

Sta.	Depth (m)	[N ₂ O] (nM)	[NO ₂ ⁻] (μM)	R* (nM/d)	P* (nM/d)	Net (nM/d)	Turnover (d)
1	25	86.1	0.64	2.6	9.3	6.8	11.9
	40	24.7	5.91	35.2	34.9	-0.4	0.9
	50	12.8	3.12	23.4	22.5	-0.8	0.7
	60	18.9	6.78	6.1	6.4	0.3	3.8
	100	19.4	7.46	4.2	4.3	0.1	5.8
	150	19.3	4.96	4.9	5.3	0.4	4.7
	250	15.7	2.66	3.5	3.5	0.0	5.7
	500	16.2	0.00	3.5	3.2	-0.2	6.0
2	85	96.2	0.14	1.0	5.5	4.4	27.2
	100	61.1	0.11	1.6	4.0	2.5	23.5
	115	30.0	0.88	2.1	2.1	0.0	19.9
	125	13.6	2.68	2.6	2.6	0.0	6.9
	140	56.0	3.89	2.7	6.8	4.1	10.2
	150	34.1	6.11	1.5	4.1	2.7	12.9
	250	6.8	3.03	1.4	1.4	0.0	18.5
	500	17.9	0.50	1.6	1.6	0.0	11.7
3	95	107.0	0.00	1.4	4.5	3.5	36.1
	100	86.4	0.00	1.6	1.6	0.0	64.6
	115	24.6	1.16	1.6	0.4	-1.6	18.1
	125	14.6	2.05	2.7	2.1	-0.5	8.5
	140	14.8	3.07	2.8	2.7	0.0	8.2
	150	14.2	3.91	2.8	1.4	0.0	14.8
	200	13.9	2.99	1.7	1.0	-0.4	15.1
	250	46.1	2.65	1.8	2.4	0.8	30.5

Table S3. Biogeochemical measurements in the ETNP

Concentration and reduction rate (R) measurements from the 3 stations in the ETNP. Calculated production rates (P) and the net (P – R) are included. The turnover time is calculated as the N₂O concentration divided by the reduction rate if net N₂O sink or by the production rate if net source.