

Supplementary Material

Supplementary tables

Table S1. Average and standard deviations from surveyed biogeochemical parameters concentrations during the experiments at time zero and after 48 h in all treatments (Control, AMP, ATP and 3polyP) at both stations. Concentrations of nutrients and particulate organic matter are obtained from experimental triplicates.

	Volcano					Gyre				
	Time zero	Control	AMP	ATP	3polyP	Time zero	Control	AMP	ATP	3polyP
PO₄ (μM)	0.03 ± 0.00	0.02 ± 0.00	0.64 ± 0.09	5.27 ± 1.88	4.63 ± 0.05	0.09 ± 0.00	0.09 ± 0.01	0.36 ± 0.14	5.82 ± 0.53	2.98 ± 2.00
NO_x (μM)	0.08 ± 0.00	0.06 ± 0.03	0.04 ± 0.04	0.03 ± 0.00	0.06 ± 0.03	0.04 ± 0.02	0.05 ± 0.03	0.05 ± 0.02	0.05 ± 0.02	0.04 ± 0.02
DOP (μM)	0.18 ± 0.00	0.18 ± 0.18	0.28 ± 0.29	0.57 ± 0.58	2.68 ± 2.68	0.21 ± 0.00	0.22 ± 0.22	1.74 ± 0.78	0.21 ± 0.00	3.34 ± 3.35
DON (μM)	6.18 ± 0.34	5.69 ± 0.19	12.85 ± 0.23	30.57 ± 10	6.81 ± 1.87	6.46 ± 0.12	6.00 ± 0.34	12.11 ± 0.78	31.64 ± 7.76	5.74 ± 0.31
POC (μM)	2.34 ± 0.9	5.26 ± 1.31	27.14 ± 9.42	11.53 ± 0.05	6.67 ± 0.44	2.34 ± 0.08	2.06 ± 0.12	2.21 ± 0.31	19.81 ± 8.45	4.75 ± 2.49
PN (μM)	0.28 ± 0.13	0.78 ± 0.18	0.96 ± 0.06	5.81 ± 2.17	2.19 ± 0.04	0.28 ± 0.04	0.29 ± 0.02	0.32 ± 0.04	4.36 ± 1.97	0.90 ± 0.54

Supplementary Figures

Figure S1. Surface chlorophyll-a concentration map showing the cruise track (dotted-line) and the location of the two stations (yellow circles) where the experiments were performed (Volcano and Gyre).

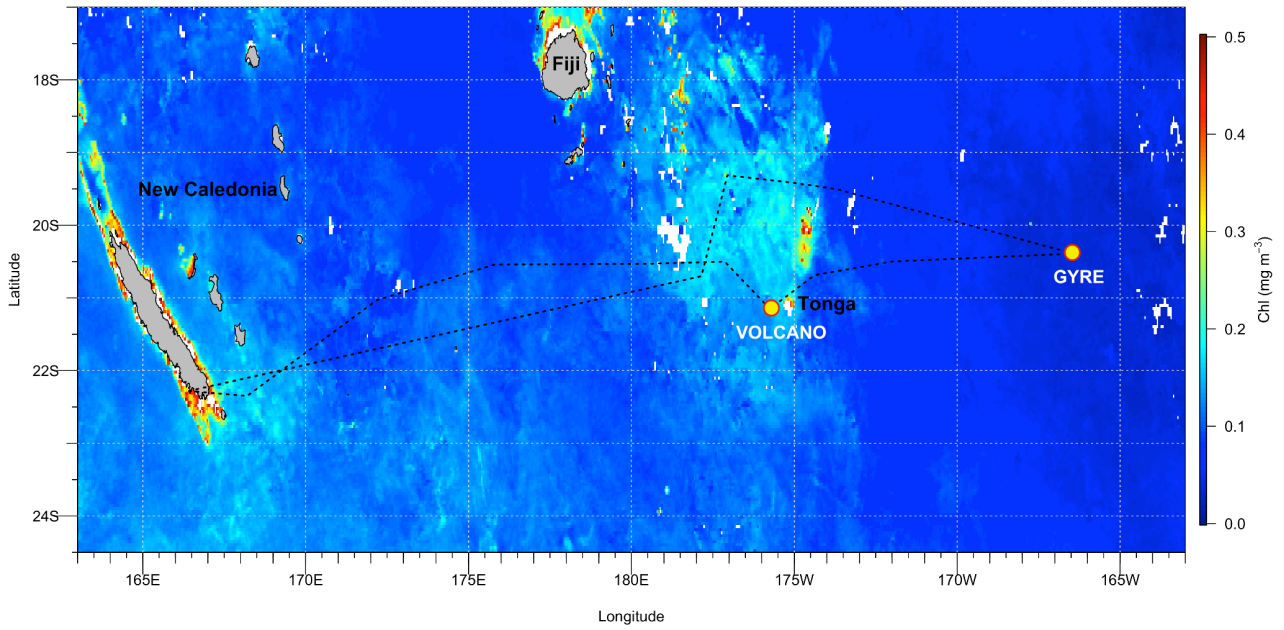


Figure S2. Depth distributions of phosphate (A), dissolved iron (B), temperature (C), salinity (D), dissolved oxygen concentrations (E) and chlorophyll-a concentrations derived from fluorescence (F) down to 300 m. Volcano station in black and Gyre station in gray.

