

**Table S3.** Pearson correlation coefficients calculated among biotic and abiotic parameters. The highly significant relationships ( $P < 0.01$ ) are reported in bold.

	Positive relations with			Negative relations with		
	Stat 1, 3, 4 (n=56)	Stat 2 (n=8)	Stat 5 and 6 (n=15)	Stat 1, 3, 4 (n=56)	Stat 2 (n=8)	Stat 5 and 6 (n=15)
Tot Phytopl.	NO3, TN, Chl, POC, PN	Chl, Dinofl	pH	Transp, S	Het. Bacteria	
Diatoms	T, pH, C/N	pH, POC, C/N	pH	S, DO	DO	
Dinofl. Others	NO3, TN, Chl, POC, PN	Chl, Phaeo, Tot Phytopl	TSM, NO2	Transp, S	T, Het. Bacteria LAP	NH4 Chl
Chl-a	POC, PN, TN, NO3, Tot Phytopl, Dinofl	Tot Phytopl, Dinofl, Phaeo	pH, NO3, POC, PN	Transp, S	Het. Bacteria	S
Phaeo	POC, PN, T, pH, NO3, Het. Bacteria, Dinofl		C/N	TP, NH4	T, Het. Bacteria	DO
Heter. bacteria	PO4, Phaeo	T, Transp	TSM			
LAP	T, Transp, TN, NH4, NO3, GLU, DO, pH	TN, AP	TN, GLU	S,TP	Transp, Others	Transp
GLU	TN, NO3		POC, PN, C/N, NH4, NO3, TN	S	Transp	S, Transp
AP	TN, NO3, LAP, GLU, T, pH	TN, LAP, pH	LAP, GLU, T, pH, NO3, TN	S,TP	S	Transp
T	pH, C/N, LAP, AP, Diatoms	Transp	pH	DO, TP, NO2		DO

S	TSM		Transp	pH, TP, NH4, NO3, TN, POC, PN, Chl	pH, NO3, TN	pH, NO3, TN, POC, PN
Transp		T	S	POC, PN, Chl, TSM, PO4	DO	NO3, TN, POC, PN
DO				T, C/N	Transp, POC, C/N	T
pH	T, TN, C/N		T, NO3	S, TP	S	S
PO4	TP, NO2			Transp		
TP	TN, NO2, PO4	NO2		T, S, pH		
NH4	TN	NO3, NO2, TN	TN	S, TSM		
NO2	NO3, POC, TP, PO4	TP, NO3		T		C/N
NO3	TN, POC, PN, Chl	NH4, NO2, TN	pH, TN, POC, PN	S, C/N	S	S
TN	TP, pH, NH4, NO3, POC, PN, Chl	NH4, NO3	POC, PN	S, C/N	S	S, Transp
TSM				Transp, NH4		
POC	NO3, TN, PN	PN	PN	S, Transp	DO	S, Transp
PN	NO2, NO3, TN, POC	POC	POC	S, Transp		S, Transp
C/N	T, pH	POC		DO, NO3, TN	DO	