Statistical correlations between the explanatory variables, assessed using Spearman’s rank correlation coefficient (rs). Statistically significant correlations (p < 0.05) shown, highly statistically significant dependences (p < 0.001 and S < -0.7 or > 0.7) bolded.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Water****temperature** | **pH** | **Salinity** | **Total****phosphorus** | **Total****nitrogen** | **Dissolved****Oxygen** | **Silicon** | **Air****temperature** | **Precipitation** | **Latitude** | **Longitude** | **Exposition** |
| **Water****temperature** |  | 0.42 |  - | 0.33 |  - |  - | -0.50 | 0.58 |  - | -0.66 |  - | -0.49 |
| **pH** |  |  | 0.57 | 0.38 |  - |  - | **-0.82** | **0.71** | -0.42 | **-0.82** |  - | -0.55 |
| **Salinity** |  |  |  | 0.66 |  - |  - | -0.54 | 0.39 |  - | -0.63 | -0.57 |  - |
| **Total****phosphorus** |  |  |  |  |  - |  - | -0.36 | 0.36 |  - | -0.49 | -0.39 |  - |
| **Total****nitrogen** |  |  |  |  |  |  - |  - |  - |  - |  - |  - |  - |
| **Dissolved****oxygen** |  |  |  |  |  |  |  - |  - |  - |  - |  - |  - |
| **Silicon** |  |  |  |  |  |  |  | **-0.76** | 0.37 | **0.83** |  - | 0.54 |
| **Air****temperature** |  |  |  |  |  |  |  |  |  - | **0.83** |  - | -0.54 |
| **Precipitation** |  |  |  |  |  |  |  |  |  | 0.36 |  - | 0.42 |
| **Latitude** |  |  |  |  |  |  |  |  |  |  |  - | 0.54 |
| **Longitude** |  |  |  |  |  |  |  |  |  |  |  |  - |
| **Exposition** |  |  |  |  |  |  |  |  |  |  |  |  |