Sediment Trap Summary

2024-12-06

This report provides summary tables and figures for the sediment trap data at Tampa Bay and Caloosahatchee River stations from December 2022 through November 2024.  
  
Monthly data is standardized to a 28-day month unless otherwise noted.  
  
Overall values are based on all data summarizes together. Data is extrapolated to the entire sample collected in most cases. Columns including “Sample” in the title are from crucible data and not extrapolated to the entire sample collected.

Table 1. Sedimentation rates (g/month) by station and overall during the project. Rates are standardized to 28-day months.

| **Estuary** | **Station** | **MeanRate** | **sdRate** | **MinRate** | **MaxRate** |
| --- | --- | --- | --- | --- | --- |
| CR |  |  |  |  |  |
|  | 1 | 75.85 | 61.83 | 12.45 | 348.70 |
|  | 2 | 58.46 | 91.70 | 0.66 | 522.68 |
|  | 3 | 45.52 | 124.07 | 2.80 | 563.52 |
|  | 4 | 93.72 | 82.98 | 3.41 | 393.91 |
|  |  | 68.85 | 93.01 | 0.66 | 563.52 |
| TB |  |  |  |  |  |
|  | 1 | 433.70 | 347.56 | 40.41 | 1,081.46 |
|  | 4 | 44.70 | 63.70 | 7.84 | 376.96 |
|  | 5 | 15.47 | 10.80 | 2.90 | 40.37 |
|  | 6 | 98.93 | 144.48 | 9.65 | 665.19 |
|  | 7 | 137.27 | 244.55 | 19.40 | 1,100.90 |
|  | 8 | 18.95 | 15.80 | 0.32 | 63.95 |
|  |  | 126.03 | 234.50 | 0.32 | 1,100.90 |

Table 2. Percent organic content (%) by station and overall during the project. Sample columns use crucible level data while other columns extrapolate measurements to the entire sample based on calculated proportions.

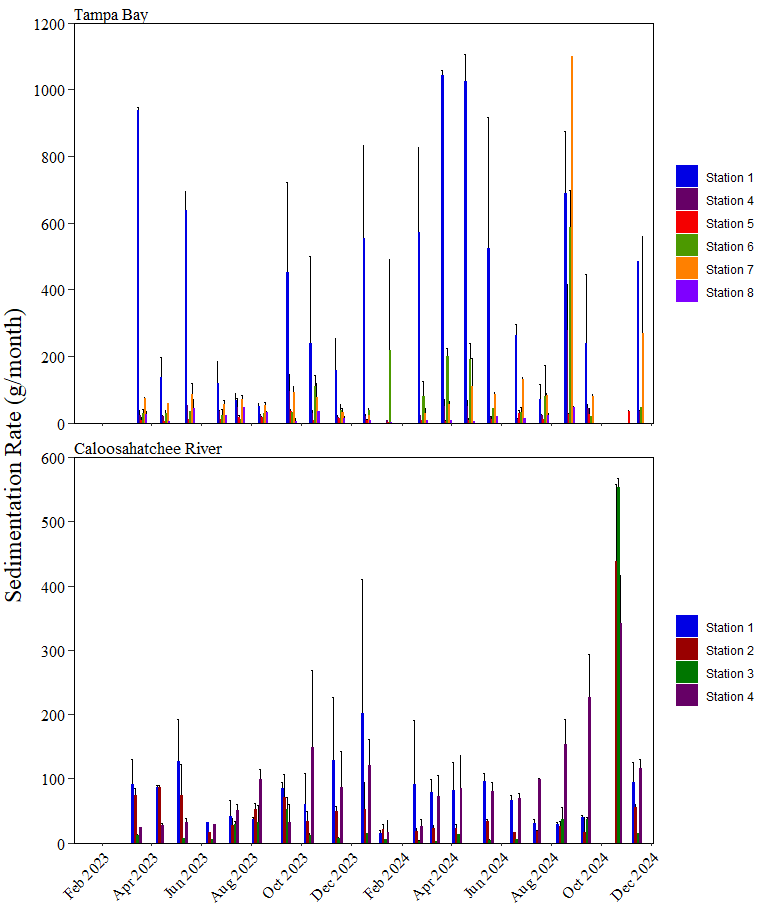
| **Estuary** | **Station** | **MeanPct** | **sdPct** | **MinPct** | **MaxPct** | **MeanSample** | **sdSample** | **MinSample** | **MaxSample** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CR |  |  |  |  |  |  |  |  |  |
|  | 1 | 19.28 | 21.52 | 0.00 | 97.11 | 65.62 | 25.18 | 2.54 | 99.28 |
|  | 2 | 14.18 | 15.84 | 0.00 | 54.78 | 45.23 | 29.67 | 0.98 | 94.80 |
|  | 3 | 12.94 | 9.78 | 2.11 | 32.13 | 33.40 | 26.83 | 4.44 | 97.21 |
|  | 4 | 13.58 | 13.32 | 0.00 | 44.00 | 65.35 | 22.97 | 0.00 | 95.25 |
|  |  | 15.01 | 15.84 | 0.00 | 97.11 | 52.75 | 29.38 | 0.00 | 99.28 |
| TB |  |  |  |  |  |  |  |  |  |
|  | 1 | 23.25 | 24.81 | 0.00 | 80.83 | 87.40 | 13.41 | 52.26 | 98.29 |
|  | 4 | 23.47 | 18.98 | 0.00 | 78.91 | 55.38 | 25.32 | 9.16 | 94.25 |
|  | 5 | 23.40 | 18.79 | 0.00 | 56.18 | 40.98 | 20.80 | 11.01 | 74.03 |
|  | 6 | 22.92 | 20.59 | 0.00 | 77.83 | 68.86 | 20.87 | 17.33 | 95.32 |
|  | 7 | 14.92 | 17.35 | 0.00 | 78.82 | 68.32 | 18.69 | 29.68 | 97.17 |
|  | 8 | 39.50 | 20.39 | 0.14 | 76.20 | 60.10 | 22.24 | 24.90 | 94.76 |
|  |  | 24.28 | 21.24 | 0.00 | 80.83 | 63.49 | 24.86 | 9.16 | 98.29 |

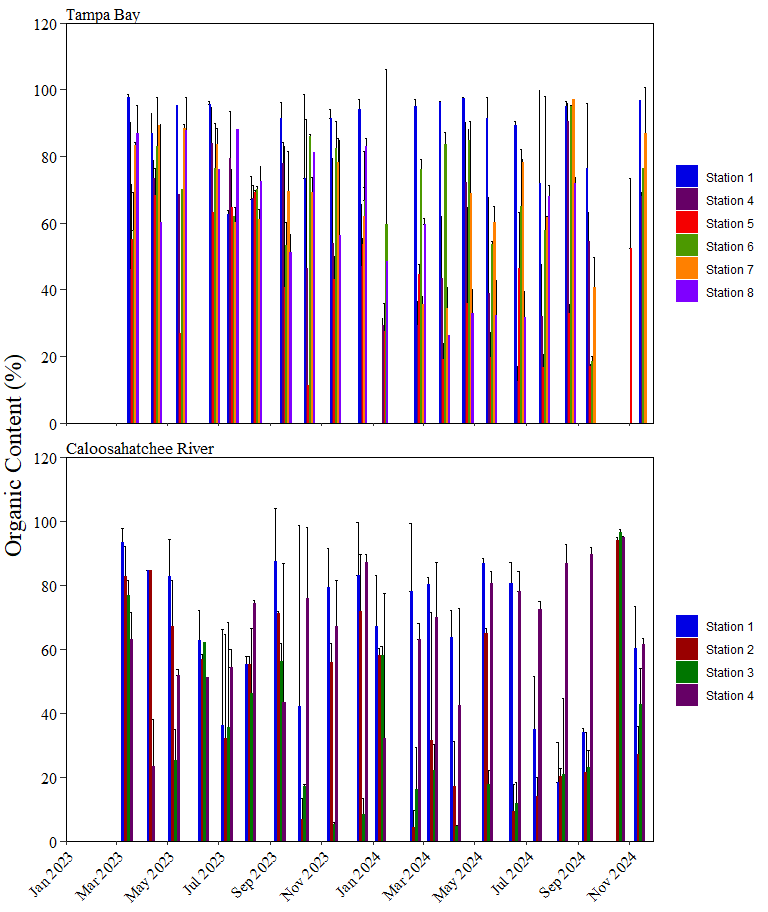
Table 3. Organic weight (g/day) of sediment by station and overall during the project. Sample columns use crucible level data while other columns extrapolate measurements to the entire sample based on calculated proportions. Values are standardized to 28-day months.

| **Estuary** | **Station** | **MeanWt** | **sdWt** | **MinWt** | **MaxWt** | **MeanSample** | **sdSample** | **MinSample** | **MaxSample** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CR |  |  |  |  |  |  |  |  |  |
|  | 1 | 14.73 | 23.15 | 0.00 | 95.72 | 58.67 | 61.95 | 0.64 | 330.87 |
|  | 2 | 6.90 | 12.75 | 0.00 | 59.26 | 40.42 | 89.61 | 0.08 | 495.49 |
|  | 3 | 3.16 | 5.53 | 0.19 | 21.82 | 34.59 | 121.43 | 0.19 | 547.80 |
|  | 4 | 12.24 | 18.58 | 0.00 | 102.62 | 73.63 | 81.28 | 0.00 | 374.33 |
|  |  | 9.37 | 16.94 | 0.00 | 97.11 | 52.75 | 29.38 | 0.00 | 99.28 |
| TB |  |  |  |  |  |  |  |  |  |
|  | 1 | 102.46 | 191.97 | 0.00 | 825.86 | 408.79 | 343.06 | 21.12 | 1,055.90 |
|  | 4 | 8.55 | 9.96 | 0.00 | 51.63 | 32.33 | 60.87 | 1.21 | 355.28 |
|  | 5 | 3.10 | 3.44 | 0.00 | 18.38 | 6.68 | 6.58 | 0.62 | 28.50 |
|  | 6 | 16.67 | 24.09 | 0.00 | 100.21 | 83.43 | 138.25 | 3.19 | 634.09 |
|  | 7 | 11.22 | 13.30 | 0.00 | 48.09 | 114.64 | 242.29 | 6.60 | 1,067.76 |
|  | 8 | 7.19 | 9.38 | 0.02 | 38.18 | 13.41 | 14.35 | 0.18 | 60.60 |
|  |  | 25.05 | 86.28 | 0.00 | 80.83 | 63.49 | 24.86 | 9.16 | 98.29 |

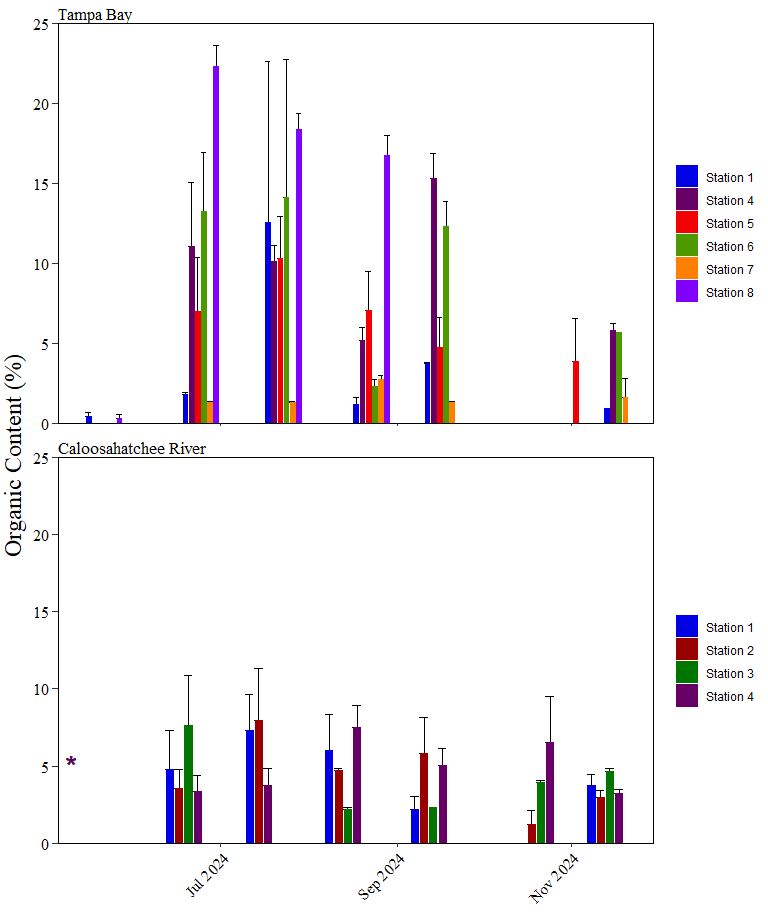
Table 4. Minimum and maximum sedimentation rates, percent organic content, and organic weight per station and the Month and Year in which the minimum or maximum occurred.

| **Measure** | **Estuary** | **Station** | **Type** | **Year** | **Month** | **Value** |
| --- | --- | --- | --- | --- | --- | --- |
| Organic Weight | CR | 1 | Min Percent | 2024 | 09 | 0.84 |
| Max Percent | 2024 | 11 | 3.39 |
| 2 | Min Percent | 2024 | 06 | 0.56 |
| Max Percent | 2024 | 10 | 5.93 |
| 3 | Min Percent | 2024 | 06 | 0.41 |
| Max Percent | 2024 | 10 | 21.62 |
| 4 | Min Percent | 2024 | 06 | 2.37 |
| Max Percent | 2024 | 10 | 21.11 |
| TB | 1 | Min Percent | 2024 | 05 | 2.57 |
| Max Percent | 2024 | 07 | 11.32 |
| 4 | Min Percent | 2024 | 05 | 0.00 |
| Max Percent | 2024 | 08 | 14.97 |
| 5 | Min Percent | 2024 | 05 | 0.00 |
| Max Percent | 2024 | 06 | 1.90 |
| 6 | Min Percent | 2024 | 05 | 0.00 |
| Max Percent | 2024 | 08 | 13.77 |
| 7 | Min Percent | 2024 | 05 | 0.00 |
| Max Percent | 2024 | 08 | 29.78 |
| 8 | Min Percent | 2024 | 05 | 0.06 |
| Max Percent | 2024 | 08 | 7.73 |
| Percent Organic | CR | 1 | Min Percent | 2024 | 09 | 2.16 |
| Max Percent | 2024 | 07 | 7.33 |
| 2 | Min Percent | 2024 | 10 | 1.23 |
| Max Percent | 2024 | 07 | 7.94 |
| 3 | Min Percent | 2024 | 08 | 2.20 |
| Max Percent | 2024 | 06 | 7.64 |
| 4 | Min Percent | 2024 | 11 | 3.25 |
| Max Percent | 2024 | 08 | 7.49 |
| TB | 1 | Min Percent | 2024 | 05 | 0.39 |
| Max Percent | 2024 | 07 | 12.56 |
| 4 | Min Percent | 2024 | 05 | 0.00 |
| Max Percent | 2024 | 09 | 15.29 |
| 5 | Min Percent | 2024 | 05 | 0.00 |
| Max Percent | 2024 | 07 | 10.30 |
| 6 | Min Percent | 2024 | 05 | 0.00 |
| Max Percent | 2024 | 07 | 14.12 |
| 7 | Min Percent | 2024 | 05 | 0.00 |
| Max Percent | 2024 | 08 | 2.71 |
| 8 | Min Percent | 2024 | 05 | 0.30 |
| Max Percent | 2024 | 06 | 22.27 |
| Sedimentation | CR | 1 | Min Rate | 2024 | 01 | 15.49 |
| Max Rate | 2023 | 12 | 202.14 |
| 2 | Min Rate | 2024 | 06 | 15.94 |
| Max Rate | 2024 | 10 | 438.89 |
| 3 | Min Rate | 2024 | 03 | 2.85 |
| Max Rate | 2024 | 10 | 553.50 |
| 4 | Min Rate | 2024 | 01 | 16.56 |
| Max Rate | 2024 | 10 | 341.23 |
| TB | 1 | Min Rate | 2023 | 08 | 49.52 |
| Max Rate | 2024 | 03 | 1,041.99 |
| 4 | Min Rate | 2024 | 01 | 8.07 |
| Max Rate | 2024 | 08 | 278.98 |
| 5 | Min Rate | 2024 | 01 | 3.11 |
| Max Rate | 2023 | 09 | 35.33 |
| 6 | Min Rate | 2023 | 07 | 11.11 |
| Max Rate | 2024 | 08 | 586.78 |
| 7 | Min Rate | 2023 | 12 | 23.13 |
| Max Rate | 2024 | 08 | 1,099.68 |
| 8 | Min Rate | 2024 | 01 | 2.43 |
| Max Rate | 2023 | 07 | 46.95 |





**Figure 2.** Monthly organic content (%) of sediment at stations in Tampa Bay and Caloosahatchee River. Values are based on crucible samples. Asterisks indicate when no samples were collected from a station.



**Figure 3.** Monthly organic content (%) of sediment at stations in Tampa Bay and Caloosahatchee River. Values are extrapolated to the entire samples. Asterisks indicate when no samples were collected from a station.

Table 5. Analysis of sedimentation rates (g/month) by estuary and station. Permutation ANOVA using 10,000 permutations.

| **Factors** | **df** | **SS** | **MS** | **F** | **Pr** |
| --- | --- | --- | --- | --- | --- |
| Estuary | 1 | 1.57 | 1.57 | 11.72 | 0.001 |
| Station\_code | 8 | 29.56 | 3.70 | 27.55 | 0.000 |
| Residuals | 187 | 25.08 | 0.13 |  |  |

Table 6. Mean sedimentation rates (g/month) per estuary. Letters are determined based on pairwise permutation two-sample independence analysis.

| **Estuary** | **n** | **mean** | **sd** | **lower** | **upper** | **Letters** |
| --- | --- | --- | --- | --- | --- | --- |
| CR | 81 | 68.22 | 88.31 | -20.09 | 156.52 | a |
| TB | 116 | 123.06 | 223.64 | -100.57 | 346.70 | a |

Table 7. Pairwise two-sample permutation post-hoc comparisons of sedimentation rates (g/month) per estuary.

| **Comparison** | **Stat** | **p.value** | **p.adjust** |
| --- | --- | --- | --- |
| CR - TB = 0 | -0.6052 | 0.545 | 0.545 |

Table 8. Mean sedimentation rates (g/month) per station. Letters are determined based on pairwise permutation two-sample independence analysis.

| **Station\_code** | **n** | **mean** | **sd** | **lower** | **upper** | **Letters** |
| --- | --- | --- | --- | --- | --- | --- |
| CR1 | 20 | 75.85 | 44.15 | 31.70 | 120.01 | a |
| CR2 | 21 | 58.46 | 90.02 | -31.56 | 148.47 | b |
| CR3 | 19 | 44.49 | 124.06 | -79.57 | 168.55 | c |
| CR4 | 21 | 92.17 | 78.03 | 14.14 | 170.21 | a |
| TB1 | 19 | 435.04 | 325.10 | 109.94 | 760.14 | d |
| TB4 | 20 | 44.89 | 58.51 | -13.62 | 103.39 | b |
| TB5 | 20 | 15.06 | 9.77 | 5.29 | 24.83 | c |
| TB6 | 20 | 93.80 | 132.20 | -38.40 | 226.00 | ab |
| TB7 | 19 | 135.25 | 239.38 | -104.13 | 374.62 | a |
| TB8 | 18 | 20.27 | 15.32 | 4.95 | 35.60 | c |

Table 9. Pairwise two-sample permutation post-hoc comparisons of sedimentation rates (g/month) per station.

| **Comparison** | **Stat** | **p.value** | **p.adjust** |
| --- | --- | --- | --- |
| CR1 - CR2 = 0 | 2.192 | 0.03 | 0.04 |
| CR1 - CR3 = 0 | 3.845 | 0.00 | 0.00 |
| CR1 - CR4 = 0 | -0.2791 | 0.78 | 0.80 |
| CR1 - TB4 = 0 | 2.901 | 0.00 | 0.01 |
| CR1 - TB1 = 0 | -4.347 | 0.00 | 0.00 |
| CR1 - TB5 = 0 | 4.987 | 0.00 | 0.00 |
| CR1 - TB6 = 0 | 0.6286 | 0.53 | 0.57 |
| CR1 - TB7 = 0 | -0.9909 | 0.32 | 0.39 |
| CR1 - TB8 = 0 | 4.282 | 0.00 | 0.00 |
| CR2 - CR3 = 0 | 2.733 | 0.01 | 0.01 |
| CR2 - CR4 = 0 | -2.223 | 0.03 | 0.04 |
| CR2 - TB4 = 0 | 0.8161 | 0.41 | 0.49 |
| CR2 - TB1 = 0 | -4.821 | 0.00 | 0.00 |
| CR2 - TB5 = 0 | 3.887 | 0.00 | 0.00 |
| CR2 - TB6 = 0 | -1.268 | 0.20 | 0.26 |
| CR2 - TB7 = 0 | -2.662 | 0.01 | 0.01 |
| CR2 - TB8 = 0 | 3.068 | 0.00 | 0.00 |
| CR3 - CR4 = 0 | -3.833 | 0.00 | 0.00 |
| CR3 - TB4 = 0 | -2.233 | 0.03 | 0.04 |
| CR3 - TB1 = 0 | -4.994 | 0.00 | 0.00 |
| CR3 - TB5 = 0 | 0.4221 | 0.67 | 0.70 |
| CR3 - TB6 = 0 | -3.235 | 0.00 | 0.00 |
| CR3 - TB7 = 0 | -3.935 | 0.00 | 0.00 |
| CR3 - TB8 = 0 | -0.07882 | 0.94 | 0.94 |
| CR4 - TB4 = 0 | 2.852 | 0.00 | 0.01 |
| CR4 - TB1 = 0 | -4.099 | 0.00 | 0.00 |
| CR4 - TB5 = 0 | 4.828 | 0.00 | 0.00 |
| CR4 - TB6 = 0 | 0.8056 | 0.42 | 0.49 |
| CR4 - TB7 = 0 | -0.6625 | 0.51 | 0.57 |
| CR4 - TB8 = 0 | 4.182 | 0.00 | 0.00 |
| TB4 - TB1 = 0 | -4.952 | 0.00 | 0.00 |
| TB4 - TB5 = 0 | 3.416 | 0.00 | 0.00 |
| TB4 - TB6 = 0 | -1.918 | 0.06 | 0.07 |
| TB4 - TB7 = 0 | -3.197 | 0.00 | 0.00 |
| TB4 - TB8 = 0 | 2.54 | 0.01 | 0.02 |
| TB1 - TB5 = 0 | 5.526 | 0.00 | 0.00 |
| TB1 - TB6 = 0 | 4.158 | 0.00 | 0.00 |
| TB1 - TB7 = 0 | 3.672 | 0.00 | 0.00 |
| TB1 - TB8 = 0 | 5.161 | 0.00 | 0.00 |
| TB5 - TB6 = 0 | -4.183 | 0.00 | 0.00 |
| TB5 - TB7 = 0 | -4.864 | 0.00 | 0.00 |
| TB5 - TB8 = 0 | -0.6397 | 0.52 | 0.57 |
| TB6 - TB7 = 0 | -1.339 | 0.18 | 0.23 |
| TB6 - TB8 = 0 | 3.521 | 0.00 | 0.00 |
| TB7 - TB8 = 0 | 4.268 | 0.00 | 0.00 |

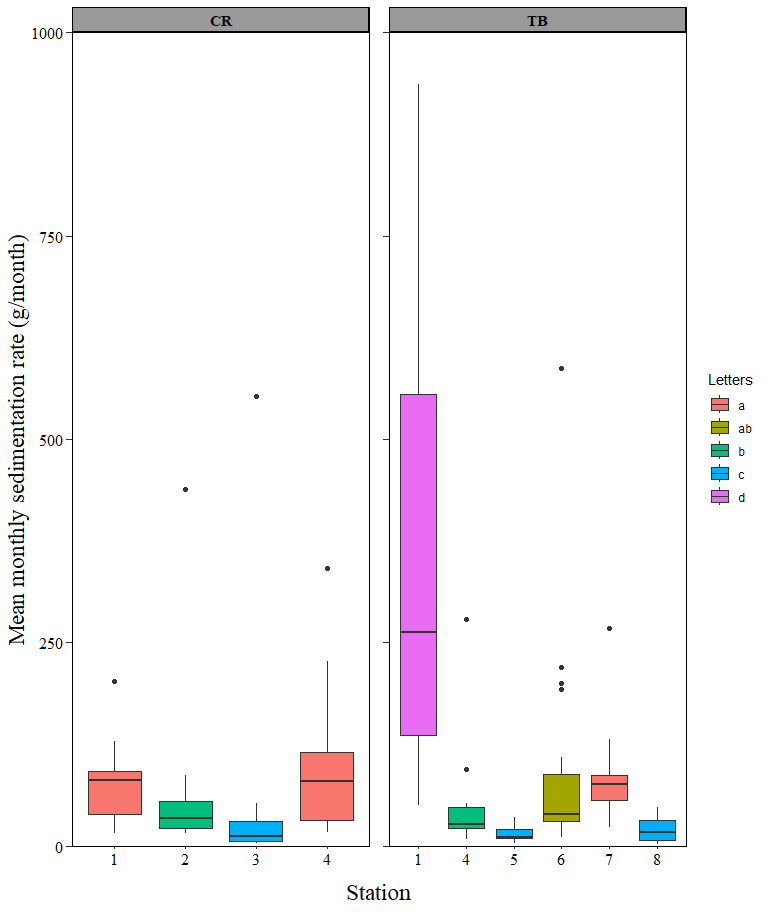


Table 10. Analysis of organic content (%) of crucible samples by estuary and station. Permutation ANOVA using 10,000 permutations.

| **Factors** | **df** | **SS** | **MS** | **F** | **Pr** |
| --- | --- | --- | --- | --- | --- |
| Estuary | 1 | 1,921.69 | 1,921.69 | 4.43 | 0.037 |
| Station\_code | 8 | 38,329.00 | 4,791.12 | 11.05 | 0.000 |
| Residuals | 187 | 81,059.89 | 433.48 |  |  |

Table 11. Mean organic content (%) of crucible samples per estuary. Letters are determined based on pairwise permutation two-sample independence analysis.

| **Estuary** | **n** | **mean** | **sd** | **lower** | **upper** | **Letters** |
| --- | --- | --- | --- | --- | --- | --- |
| CR | 81 | 52.8 | 27.15 | 25.65 | 79.95 | a |
| TB | 116 | 63.7 | 22.92 | 40.78 | 86.62 | b |

Table 12. Pairwise two-sample permutation post-hoc comparisons of organic content (%) in crucible samples per estuary.

| **Comparison** | **Stat** | **p.value** | **p.adjust** |
| --- | --- | --- | --- |
| CR - TB = 0 | -2.982 | 0.003 | 0.003 |

Table 13. Mean organic content (%) in crucible samples per station. Letters are determined based on pairwise permutation two-sample independence analysis.

| **Station\_code** | **n** | **mean** | **sd** | **lower** | **upper** | **Letters** |
| --- | --- | --- | --- | --- | --- | --- |
| CR1 | 20 | 65.62 | 21.93 | 43.69 | 87.55 | a |
| CR2 | 21 | 45.23 | 28.37 | 16.86 | 73.59 | bc |
| CR3 | 19 | 34.16 | 25.85 | 8.31 | 60.01 | b |
| CR4 | 21 | 65.02 | 19.35 | 45.67 | 84.36 | a |
| TB1 | 19 | 87.65 | 11.30 | 76.35 | 98.96 | d |
| TB4 | 20 | 55.70 | 21.29 | 34.41 | 77.00 | ac |
| TB5 | 20 | 40.44 | 18.58 | 21.86 | 59.03 | b |
| TB6 | 20 | 68.91 | 16.89 | 52.02 | 85.79 | a |
| TB7 | 19 | 68.87 | 18.14 | 50.73 | 87.02 | a |
| TB8 | 18 | 61.91 | 21.00 | 40.91 | 82.90 | ac |

Table 14. Pairwise two-sample permutation post-hoc comparisons of organic content (%) in crucible samples per station.

| **Comparison** | **Stat** | **p.value** | **p.adjust** |
| --- | --- | --- | --- |
| CR1 - CR2 = 0 | 2.404 | 0.02 | 0.03 |
| CR1 - CR3 = 0 | 3.448 | 0.00 | 0.00 |
| CR1 - CR4 = 0 | 0.09439 | 0.92 | 0.95 |
| CR1 - TB4 = 0 | 1.43 | 0.15 | 0.23 |
| CR1 - TB1 = 0 | -3.335 | 0.00 | 0.00 |
| CR1 - TB5 = 0 | 3.349 | 0.00 | 0.00 |
| CR1 - TB6 = 0 | -0.5367 | 0.59 | 0.65 |
| CR1 - TB7 = 0 | -0.509 | 0.61 | 0.65 |
| CR1 - TB8 = 0 | 0.5363 | 0.59 | 0.65 |
| CR2 - CR3 = 0 | 1.274 | 0.20 | 0.28 |
| CR2 - CR4 = 0 | -2.467 | 0.01 | 0.03 |
| CR2 - TB4 = 0 | -1.32 | 0.19 | 0.27 |
| CR2 - TB1 = 0 | -4.389 | 0.00 | 0.00 |
| CR2 - TB5 = 0 | 0.6398 | 0.52 | 0.60 |
| CR2 - TB6 = 0 | -2.904 | 0.00 | 0.01 |
| CR2 - TB7 = 0 | -2.808 | 0.00 | 0.01 |
| CR2 - TB8 = 0 | -1.975 | 0.05 | 0.08 |
| CR3 - CR4 = 0 | -3.573 | 0.00 | 0.00 |
| CR3 - TB4 = 0 | -2.613 | 0.01 | 0.02 |
| CR3 - TB1 = 0 | -4.922 | 0.00 | 0.00 |
| CR3 - TB5 = 0 | -0.8775 | 0.38 | 0.48 |
| CR3 - TB6 = 0 | -3.912 | 0.00 | 0.00 |
| CR3 - TB7 = 0 | -3.796 | 0.00 | 0.00 |
| CR3 - TB8 = 0 | -3.101 | 0.00 | 0.00 |
| CR4 - TB4 = 0 | 1.446 | 0.15 | 0.23 |
| CR4 - TB1 = 0 | -3.658 | 0.00 | 0.00 |
| CR4 - TB5 = 0 | 3.497 | 0.00 | 0.00 |
| CR4 - TB6 = 0 | -0.6894 | 0.49 | 0.60 |
| CR4 - TB7 = 0 | -0.6535 | 0.51 | 0.60 |
| CR4 - TB8 = 0 | 0.4857 | 0.63 | 0.66 |
| TB4 - TB1 = 0 | -4.256 | 0.00 | 0.00 |
| TB4 - TB5 = 0 | 2.278 | 0.02 | 0.04 |
| TB4 - TB6 = 0 | -2.076 | 0.04 | 0.07 |
| TB4 - TB7 = 0 | -1.989 | 0.05 | 0.08 |
| TB4 - TB8 = 0 | -0.9048 | 0.37 | 0.47 |
| TB1 - TB5 = 0 | 5.195 | 0.00 | 0.00 |
| TB1 - TB6 = 0 | 3.417 | 0.00 | 0.00 |
| TB1 - TB7 = 0 | 3.272 | 0.00 | 0.00 |
| TB1 - TB8 = 0 | 3.722 | 0.00 | 0.00 |
| TB5 - TB6 = 0 | -3.967 | 0.00 | 0.00 |
| TB5 - TB7 = 0 | -3.834 | 0.00 | 0.00 |
| TB5 - TB8 = 0 | -2.961 | 0.00 | 0.01 |
| TB6 - TB7 = 0 | 0.006043 | 1.00 | 1.00 |
| TB6 - TB8 = 0 | 1.133 | 0.26 | 0.35 |
| TB7 - TB8 = 0 | 1.079 | 0.28 | 0.37 |

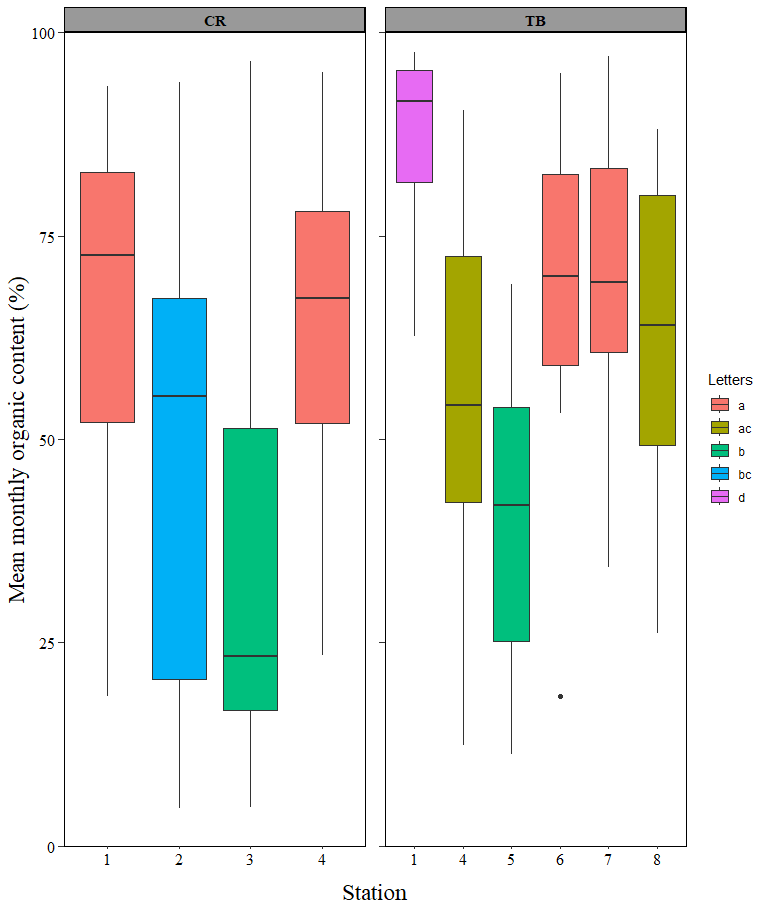


Table 15. Analysis of organic content (%) extrapolated to entire samples by estuary and station. Accurate proportion calculations began in April 2024 Permutation ANOVA using 10,000 permutations.

| **Factors** | **df** | **SS** | **MS** | **F** | **Pr** |
| --- | --- | --- | --- | --- | --- |
| Estuary | 1 | 133.76 | 133.76 | 7.14 | 0.010 |
| Station\_code | 8 | 496.96 | 62.12 | 3.32 | 0.004 |
| Residuals | 46 | 861.18 | 18.72 |  |  |

Table 16. Mean organic content (%) extrapolated to entire samples per estuary. Letters are determined based on pairwise permutation two-sample independence analysis.

| **Estuary** | **n** | **mean** | **sd** | **lower** | **upper** | **Letters** |
| --- | --- | --- | --- | --- | --- | --- |
| CR | 22 | 4.56 | 1.96 | 2.59 | 6.52 | a |
| TB | 34 | 6.31 | 6.22 | 0.09 | 12.53 | a |

Table 17. Pairwise two-sample permutation post-hoc comparisons of organic content (%) extrapolated to entire samples per estuary.

| **Comparison** | **Stat** | **p.value** | **p.adjust** |
| --- | --- | --- | --- |
| CR - TB = 0 | -1.27 | 0.204 | 0.204 |

Table 18. Mean organic content (%) extrapolated to entire samples per station. Letters are determined based on pairwise permutation two-sample independence analysis.

| **Station\_code** | **n** | **mean** | **sd** | **lower** | **upper** | **Letters** |
| --- | --- | --- | --- | --- | --- | --- |
| CR1 | 5 | 4.79 | 2.00 | 2.79 | 6.78 | a |
| CR2 | 6 | 4.37 | 2.35 | 2.02 | 6.71 | a |
| CR3 | 5 | 4.13 | 2.22 | 1.91 | 6.35 | a |
| CR4 | 6 | 4.90 | 1.77 | 3.13 | 6.68 | a |
| TB1 | 6 | 3.42 | 4.62 | -1.20 | 8.05 | a |
| TB4 | 6 | 7.90 | 5.36 | 2.54 | 13.26 | a |
| TB5 | 6 | 5.49 | 3.49 | 2.00 | 8.98 | a |
| TB6 | 6 | 7.94 | 6.08 | 1.86 | 14.02 | a |
| TB7 | 6 | 1.37 | 0.86 | 0.51 | 2.24 | a |
| TB8 | 4 | 14.43 | 9.70 | 4.73 | 24.13 | a |

Table 19. Pairwise two-sample permutation post-hoc comparisons of organic content (%) extrapolated to entire samples per station.

| **Comparison** | **Stat** | **p.value** | **p.adjust** |
| --- | --- | --- | --- |
| CR1 - CR2 = 0 | 0.333 | 0.74 | 0.80 |
| CR1 - CR3 = 0 | 0.5148 | 0.61 | 0.76 |
| CR1 - CR4 = 0 | -0.1062 | 0.92 | 0.94 |
| CR1 - TB4 = 0 | -1.191 | 0.23 | 0.44 |
| CR1 - TB1 = 0 | 0.6304 | 0.53 | 0.68 |
| CR1 - TB5 = 0 | -0.4156 | 0.68 | 0.78 |
| CR1 - TB6 = 0 | -1.09 | 0.28 | 0.48 |
| CR1 - TB7 = 0 | 2.486 | 0.01 | 0.19 |
| CR1 - TB8 = 0 | -1.809 | 0.07 | 0.23 |
| CR2 - CR3 = 0 | 0.1782 | 0.86 | 0.90 |
| CR2 - CR4 = 0 | -0.4647 | 0.64 | 0.76 |
| CR2 - TB4 = 0 | -1.405 | 0.16 | 0.41 |
| CR2 - TB1 = 0 | 0.4625 | 0.64 | 0.76 |
| CR2 - TB5 = 0 | -0.6737 | 0.50 | 0.67 |
| CR2 - TB6 = 0 | -1.297 | 0.19 | 0.41 |
| CR2 - TB7 = 0 | 2.256 | 0.02 | 0.19 |
| CR2 - TB8 = 0 | -1.989 | 0.05 | 0.21 |
| CR3 - CR4 = 0 | -0.6626 | 0.51 | 0.67 |
| CR3 - TB4 = 0 | -1.384 | 0.17 | 0.41 |
| CR3 - TB1 = 0 | 0.3268 | 0.74 | 0.80 |
| CR3 - TB5 = 0 | -0.7679 | 0.44 | 0.64 |
| CR3 - TB6 = 0 | -1.273 | 0.20 | 0.41 |
| CR3 - TB7 = 0 | 2.168 | 0.03 | 0.19 |
| CR3 - TB8 = 0 | -1.872 | 0.06 | 0.23 |
| CR4 - TB4 = 0 | -1.261 | 0.21 | 0.41 |
| CR4 - TB1 = 0 | 0.748 | 0.45 | 0.64 |
| CR4 - TB5 = 0 | -0.3842 | 0.70 | 0.79 |
| CR4 - TB6 = 0 | -1.155 | 0.25 | 0.45 |
| CR4 - TB7 = 0 | 2.69 | 0.01 | 0.19 |
| CR4 - TB8 = 0 | -1.949 | 0.05 | 0.21 |
| TB4 - TB1 = 0 | 1.459 | 0.14 | 0.41 |
| TB4 - TB5 = 0 | 0.9281 | 0.35 | 0.57 |
| TB4 - TB6 = 0 | -0.01288 | 0.99 | 0.99 |
| TB4 - TB7 = 0 | 2.26 | 0.02 | 0.19 |
| TB4 - TB8 = 0 | -1.32 | 0.19 | 0.41 |
| TB1 - TB5 = 0 | -0.8843 | 0.38 | 0.58 |
| TB1 - TB6 = 0 | -1.381 | 0.17 | 0.41 |
| TB1 - TB7 = 0 | 1.062 | 0.29 | 0.48 |
| TB1 - TB8 = 0 | -1.962 | 0.05 | 0.21 |
| TB5 - TB6 = 0 | -0.8656 | 0.39 | 0.58 |
| TB5 - TB7 = 0 | 2.201 | 0.03 | 0.19 |
| TB5 - TB8 = 0 | -1.795 | 0.07 | 0.23 |
| TB6 - TB7 = 0 | 2.115 | 0.03 | 0.19 |
| TB6 - TB8 = 0 | -1.265 | 0.21 | 0.41 |
| TB7 - TB8 = 0 | -2.301 | 0.02 | 0.19 |

