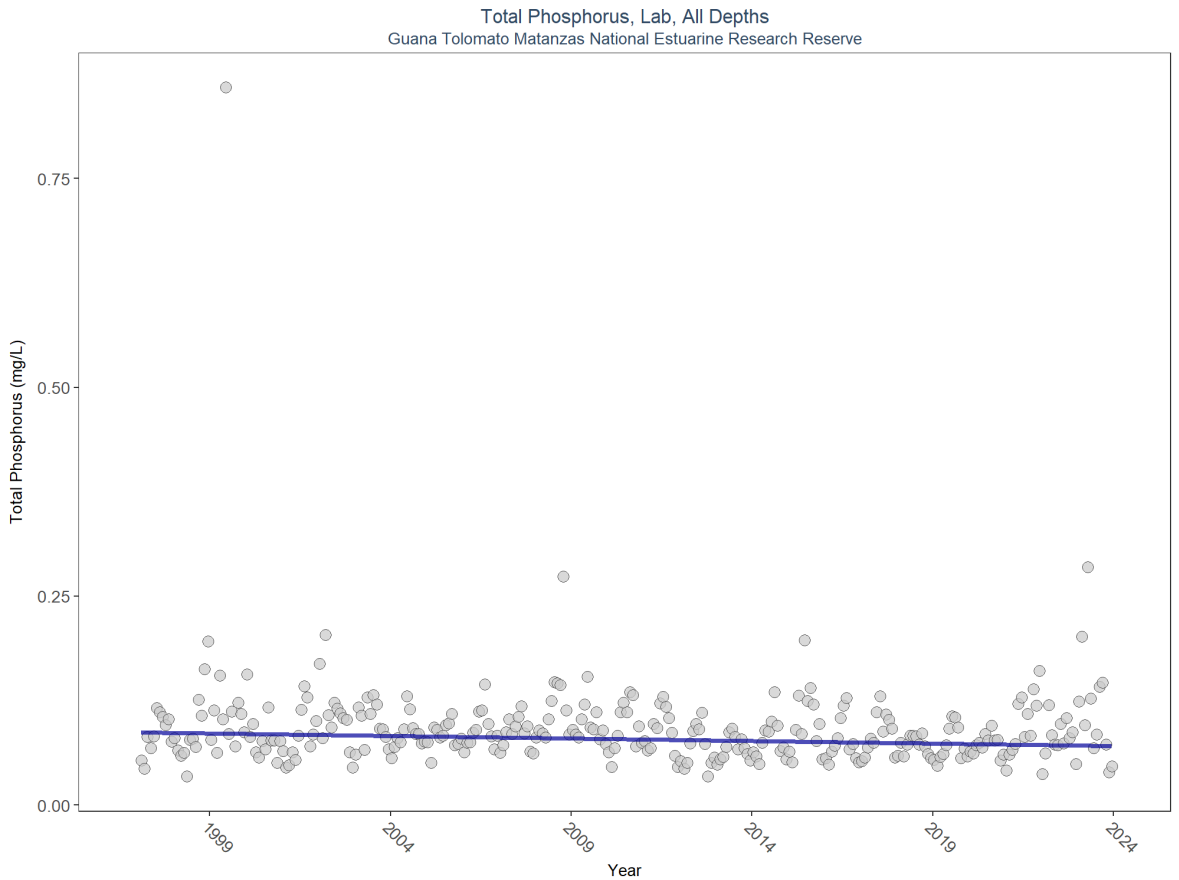


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	5377	27	0.545	TRUE	0.0963	0.0152	0.004893467	0.5449409	4.0518	0.9684	1

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

SennIntercept is intercept value at beginning of record for monitoring location

Total Phosphorus

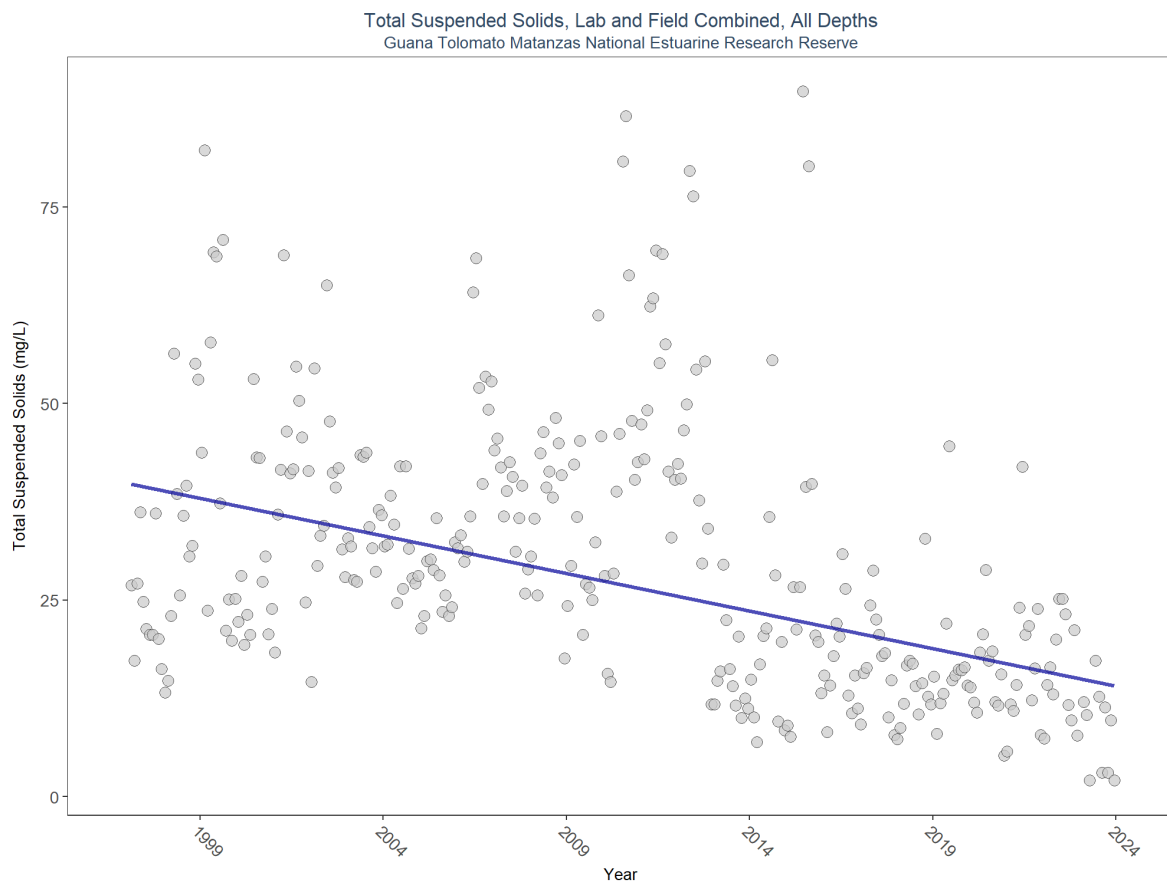


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	8011	27	0.074	TRUE	-0.1388	0.0005	-0.0006093633	0.08704061	11.181	0.4282	-1

p < 0.00005 appear as 0 due to rounding.

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

Total Suspended Solids

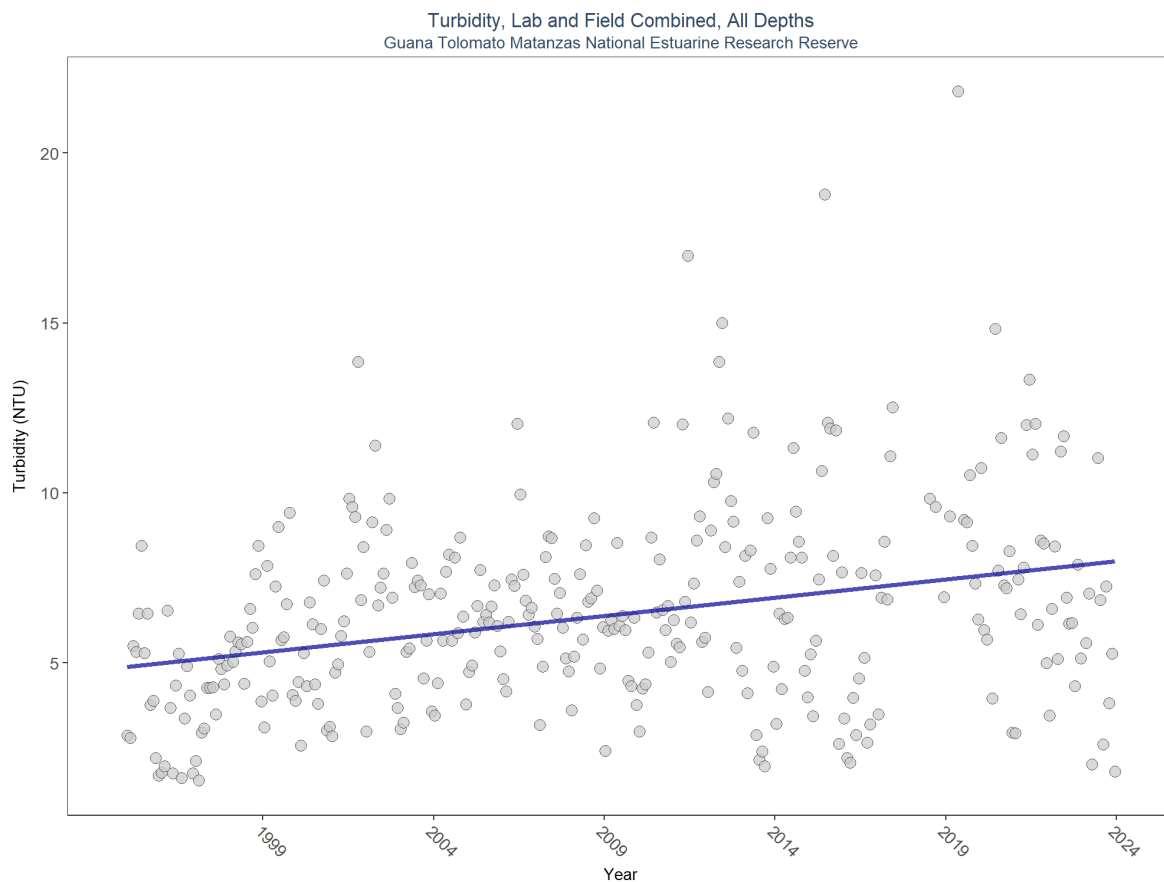


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	6130	27	23	TRUE	-0.3751	0.0000	-0.9557633	39.87559	4.3971	0.9568	-1

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

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

Turbidity

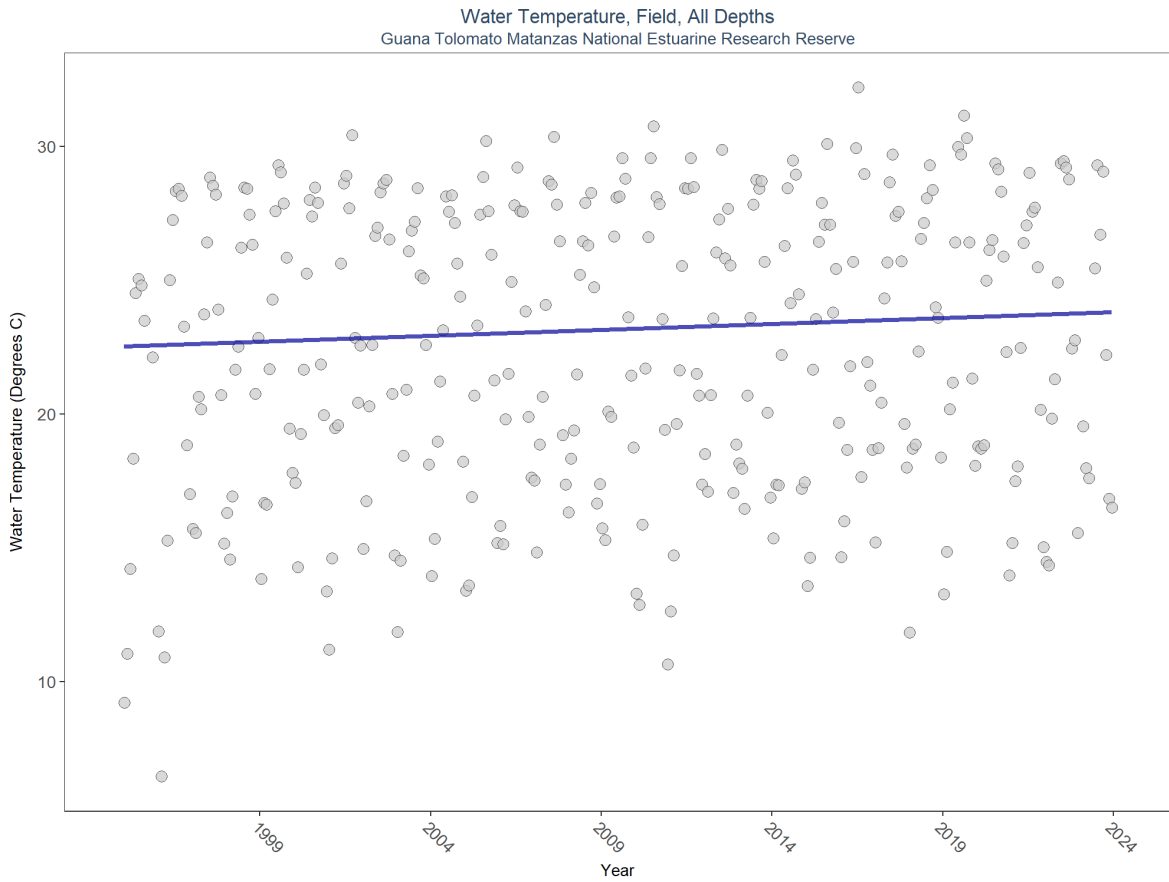


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	17118	29	4.8	TRUE	0.268	0.0000	0.1075408	4.873193	8.6739	0.652	1

$p < 0.00005$ 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	24240	29	23.3	TRUE	0.1665	0.0000	0.044238	22.52867	14.2868	0.2175	1

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

SennIntercept is intercept value at beginning of record for monitoring location