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Supplement of

N₂ fixation in eddies of the eastern tropical South Pacific Ocean

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Table S1: N₂ and C fixation rates measured during M90 and M91 cruises

cruise	station ID	latitude [°N]	longitude [°W]	depth [m]	C fixation [μmol L ⁻¹ d ⁻¹]	N ₂ fixation [nmol L ⁻¹ d ⁻¹]
M90	M90_1639-1	-16.749	-83.999	502	0.022	0.00
M90	M90_1639-1	-16.749	-83.999	450	0.247	1.42
M90	M90_1639-1	-16.749	-83.999	348	0.228	1.89
M90	M90_1639-1	-16.749	-83.999	300	0.026	0.21
M90	M90_1639-2	-16.749	-83.999	201	0.016	0.30
M90	M90_1639-2	-16.749	-83.999	150	0.006	0.51
M90	M90_1639-2	-16.749	-83.999	125	0.009	0.25
M90	M90_1639-2	-16.749	-83.999	40	0.251	0.18
M90	M90_1639-2	-16.749	-83.999	5	0.017	0.31
M90	M90_1646-1	-17.165	-83.581	500.3	0.018	0.04
M90	M90_1646-1	-17.165	-83.581	399.9	0.006	0.17
M90	M90_1646-1	-17.165	-83.581	380.4	0.030	0.13
M90	M90_1646-1	-17.165	-83.581	299.9	0.004	0.18
M90	M90_1646-2	-17.166	-83.583	200	0.008	0.38
M90	M90_1646-2	-17.166	-83.583	150	0.048	0.22
M90	M90_1646-2	-17.166	-83.583	125	0.014	0.05
M90	M90_1646-2	-17.166	-83.583	45	0.015	0.17
M90	M90_1646-2	-17.166	-83.583	5	0.019	0.73
M90	M90_1656-1	-15.998	-79.5	500	0.005	0.10
M90	M90_1656-1	-15.998	-79.5	400	0.021	0.13
M90	M90_1656-1	-15.998	-79.5	350	0.013	0.09
M90	M90_1656-1	-15.998	-79.5	300	0.012	0.16
M90	M90_1656-1	-15.998	-79.5	300	0.006	0.21
M90	M90_1656-1	-15.998	-79.5	200	0.009	0.36
M90	M90_1656-2	-15.999	-79.5	150	0.010	0.18
M90	M90_1656-2	-15.999	-79.5	100	0.008	0.31
M90	M90_1656-2	-15.999	-79.5	40	0.017	0.23
M90	M90_1656-2	-15.999	-79.5	5	0.016	1.48
M90	M90_1659-1	-16.333	-80.5	500	0.005	0.46
M90	M90_1659-1	-16.333	-80.5	400	0.005	0.13
M90	M90_1659-2	-16.333	-80.5	300	0.015	0.19
M90	M90_1659-2	-16.333	-80.5	250	0.016	0.16
M90	M90_1659-2	-16.333	-80.5	200	0.023	0.29
M90	M90_1659-2	-16.333	-80.5	150	0.015	0.15
M90	M90_1659-2	-16.333	-80.5	100	0.010	0.24
M90	M90_1659-2	-16.333	-80.5	40	0.018	0.39
M90	M90_1659-2	-16.333	-80.5	5	0.013	0.50
M90	M90_1664-1	-16.749	-78.001	500	0.004	0.13
M90	M90_1664-1	-16.749	-78.001	400	0.003	0.26
M90	M90_1664-2	-16.749	-78	350	0.014	0.26
M90	M90_1664-2	-16.749	-78	300	0.008	0.38

M90	M90_1664-2	-16.749	-78	200		0.48
M90	M90_1664-2	-16.749	-78	150	0.036	0.76
M90	M90_1664-2	-16.749	-78	100	0.020	0.73
M90	M90_1664-2	-16.749	-78	40	0.015	0.52
M90	M90_1664-2	-16.749	-78	5	0.026	3.76
M90	M90_1668-2	-16.75	-76	5	0.027	2.23
M90	M90_1668-2	-16.75	-76	40	0.007	0.15
M90	M90_1668-2	-16.75	-76	100	0.008	0.65
M90	M90_1668-2	-16.75	-76	150	0.009	0.78
M90	M90_1668-1	-16.749	-76	200	0.017	0.59
M90	M90_1668-1	-16.749	-76	300	0.015	0.28
M90	M90_1668-1	-16.749	-76	350	0.007	0.23
M90	M90_1668-1	-16.749	-76	400	0.008	0.28
M90	M90_1668-1	-16.749	-76	500	0.027	
M90	M90_1672-2	-16.232	-75.666	5	0.034	1.34
M90	M90_1672-2	-16.232	-75.666	100	0.066	0.86
M90	M90_1672-2	-16.232	-75.666	150	0.011	0.90
M90	M90_1672-1	-16.232	-75.666	200	0.041	0.75
M90	M90_1672-1	-16.232	-75.666	250	0.507	4.39
M90	M90_1672-1	-16.232	-75.666	300	0.174	N/A
M90	M90_1672-1	-16.232	-75.666	350	0.025	N/A
M90	M90_1672-1	-16.232	-75.666	400	0.282	0.25
M90	M90_1672-1	-16.232	-75.666	500	0.018	0.30
M91	M91_1773-2	-16.155	-76.807	299.2	0	0.30
M91	M91_1773-2	-16.155	-76.807	198.6	0.002	1.04
M91	M91_1773-3	-16.155	-76.823	101.9	0	2.45
M91	M91_1773-3	-16.155	-76.823	51.3	0.003	2.13
M91	M91_1773-3	-16.155	-76.823	7.4	0.01	3.45
M91	M91_1777-1	-15.519	-75.6	300.7	0.038	0.56
M91	M91_1777-4	-15.54	-75.614	200.9	0.025	0.46
M91	M91_1777-4	-15.54	-75.614	101.3	0.012	1.13
M91	M91_1777-4	-15.54	-75.614	51.4	0.017	2.32
M91	M91_1777-4	-15.54	-75.614	6.6	0.022	2.52

Table S2: qPCR-based quantification of *nifH* clusters P1-P8 as defined by Löscher et al. (2014) , a Crocosphaera-like diazotroph (UCYN-B) and total *nifH* [transcripts L⁻¹] as sum of the quantified clusters.

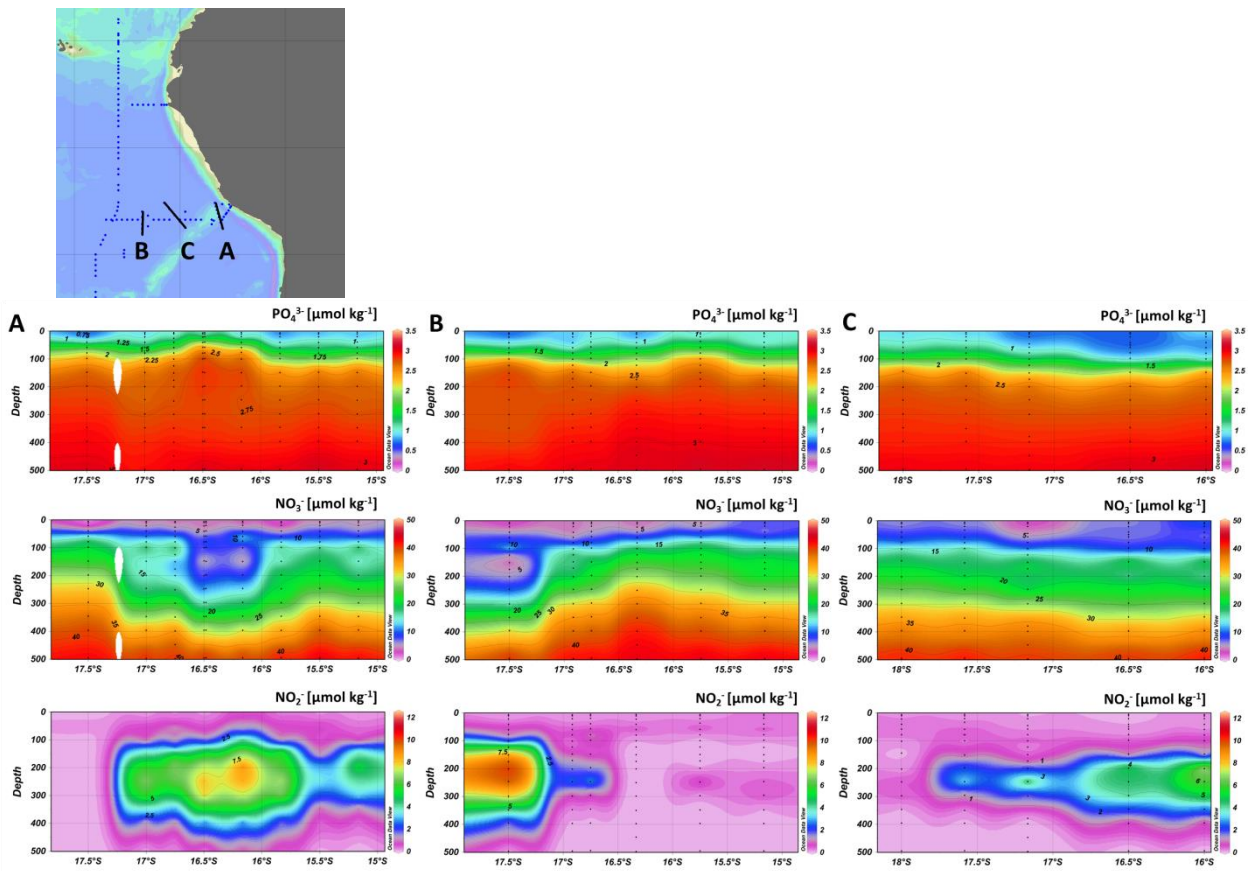


Figure S1: Phosphate, nitrate, nitrite in eddies **A**, **B** and **C** along three sections during the M90 cruise.

References

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