

**Table S1.** List of all samples and corresponding environmental factors.

Sample Date	Temperature	Salinity	PO ₄ ³⁻	NO ₃ ⁻	NO ₂ ⁻	NH ₄ ⁺	SiO ₃ ²⁻	PH	Chlorophyll-A
03 December 2021	12.0	NA	NA	NA	NA	NA	NA	NA	NA
08 December 2021	11.9	29.3	5.05	65.40	7.47	48.49	17.37	8.46	0.954
11 December 2021	11.0	28.2	3.78	63.74	2.29	47.26	6.82	8.77	1.095
16 December 2021	10.8	28.2	5.01	86.03	4.24	61.34	19.22	8.54	0.370
21 December 2021	9.4	27.0	5.07	47.96	7.47	161.97	12.16	8.51	0.665
26 December 2021	6.6	29.6	5.33	70.27	2.00	33.24	18.12	8.49	0.388
31 December 2021	6.8	28.4	7.42	90.78	3.90	50.22	20.27	8.03	0.477

NA: Missing data.