**Supplementary material – Correlation between indices**

Table S1: Spearman correlations between tested indices.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Biom** | **S** | **Margalef index** | **H’** | **S’** | **λ** | **FRic** | **FDiv** | **FEve** | **FSpe** | **AMBI** | **TDI** | **mTDI** | **pTDI** | **mT** | **Abrasion** |
| **Biom** | 1 | 0.45\*\*\* | 0.46\*\*\* | -0.06\*\*\* | -0.40\*\*\* | -0.11\*\*\* | 0.25\*\*\* | -0.03 | -0.23\*\*\* | -0.05\*\* | 0.05\*\* | 0.03 | 0.09\*\*\* | 0.03 | 0.15\*\*\* | 0.09 |
| **S** |  | 1 | 1\*\*\* | 0.59\*\*\* | 0.07\*\*\* | 0.47\*\*\* | 0.70\*\*\* | -0.11\*\*\* | -0.04 | -0.06\* | 0.04 | 0.32\*\*\* | 0.30\*\*\* | 0.36\*\*\* | 0.26\*\*\* | 0.16 |
| **Margalef index** |  |  | 1 | 0.58\*\*\* | 0.07\*\*\* | 0.47\*\*\* | 0.71\*\*\* | -0.11\*\*\* | -0.03 | -0.06\* | 0.03 | 0.33\*\*\* | 0.31\*\*\* | 0.37\*\*\* | 0.26\*\*\* | 0.16 |
| **H’** |  |  |  | 1 | 0.79\*\*\* | 0.97\*\*\* | 0.38\*\*\* | -0.03 | 0.19\*\*\* | 0.03 | -0.08\*\* | 0.33\*\*\* | 0.25\*\*\* | 0.35\*\*\* | 0.13\*\*\* | 0.14 |
| **S’** |  |  |  |  | 1 | 0.86\*\*\* | 0.09\*\*\* | 0.01 | 0.27\*\*\* | 0.07\*\*\* | -0.10\*\*\* | 0.24\*\*\* | 0.14\*\*\* | 0.24\*\*\* | 0.02 | 0.07 |
| **λ** |  |  |  |  |  | 1 | 0.31\*\*\* | -0.04 | 0.17\*\*\* | 0.04 | -0.08\*\* | 0.28\*\* | 0.20\*\*\* | 0.29\*\*\* | 0.08\*\*\* | 0.13 |
| **FRic** |  |  |  |  |  |  | 1 | -0.01 | 0.04 | 0.25\*\*\* | 0.01 | 0.27\*\* | 0.25\*\*\* | 0.34\*\*\* | 0.22\*\*\* | -0.02 |
| **FDiv** |  |  |  |  |  |  |  | 1 | 0.26\*\*\* | 0.75\*\*\* | -0.13\*\*\* | 0.03 | 0 | 0.07\* | -0.04 | -0.16 |
| **FEve** |  |  |  |  |  |  |  |  | 1 | 0.21\*\*\* | -0.07\*\* | 0.16\*\*\* | 0.13\*\*\* | 0.21\*\*\* | 0.08\*\* | -0.07 |
| **FSpe** |  |  |  |  |  |  |  |  |  | 1 | -0.24\*\*\* | -0.04 | -0.08\*\*\* | 0.02 | -0.12\*\*\* | -0.13 |
| **AMBI** |  |  |  |  |  |  |  |  |  |  | 1 | -0.05 | 0 | -0.07\*\* | 0.05\* | -0.15 |
| **TDI** |  |  |  |  |  |  |  |  |  |  |  | 1 | 0.96\*\*\* | 0.96\*\*\* | 0.84\*\*\* | -0.30 |
| **mTDI** |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 0.91\*\*\* | 0.93\*\*\* | -0.27 |
| **pTDI** |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 0.78\*\*\* | -0.27 |
| **mT** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | -0.24 |

Biom = Community Biomass. S = Species richness. H’ = Shannon index, S’= Pielou index. λ = Simpson index. \* indicates that P<0.05 ; \*\* indicates that P<0.01 ; \*\*\* indicates that P<0.001. Grey shading indicates best correlations