**Table S15**. Environmental data for each habitat during autumn. PW DIN, total concentration of NH4+, NO3-+NO2- in the pore water (μM). Percent dry weight of total nitrogen (N tot) and organic carbon (C org) in the sediment. Porosity, water content in sediment (%). Density, density of sediment. Chl *b*, concentration of sediment chlorophyll *b* (mg m-2). Echi, concentration of sediment echinenone (mg m-2). Fuco, concentration of sediment fucoxanthin (mg m-2). Ruppia, dry weight of *Ruppia* *maritima* (mg m-2).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Habitat | PW DIN | N tot | C org | Porosity | Density | Chl *b* | Echi | Fuco | Ruppia |
| Sand 1 | 38.80 | 0.10 | 0.92 | 0.76 | 1.31 | 2.70 | 0.00 | 20.89 | 0 |
| Sand 2 | 62.87 | 0.09 | 0.79 | 0.78 | 1.30 | 3.86 | 0.00 | 18.23 | 0 |
| Sand 3 | 54.21 | 0.09 | 0.82 | 0.76 | 1.31 | 3.86 | 0.00 | 17.46 | 0 |
| Sand 4 | 24.61 | 0.10 | 0.85 | 0.77 | 1.31 | 5.01 | 0.00 | 29.20 | 0 |
| Silt 1 | 213.46 | 0.39 | 3.38 | 0.67 | 0.93 | 2.68 | 0.00 | 13.81 | 0 |
| Silt 2 | 196.19 | 0.40 | 3.44 | 0.67 | 0.77 | 3.06 | 0.00 | 20.63 | 0 |
| Silt 3 | 154.88 | 0.34 | 2.89 | 0.72 | 0.92 | 2.30 | 0.00 | 6.99 | 0 |
| Silt 4 | 201.07 | 0.37 | 3.31 | 0.50 | 1.13 | 2.68 | 0.00 | 13.81 | 0 |
| Cyano 1 | 19.79 | 0.03 | 0.27 | 0.46 | 1.38 | 11.92 | 2.80 | 69.71 | 0 |
| Cyano 2 | 55.61 | 0.10 | 0.97 | 0.48 | 1.43 | 4.36 | 4.21 | 34.41 | 0 |
| Cyano 3 | 96.86 | 0.10 | 1.10 | 0.62 | 1.28 | 3.21 | 3.36 | 25.36 | 0 |
| Cyano 4 | 58.75 | 0.11 | 0.99 | 0.45 | 1.22 | 4.30 | 0.82 | 36.21 | 0 |
| Ruppia 1 | 13.34 | 0.11 | 0.80 | 0.42 | 1.44 | 3.96 | 0.00 | 22.73 | 0 |
| Ruppia 2 | 24.54 | 0.13 | 0.97 | 0.58 | 1.43 | 3.96 | 0.00 | 24.03 | 0 |
| Ruppia 3 | 22.30 | 0.13 | 0.95 | 0.37 | 1.45 | 5.18 | 0.00 | 15.87 | 0 |
| Ruppia 4 | 20.66 | 0.11 | 0.84 | 0.51 | 1.48 | 2.75 | 0.00 | 34.81 | 0 |