Table 2: Results from adonis relating environmental variables and different components of phylogenetic beta diversity.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Total | | | Turnover | | Nestedness | |
|  | Df | R2 | p-value | R2 | p-value | R2 | p-value |
| Turbidity | 1 | 0.04122 | 0.265 | 0.07972 | 0.061 | -0.00169 | 0.869 |
| pH | 1 | **0.11142** | **0.004** | **0.10489** | **0.03** | **0.16215** | **0.04** |
| Conductivity | 1 | 0.06094 | 0.092 | 0.08256 | 0.053 | 0.02187 | 0.436 |
| Dissolved O2 | 1 | 0.03452 | 0.395 | 0.05591 | 0.148 | -0.01541 | 0.973 |
| Altitude | 1 | 0.0672 | 0.074 | 0.04794 | 0.202 | 0.11249 | 0.08 |
| Temperature | 1 | 0.03723 | 0.334 | 0.05076 | 0.202 | 0.01435 | 0.528 |
| Depth | 1 | 0.04771 | 0.182 | 0.07644 | 0.073 | -0.01281 | 0.963 |
| Water velocity | 1 | 0.06314 | 0.087 | **0.10219** | **0.03** | 0.00637 | 0.692 |
| Basin | 1 | 0.051 | 0.15 | 0.08362 | 0.05 | -0.00242 | 0.867 |
| Residual | 10 | 0.32175 |  | 0.28027 |  | 0.26715 |  |