

# TEMPEST: Porewater SO<sub>4</sub>/Cl

2023-2025 Samples

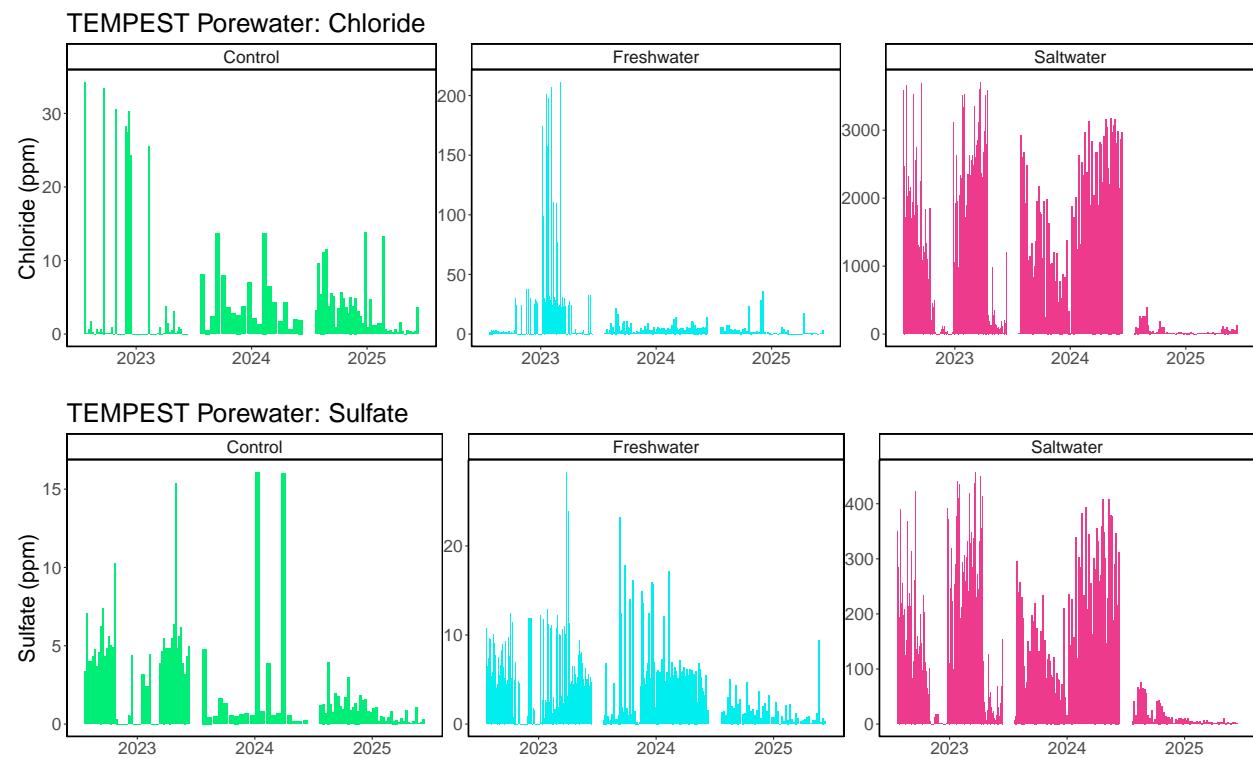
2026-02-23

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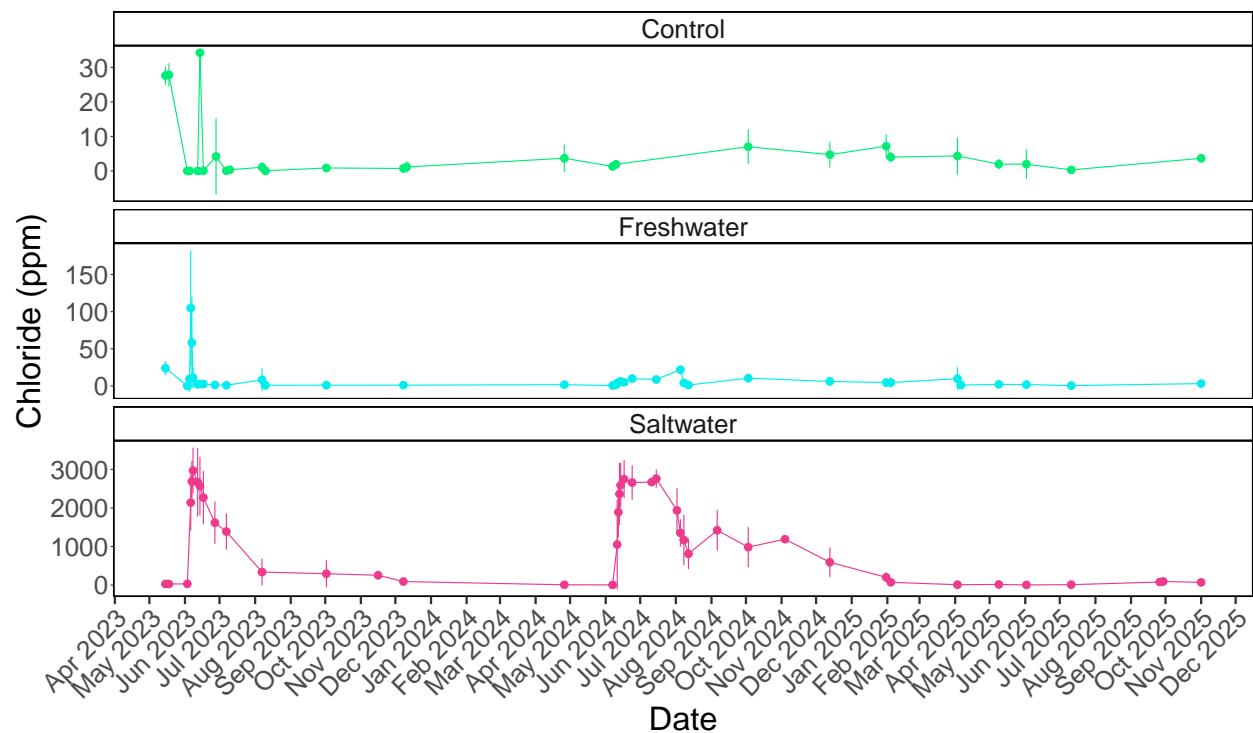
##Grab 2023 and 2024 and 2025 All Data Files  
##Make Relevant Metadata Sheet  
##Write out files

## 0.1 Visualize Porewater Data by Plot

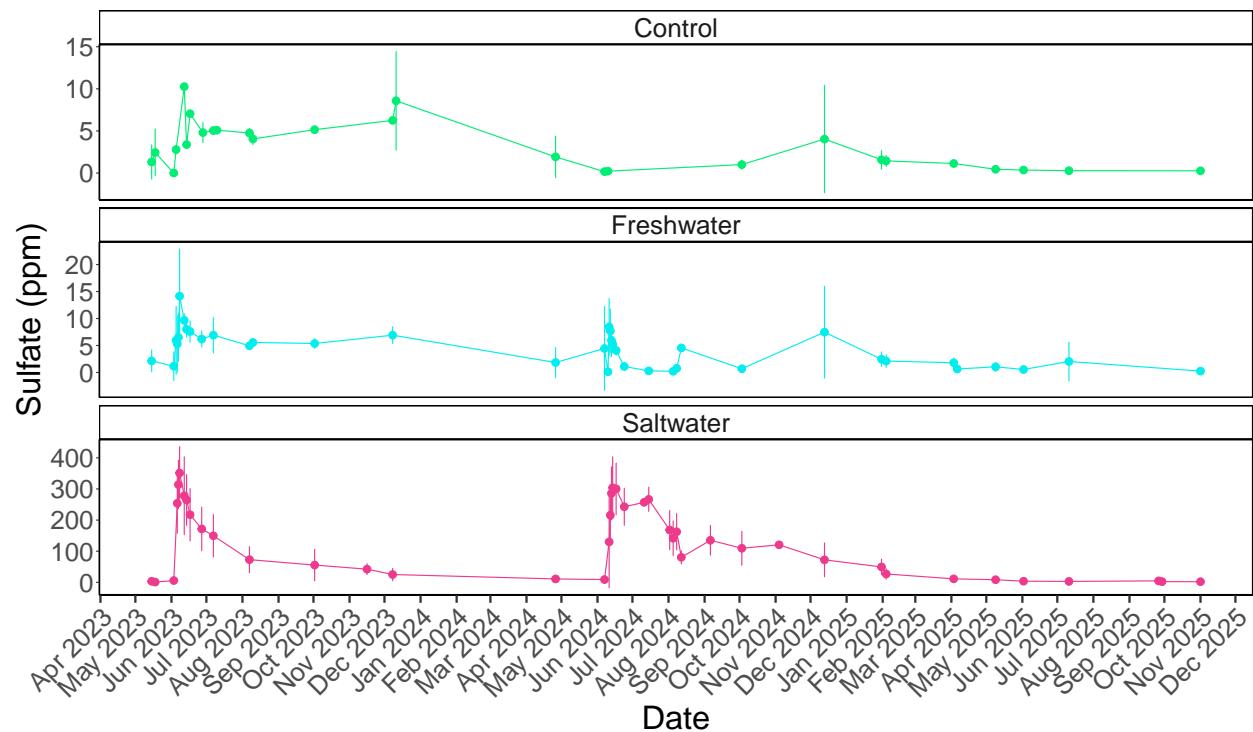


## 0.2 Summarized Porewater data for Plot and Collection Date

### TEMPEST Porewater: Chloride

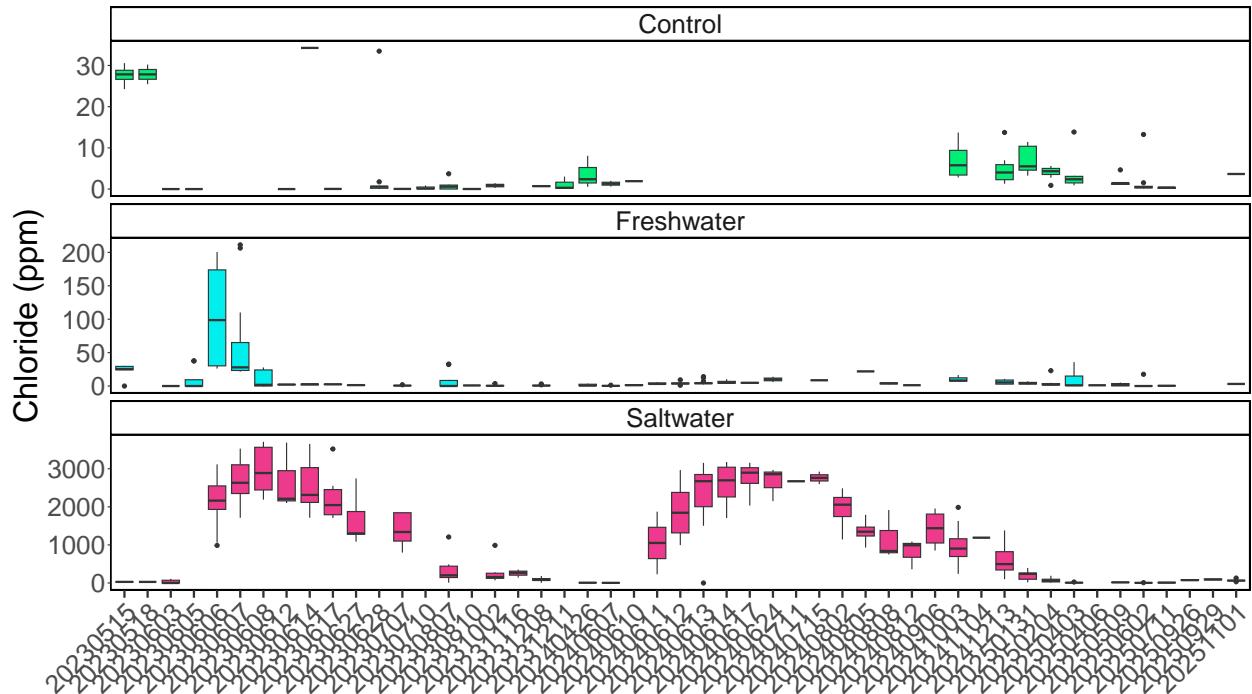


### TEMPEST Porewater: Sulfate

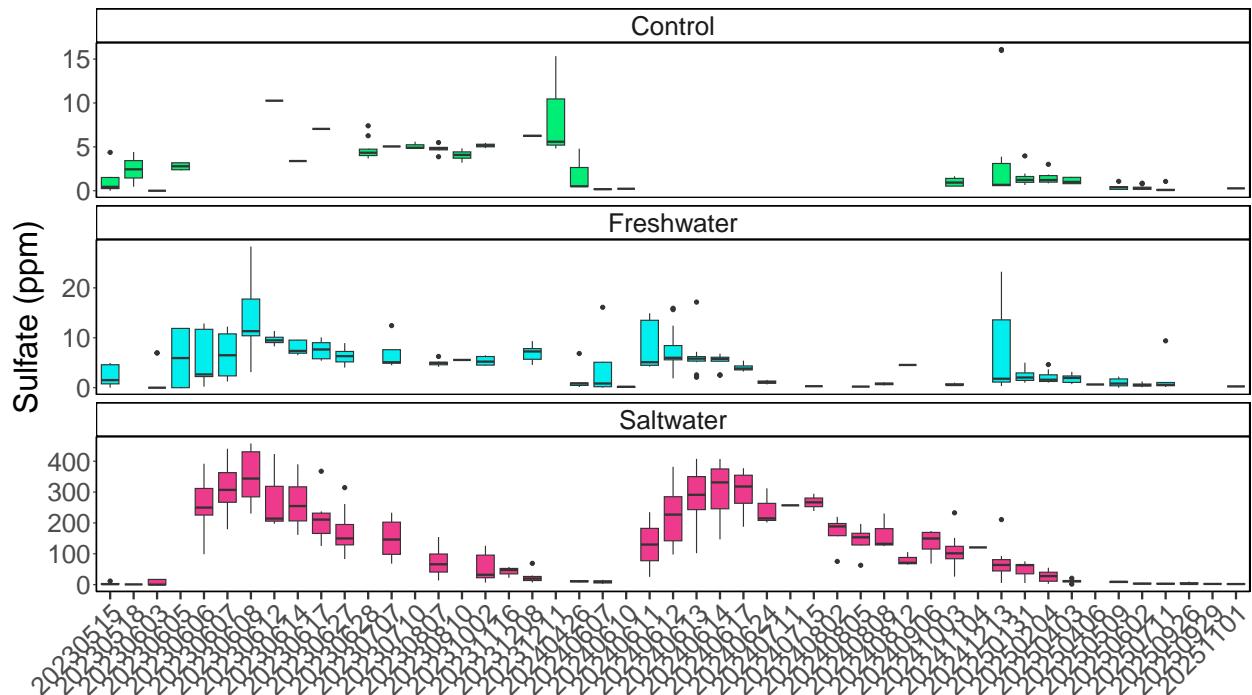


### 0.3 Boxplot summary for Porewater

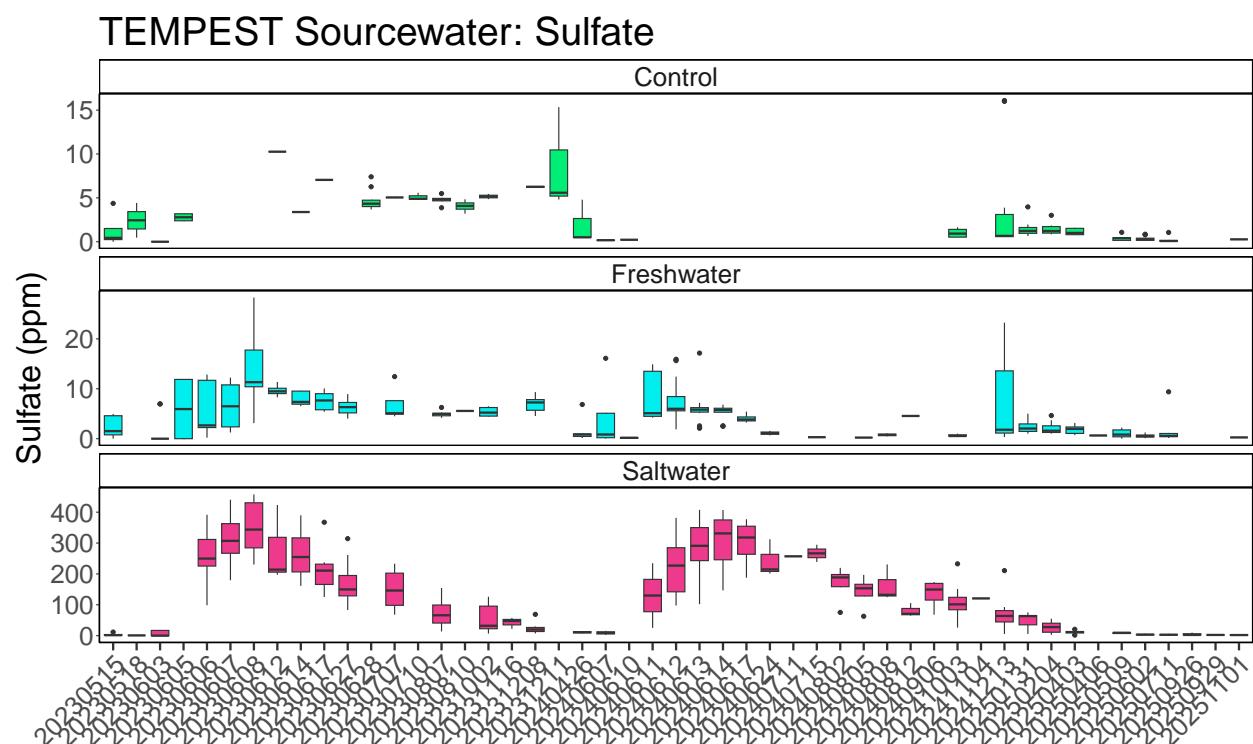
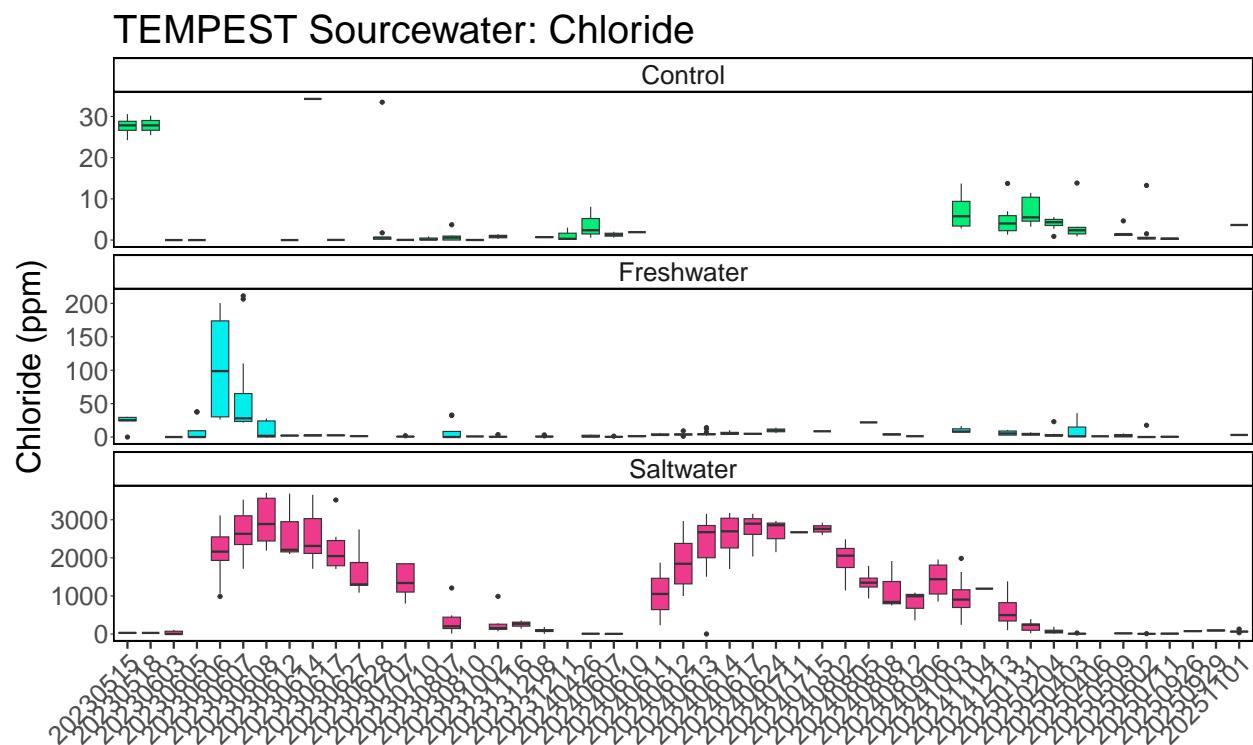
**TEMPEST Porewater: Chloride**



**TEMPEST Porewater: Sulfate**



#### 0.4 Boxplot summary for Sourcedwater



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##Calculate summary metrics for Porewater
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##Calculate summary metrics for Sourcedwater
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## 0.5 Summary Tables for Porewater

Table 1: Porewater Summary Statistics by Year

Year	plot_1	min_Cl_ppm	max_Cl_ppm	mean_Cl_ppm	min_SO4_ppm	max_SO4_ppm	mean_SO4_ppm
2023	Control	0.0000	34.2586	4.6520	0.0000	15.3405	3.5937
2023	Freshwater	0.0000	211.2593	21.8328	0.0000	28.2839	5.9998
2023	Saltwater	0.0000	3706.9076	1495.7823	0.0000	457.3600	173.3285
2024	Control	0.5591	13.7413	4.5441	0.1648	16.0863	2.5349
2024	Freshwater	0.2529	21.8991	4.9821	0.0000	23.2406	5.3516
2024	Saltwater	0.0000	3177.8905	1654.9137	2.1851	407.5898	185.1788
2025	Control	0.0232	13.8442	3.4403	0.0453	3.9657	0.9111
2025	Freshwater	0.0000	35.8056	3.8120	0.0000	9.3896	1.6037
2025	Saltwater	1.4007	392.6059	56.1152	0.8630	75.5324	14.8899

Table 2: Porewater Summary Statistics by Plot

plot_1	min_Cl_ppm	max_Cl_ppm	mean_Cl_ppm	min_SO4_ppm	max_SO4_ppm	mean_SO4_ppm
Control	0	34.2586	4.1946	0	16.0863	2.4399
Freshwater	0	211.2593	12.3977	0	28.2839	4.8845
Saltwater	0	3706.9076	1219.4745	0	457.3600	141.0043

## 0.6 Summary Tables for Sourcewater

Table 3: Sourcewater Summary Statistics by Year

Year	plot_1	min_Cl_ppm	max_Cl_ppm	mean_Cl_ppm	min_SO4_ppm	max_SO4_ppm	mean_SO4_ppm
2023	Freshwater	0.0000	25.8769	16.0896	0.0140	581.1936	106.4578
2023	Saltwater	1507.7995	4300.3781	3675.8716	181.2240	571.0464	485.5921
2023	Estuary	3636.5862	4335.7195	4065.5902	480.7045	581.2849	539.9760
2024	Freshwater	3.1488	4.6792	4.0111	7.9322	8.9432	8.3899
2024	Saltwater	3194.8201	3667.6635	3418.0266	419.2784	483.8673	451.9032
2024	Estuary	3269.2374	3860.8575	3621.6212	428.4834	511.3148	476.8954

##Write out summarized data