**Table S6:**

**Eigenvalues and Eigenvectors of the PCA to the environmental condition on the three morphotypes found.**

*Eigenvalues*

|  |  |  |  |
| --- | --- | --- | --- |
| PC | Eigenvalues | % Variation | Cumulative % Variation |
| 1 | 3.67 | 61.8 | 61.8 |
| 2 | 1.2 | 20.2 | 82 |

*Eigenvectors* (Coefficients in the linear combinations of variables making up PC’s)

|  |  |  |
| --- | --- | --- |
| Variable | PC1 | PC2 |
| Depth (m) | 0.484 | -0.157 |
| Salinity (psu) | -0.333 | -0.02 |
| Temperature (°C) | -0.122 | 0.872 |
| Dissolved Oxygen (ml/L) | -0.49 | -0.07 |
| Organic matter (%) | 0.439 | 0.442 |
| Sand (%) | -0.455 | 0.115 |