**Table S14**. Environmental data for each habitat during spring. 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 | 33.04 | 0.10 | 0.75 | 0.76 | 1.31 | 0.00 | 0.00 | 40.86 | 0 |
| Sand 2 | 20.30 | 0.09 | 0.69 | 0.78 | 1.30 | 0.00 | 0.00 | 35.86 | 0 |
| Sand 3 | 59.24 | 0.10 | 0.80 | 0.76 | 1.31 | 0.00 | 0.00 | 35.99 | 0 |
| Sand 4 | 37.25 | 0.10 | 0.83 | 0.77 | 1.31 | 0.00 | 0.00 | 37.57 | 0 |
| Silt 1 | 249.76 | 0.33 | 2.91 | 0.67 | 0.93 | 2.84 | 0.00 | 37.07 | 0 |
| Silt 2 | 202.47 | 0.31 | 2.75 | 0.67 | 0.77 | 2.84 | 0.00 | 18.80 | 0 |
| Silt 3 | 42.88 | 0.45 | 3.95 | 0.72 | 0.92 | 2.18 | 0.00 | 14.63 | 0 |
| Silt 4 | 72.15 | 0.34 | 3.00 | 0.50 | 1.13 | 3.49 | 0.00 | 34.38 | 0 |
| Cyano 1 | 35.79 | 0.11 | 1.31 | 0.46 | 1.38 | 6.63 | 0.00 | 26.14 | 0 |
| Cyano 2 | 67.66 | 0.08 | 0.85 | 0.48 | 1.43 | 3.01 | 0.00 | 23.95 | 0 |
| Cyano 3 | 111.36 | 0.15 | 1.45 | 0.62 | 1.28 | 4.40 | 0.00 | 38.48 | 0 |
| Cyano 4 | 105.63 | 0.21 | 1.70 | 0.45 | 1.22 | 12.48 | 0.00 | 15.99 | 0 |
| Ruppia 1 | 62.97 | 0.21 | 1.81 | 0.42 | 1.44 | 6.10 | 0.00 | 33.12 | 0 |
| Ruppia 2 | 97.28 | 0.20 | 1.75 | 0.58 | 1.43 | 12.59 | 0.00 | 39.33 | 0 |
| Ruppia 3 | 125.71 | 0.24 | 1.03 | 0.37 | 1.45 | 2.22 | 0.00 | 17.32 | 0 |
| Ruppia 4 | 401.03 | 0.23 | 1.98 | 0.51 | 1.48 | 3.49 | 0.00 | 42.70 | 0 |