

Supplementary Table 4. Results of Non-metric multidimensional distance scaling (NMDS) analysis of the Unifrac distance indices of the ciliate community at OTU level with environmental parameters (DIC = dissolved inorganic carbon, DOC = dissolved organic carbon, EC = conductivity, N-NO₃⁻ = nitrates, O₂ = oxygen saturation, pH, P-PO₄³⁻ = phosphates, T = temperature, TN = total nitrogen). Statistically significant results (p<0.05) are reported in bold.

	NMDS1	NMDS2	R ²	<i>p</i>
pH	0.280	-0.960	0.363	0.002
EC	0.674	0.738	0.120	0.098
O ₂	0.135	-0.991	0.204	0.013
T	0.224	-0.975	0.408	0.001
N-NO ₃ ⁻	0.125	-0.992	0.320	0.003
P-PO ₄ ³⁻	-0.590	0.808	0.098	0.146
TN	0.135	-0.991	0.317	0.003
DOC	0.263	-0.965	0.249	0.006
DIC	-0.999	-0.033	0.140	0.062