**Table S1.** Weighted means, standard deviation (SD) and variance inflation factor (VIF) of the explanatory variables in the CCA analysis

|  |  |  |  |
| --- | --- | --- | --- |
| Explanatory variable  | Mean | SD | VIF |
| Depth  | 3.693 | 3.168 | 1.91 |
| Water inundation  | 2.283 | 1.216 | 3.79 |
| Relative sediment content  | 0.909 | 0.737 | 4.11 |
| Seaweed availability  | 1.809 | 0.658 | 1.41 |
| Structural complexity  | 12.084 | 2.913 | 1.08 |

Cross-correlation analysis between explicative variables in the CCA. WI: water inundation; RSC: relative sediment content: SA: seaweed availability; SC: structural complexity

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Depth | WI | RSC | SA | SC |
| Depth | 1.00 | 0.56 | 0.62 | 0.50 | -0.26 |
| WI  | 0.56 | 1.00 | 0.85 | 0.44 | -0.22 |
| RSC  | 0.62 | 0.85 | 1.00 | 0.39 | -0.22 |
| SA  | 0.50 | 0.44 | 0.39 | 1.00 | -0.12 |
| SC  | -0.26 | -0.22 | -0.22 | -0.12 | 1.00 |