Table 1. Average values and standard errors (±SE) for bacterial variables and primary production during TYP1 (1), TYP3 (3) and TYP4 (4) cruises, and morphological characteristics of the atolls studied. Atolls are ranked by increasing permeability. Average ± SE are determined from campaign averages. Depth: estimated average depth. Permeability: percentage of immersed rim allowing water exchanges between lagoon and ocean (from Andréfouët et al. 2001a). BTR: bacterial turnover rate. PEA: potential exoproteolytic activity

Atoll	Lagoon area (km^2)	Total area (km^2)	Dry land (% of total)	Depth (m)	Permeability	Bacterial abundance (10^9 cell l^{-1})	Bacterial production (µg C l^{-1} d^{-1})	BTR (d^{-1})	PEA[a] (µM d^{-1})	Chl a[b] (µg l^{-1})	Primary production[c] (µgC l^{-1} d^{-1})	Cruise
Taiaro	11.84	17.25	31	13	0.9	1.84 ± 0.04	5.33 ± 0.43	0.15 ± 0.02	0.70 ± 0.04	0.35 ± 0.05	20.0 ± 0.1	3 4
Reka-Reka	0.74	5.16	86	1	1.7	1.61 ± 0.30	43.6 ± 3.2	1.54 ± 0.33	11.5 ± 0.5	0.43 ± 0.05	91.0 ± 12.4	1 3 4
Tepoto	1.56	6.15	75	5	15.2	1.13 ± 0.21	4.67 ± 0.82	0.23 ± 0.05	3.22 ± 0.11	0.18 ± 0.02	32.9 ± 5.6	1 3 4
Marokau	217.50	256.04	15	28	17.4	1.53 ± 0.02	2.18 ± 0.02	0.07 ± 0.00	1.71 ± 0.10	0.19 ± 0.04	7.8 ± 0.7	3 4
Hikueru	82.47	107.05	23	28	17.9	1.00 ± 0.07	3.33 ± 0.21	0.17 ± 0.00	1.72 ± 0.12	0.19 ± 0.02	9.3 ± 0.4	1 3 4
Haraiki	10.43	25.46	59	12	18.9	1.44 ± 0.29	7.74 ± 1.47	0.29 ± 0.02	3.35 ± 0.16	0.33 ± 0.05	30.2 ± 1.2	1 3 4
Hiti	15.28	25.48	40	10	19.4	2.07 ± 0.24	4.76 ± 0.07	0.12 ± 0.01	2.05 ± 0.06	0.26 ± 0.01	17.0 ± 0.4	3 4
Amanu	210.30	244.00	14	42	21.2	0.93	3.34	0.15		0.14		1
Kauehi	315.12	343.40	8	45	21.6	0.99 ± 0.14	2.57 ± 0.47	0.16 ± 0.06	0.46 ± 0.07	0.15 ± 0.01	7.9 ± 1.0	1 3 4
Tuanake	25.68	38.09	33	25	24.2	1.02	1.38	0.07		0.14		1
Nihiru	79.51	100.22	21	21	24.5	0.95 ± 0.19	3.15 ± 0.59	0.21 ± 0.07	1.52 ± 0.09	0.14 ± 0.03	8.8 ± 0.8	1 3 4
Tekokota	5.11	7.30	30	3	59.5	0.22 ± 0.04	1.00 ± 0.06	0.28 ± 0.08	2.59 ± 0.30	0.02 ± 0.00	1.2 ± 0.2	1 3 4
Ocean						0.54 ± 0.01	0.33 ± 0.04	0.031 ± 0.003	0.29 ± 0.07	0.05 ± 0.01	2.5 ± 0.1	3 4

[a]Determined only during TYP4 cruise; SE represents divergence between stations; [b]from Charpy & Blanchot (1998); [c]determined only during TYP3 and TYP4 cruises