

TEMPEST: Porewater SO₄/Cl

2024-2025 Samples

2025-12-19

Contents

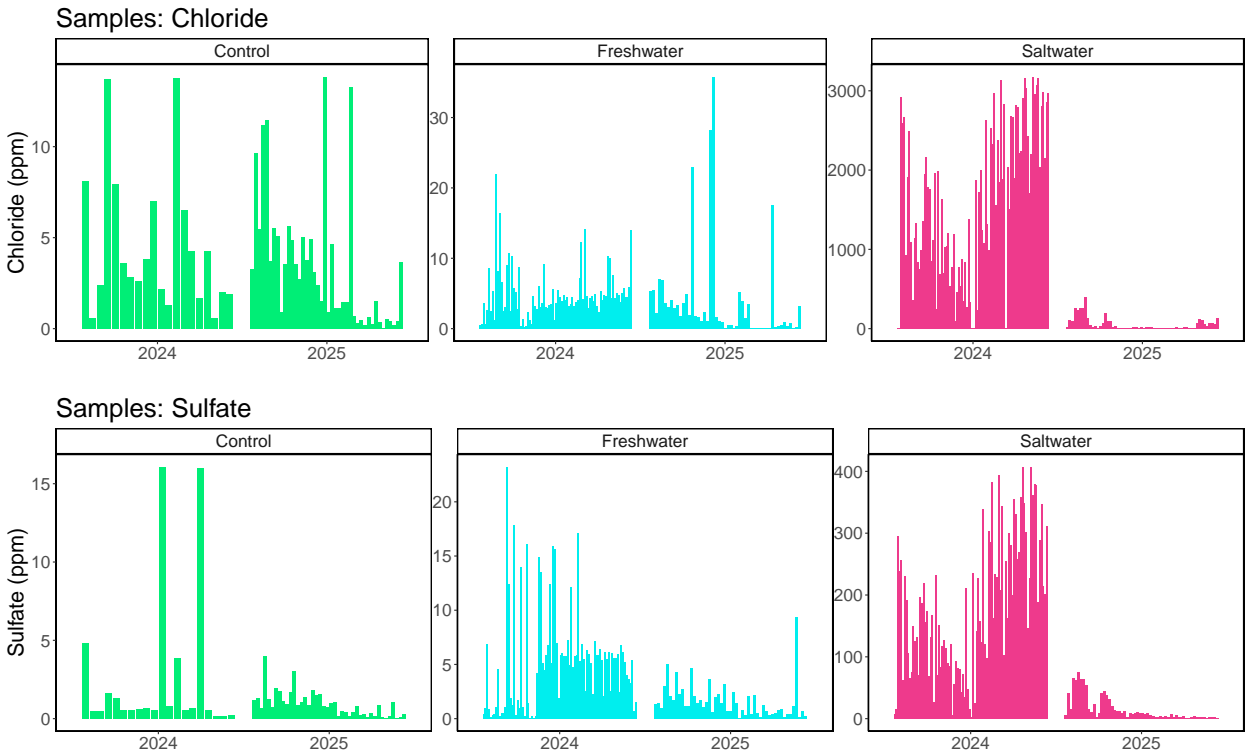
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##Grab 2022 and 2023 All Data Files

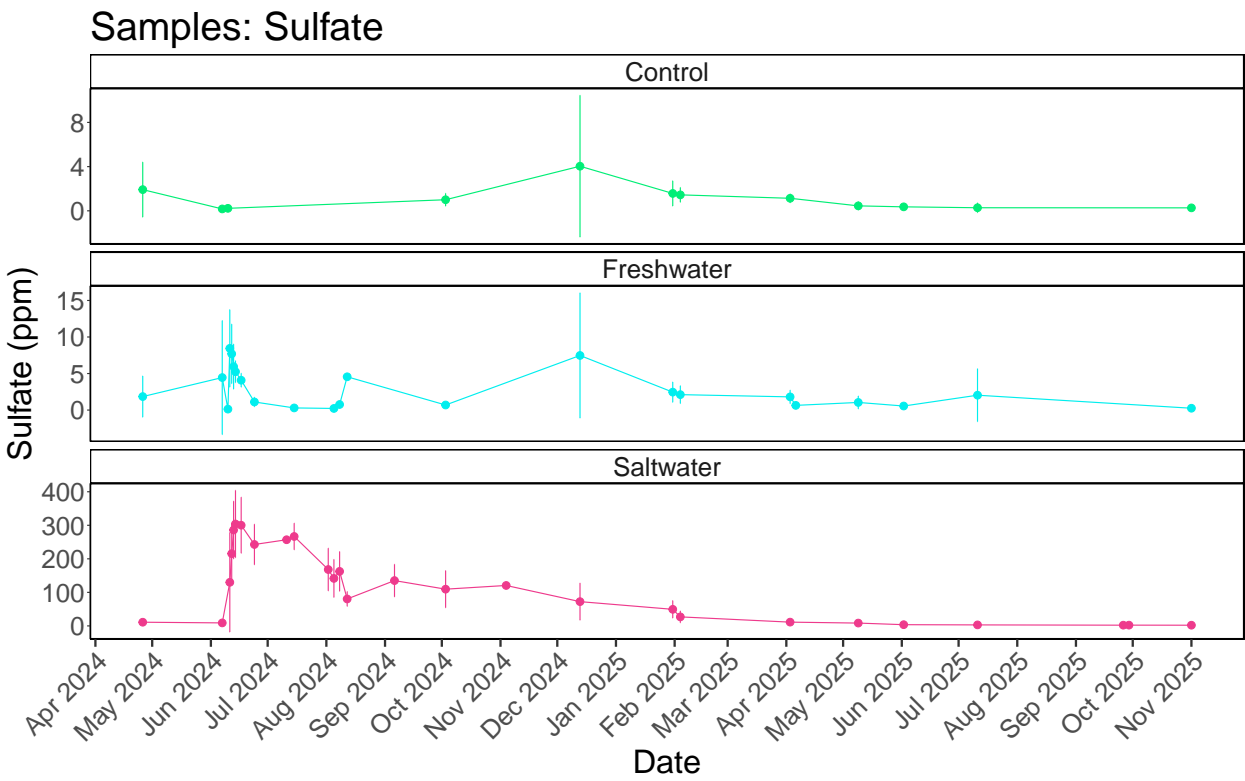
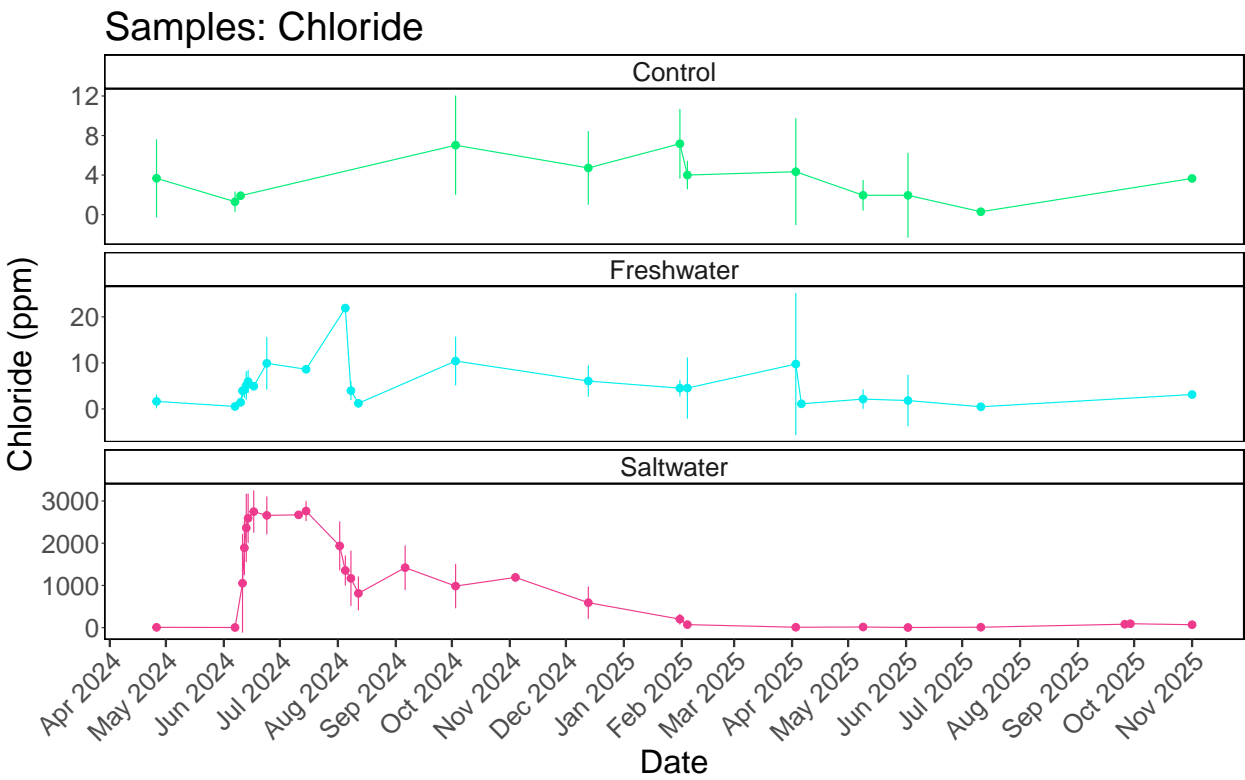
##Make Relevant Metadata Sheet

##Write out files

0.1 Visualize Data by Zone

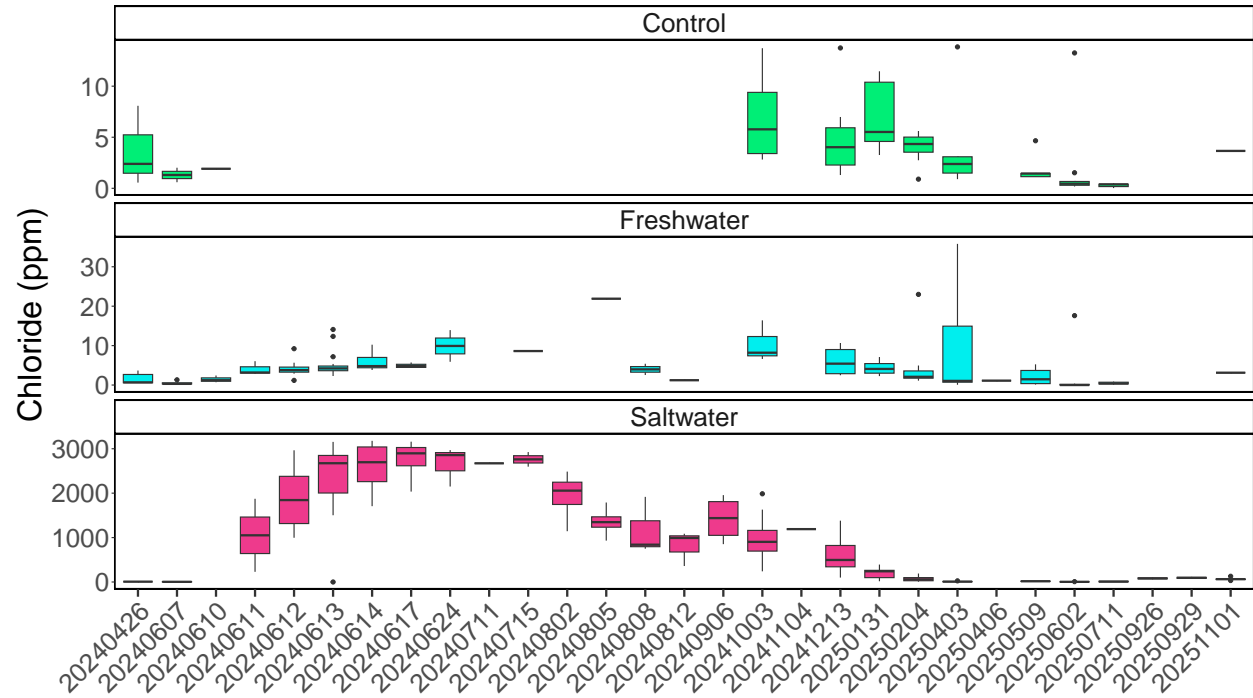


0.2 Summarized data for Site and Zone

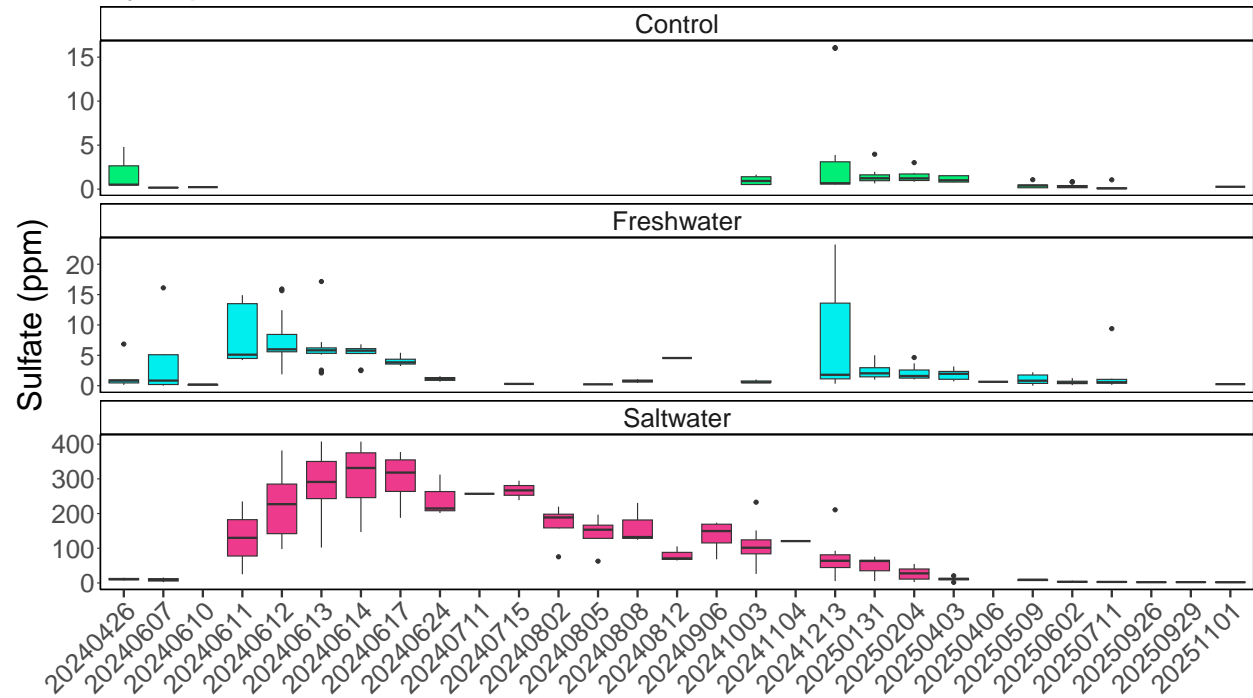


0.3 Boxplot summary

Synoptic CB Porewater: Chloride



Synoptic CB Porewater: Sulfate



##Calculate summary metrics

0.4 Summary Tables

Table 1: Summary Statistics by Year

| Year | Zone_1 | min_Cl_ppm | max_Cl_ppm | mean_Cl_ppm | min_SO4_ppm | max_SO4_ppm | mean_SO4_ppm |
|------|------------|------------|------------|-------------|-------------|-------------|--------------|
| 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 | 55.8079 | 0.8630 | 75.5324 | 14.9716 |

Table 2: Summary Statistics by Zone

| Zone_1 | min_Cl_ppm | max_Cl_ppm | mean_Cl_ppm | min_SO4_ppm | max_SO4_ppm | mean_SO4_ppm |
|------------|------------|------------|-------------|-------------|-------------|--------------|
| Control | 0.0232 | 13.8442 | 3.7963 | 0.0453 | 16.0863 | 1.4349 |
| Freshwater | 0.0000 | 35.8056 | 4.5465 | 0.0000 | 23.2406 | 3.9564 |
| Saltwater | 0.0000 | 3177.8905 | 1015.2714 | 0.8630 | 407.5898 | 117.0959 |

##Write out summarized data