Supporting Information 13: Correlation Coefficients between carbon materials and salinity.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **DIC-Salinity** | | **DOC-Salinity** | | **POC-Salinity** | |
| **Section** | **Season** | **Surface** | **Bottom** | **Surface** | **Bottom** | **Surface** | **Bottom** |
| **A** | **Summer** | 0.94\*\* | 0.90\*\* | -1.00\*\* | -0.97\*\* | -0.92\*\* | -0.98\*\* |
| **Winter** | -0.99\*\* | -0.97\*\* | -0.97\*\* | -0.96\*\* | -0.96\*\* | -0.98\*\* |
| **B** | **Summer** | 0.88\* | 0.88\* | -1.00\*\* | -1.00\*\* | -0.93\*\* | -0.96\*\* |
| **Winter** | -0.81\* | -0.81\* | -0.99\*\* | -0.96\*\* | -0.98\*\* | -0.99\*\* |
| **C** | **Summer** | 0.98\*\* | 1.00\*\* | -0.98\*\* | -0.98\*\* | -0.91\*\* | -0.94\*\* |
| **Winter** | -0.83\* | -0.86\* | -0.98\*\* | -0.91\* | -0.98\*\* | -0.98\*\* |

\*\* p<0.01; \* p<0.05.