

Table S2. Site-based characteristics and biological metrics used for data analyses.

Jurisdiction	Island	Site	Local name	GPS X	GPS Y	Reef type	MPA Status	Wave Exposure (J/m3)	Distance from major fishing port (km)	Fishing proxy (standardized by strata and combined)	Disturbed land in watershed (km2)	Distance from discharge (km)	Pollution proxy (standardized by strata and combined)
Commonwealth of the Northern Mariana Islands	Aguijan	CNMI-1	AGU_12	342807	1642480	Spur-and-groove	No	629.8	38.6	4.37	0.04	0.20	2.58
Commonwealth of the Northern Mariana Islands	Rota	CNMI-10	ROT_6_12	300459	1566145	Rota raised Holocene	No	365.4	3.4	12.61	0.19	0.18	4.01
Commonwealth of the Northern Mariana Islands	Rota	CNMI-11	RR_12	308740	1570072	Rota raised Holocene	No	965.3	12.8	3.79	0.29	0.12	6.51
Commonwealth of the Northern Mariana Islands	Rota	CNMI-12	SAHY_12	299569	1563743	Rota raised Holocene	No	161.1	0.5	14.37	0.11	0.18	3.03
Commonwealth of the Northern Mariana Islands	Rota	CNMI-13	TALK_12	305271	1561044	Rota raised Holocene	No	584.0	7.2	3.56	0.56	0.22	7.21
Commonwealth of the Northern Mariana Islands	Rota	CNMI-14	WHB_12	298271	1563772	Rota raised Holocene	No	407.0	0.6	13.63	0.09	0.39	0.38
Commonwealth of the Northern Mariana Islands	Saipan	CNMI-2	BI_12	372724	1687351	Spur-and-groove	Yes	501.2	25.6	7.88	0.09	0.21	1.47
Commonwealth of the Northern Mariana Islands	Saipan	CNMI-3	COP_12	360977	1670710	Spur-and-groove	No	128.7	7.42	13.91	0.29	0.19	5.47
Commonwealth of the Northern Mariana Islands	Saipan	CNMI-4	LLB#1_12	366425	1676402	Spur-and-groove	No	224.3	21.4	10.11	0.09	0.18	5.48
Commonwealth of the Northern Mariana Islands	Saipan	CNMI-5	OBV_12_2	364397	1670287	Spur-and-groove	No	127.8	10.9	13.33	0.13	0.18	5.85
Commonwealth of the Northern Mariana Islands	Saipan	CNMI-6	OGND_12	359633	1676634	Spur-and-groove	No	304.0	1.7	15.65	N/A	N/A	N/A
Commonwealth of the Northern Mariana Islands	Saipan	CNMI-7	TANK_12	369943	1678305	Spur-and-groove	Yes	2530.1	27.4	1.86	1.16	0.20	7.63
Commonwealth of the Northern Mariana Islands	Saipan	CNMI-8	WB_11	370155	1688934	Spur-and-groove	No	360.5	15.2	11.31	N/A	N/A	N/A
Commonwealth of the Northern Mariana Islands	Tinian	CNMI-9	TIN - 1 (12)	355222	1662018	Spur-and-groove	No	2215.9	14.8	5.15	0.04	0.21	1.37
Federated States of Micronesia	Chuuk	CHK-1	Puwe	837023	377259	Patch	No	247.0	12.6	8.94	N/A	N/A	N/A
Federated States of Micronesia	Chuuk	CHK-10	Fourupw	806821	341489	Channel	No	262.3	37.4	13.76	N/A	N/A	N/A
Federated States of Micronesia	Chuuk	CHK-11	Wininen	793255	384328	Patch	No	426.5	36.2	1.68	N/A	N/A	N/A
Federated States of Micronesia	Chuuk	CHK-12	Oun	836404	354517	Channel	No	2021.6	21.6	3.06	N/A	N/A	N/A
Federated States of Micronesia	Chuuk	CHK-13	Moch	831950	386042	Channel	No	195.6	13.8	14.00	N/A	N/A	N/A
Federated States of Micronesia	Chuuk	CHK-14	Sapuk	824304	379043	Inner	No	40.0	7.8	12.50	0.04	0.58	2.67
Federated States of Micronesia	Chuuk	CHK-15	Apichun	819913	378854	Patch	No	59.9	12.2	13.44	N/A	N/A	N/A
Federated States of Micronesia	Chuuk	CHK-16	Manukun	808363	375577	Inner	No	117.9	18.2	7.06	0.04	0.29	4.31
Federated States of Micronesia	Chuuk	CHK-17	Fanangal	833887	368737	Patch	No	195.0	9.9	10.90	N/A	N/A	N/A
Federated States of Micronesia	Chuuk	CHK-18	Och	817621	361795	Inner	No	318.8	13.1	6.62	0.01	0.81	1.31
Federated States of Micronesia	Chuuk	CHK-19	none yet	806077	356745	Inner	No	665.1	24.7	1.56	N/A	N/A	4.34
Federated States of Micronesia	Chuuk	CHK-2	Truk Stop	822864	371782	Inner	No	229.7	2.9	12.20	0.71	0.33	10.60
Federated States of Micronesia	Chuuk	CHK-3	Sanat	800230	390961	Channel	No	157.3	32.3	6.71	N/A	N/A	N/A
Federated States of Micronesia	Chuuk	CHK-4	Aroch	800578	378381	Patch	No	144.5	28.5	7.60	N/A	N/A	N/A
Federated States of Micronesia	Chuuk	CHK-5	Oranu	826638	344641	Channel	No	136.7	28.7	6.59	N/A	N/A	N/A
Federated States of Micronesia	Chuuk	CHK-6	Parem	814354	365876	Inner	No	11.4	11.2	11.30	0.07	0.20	5.14
Federated States of Micronesia	Chuuk	CHK-7	Piis	848755	365095	Channel	No	228.0	25.3	9.21	N/A	N/A	N/A
Federated States of Micronesia	Chuuk	CHK-8	Falos	833313	363960	Patch	No	0.2	11.8	15.00	N/A	N/A	N/A
Federated States of Micronesia	Chuuk	CHK-9	Nematon	814047	343125	Inner	No	2.7	40.2	15.54	0.07	0.92	0.87
Federated States of Micronesia	Kosrae	KOS-1	Buoy-16	582358	276178	Outer	No	127.5	2.6	14.96	0.11	0.25	5.06
Federated States of Micronesia	Kosrae	KOS-3	Buoy-8	584519	281554	Outer	No	2382.2	6.9	3.96	0.20	1.27	1.73
Federated States of Micronesia	Kosrae	KOS-4	Buoy-T5	591012	272464	Outer	No	122.0	2.1	15.62	0.47	1.49	1.12
Federated States of Micronesia	Kosrae	KOS-5	Buoy-44	553424	167286	Outer	No	813.0	4.1	10.73	0.36	0.63	7.12
Federated States of Micronesia	Kosrae	KOS-6	Buoy-50	553002	278247	Outer	No	2372.3	6.1	4.41	0.09	0.35	4.33
Federated States of Micronesia	Kosrae	KOS-7	Buoy-20	582503	273344	Outer	No	239.8	2.1	15.14	0.04	0.65	2.63
Federated States of Micronesia	Kosrae	KOS-2	Buoy-27	585054	267521	Outer	No	156.8	11.2	3.95	0.01	0.68	2.18
Federated States of Micronesia	Kosrae	KOS-8	Buoy-53	590883	281512	Outer	No	2388.2	4.2	5.38	N/A	N/A	N/A
Federated States of Micronesia	Kosrae	KOS-9	Buoy-14	581642	277193	Outer	No	788.6	5.3	9.55	0.19	0.20	6.85
Federated States of Micronesia	Kosrae	KOS-10	Buoy-31	587580	267346	Outer	No	200.4	8.8	6.91	0.01	0.98	1.48
Federated States of Micronesia	Pohnpei	PNI-1	Sapwitik MPA Inner Reef	774869	414498	Inner	Yes	33.6	5.74	7.44	4.64	5.16	4.55
Federated States of Micronesia	Pohnpei	PNI-9	Pearem patch reef	773142	419563	Inner	No	39.3	12.9	5.20	0.18	3.55	2.16
Federated States of Micronesia	Pohnpei	PNI-10	Black Coral	751750	401833	Outer	Yes	151.4	31.1	9.99	N/A	N/A	N/A
Federated States of Micronesia	Pohnpei	PNI-11	Laiap Island	749443	410766	Inner	Yes	6.8	37.8	7.21	0.30	2.74	2.74
Federated States of Micronesia	Pohnpei	PNI-2	Palikir Channel	771437	403790	Inner	No	23.9	11.2	9.24	0.71	6.84	0.62
Federated States of Micronesia	Pohnpei	PNI-12	Nahtik Inner	749411	413314	Inner	No	2.2	40.9	7.03	0.39	2.12	3.23
Federated States of Micronesia	Pohnpei	PNI-13	Nan Mwokil	748516	417939	Inner	No	0.3	45.3	6.07	0.43	4.14	2.11
Federated States of Micronesia	Pohnpei	PNI-14	Nan Pwin	751234	424215	Outer	No	2403.0	53.1	2.38	0.35	2.48	N/A
Federated States of Micronesia	Pohnpei	PNI-15	Nan Wap Outer	759729	429066	Outer	Yes	2367.0	32.9	4.87	2.78	7.63	N/A
Federated States of Micronesia	Pohnpei	PNI-16	Nan Wap Inner	759707	427638	Inner	Yes	2.8	35.7	8.28	2.78	5.30	3.04
Federated States of Micronesia	Pohnpei	PNI-17	Madamken	768932	426178	Outer	No	2367.9	23.6	6.00	N/A	N/A	N/A
Federated States of Micronesia	Pohnpei	PNI-3	Palikir Inner Reef (Mwahng)	769443	405093	Inner	No	5.2	11.7	13.85	0.07	2.03	2.76
Federated States of Micronesia	Pohnpei	PNI-4	Main Channel (Sokehs)	773711	409658	Outer	No	24.4	5.4	16.56	4.59	5.23	N/A
Federated States of Micronesia	Pohnpei	PNI-5	Nan Mveli Outer Reef	779036	414985	Outer	No	288.1	9.9	14.58	N/A	N/A	N/A
Federated States of Micronesia	Pohnpei	PNI-6	Pwukihn Dawahk Outer Reef	768618	399166	Outer	No	220.5	18.8	12.72	N/A	N/A	N/A
Federated States of Micronesia	Pohnpei	PNI-7	Pehleng Channel	758640	401697	Inner	No	29.9	24.1	5.97	2.52	5.51	2.62
Federated States of Micronesia	Pohnpei	PNI-8	Mwahnd MPA Inner Reef	774875	422339	Inner	Yes	1.7	14.1	14.10	0.18	6.23	0.79
Federated States of Micronesia	Yap	YAP-1	Atliw	1058744	181245	Outer	No	839.5	19.9	10.26	0.14	1.23	N/A
Federated States of Micronesia	Yap	YAP-9	Gafnuw Channel	1059013	192630	Channel	No	202.4	19.6	5.30	1.61	3.20	1.77
Federated States of Micronesia	Yap	YAP-10	Mil Inner Reef	1063528	185988	Inner	No	19.0	11.4	4.77	0.19	1.56	2.10
Federated States of Micronesia	Yap	YAP-11	Pakel	1054712	184646	Inner	No	1.1	3.1	14.10	1.32	1.67	3.60

Jurisdiction	Island	Site	Local name	GPS X	GPS Y	Reef type	MPA Status	Wave Exposure (1/m3)	Distance from major fishing port (km)	Fishing proxy (standardized by strata and combined)	Disturbed land in watershed (km2)	Distance from discharge (km)	Pollution proxy (standardized by strata and combined)
Federated States of Micronesia	Yap	YAP-12	Toruw	1063860	191153	Outer	No	1772.1	22.6	4.42	N/A	N/A	N/A
Federated States of Micronesia	Yap	YAP-14	Nimpal Channel	1056509	179732	Channel	Yes	243.2	21.2	4.09	0.18	0.94	1.21
Federated States of Micronesia	Yap	YAP-2	Gachug	1053766	178195	Channel	No	6.6	23.7	7.48	0.98	1.39	4.86
Federated States of Micronesia	Yap	YAP-3	N'ef Blue Hole	1048969	176663	Inner	No	8.1	26.1	4.69	0.02	0.72	4.06
Federated States of Micronesia	Yap	YAP-4	Reey Outer Reef	1048630	175506	Outer	Yes	808.8	24.1	7.83	N/A	N/A	N/A
Federated States of Micronesia	Yap	YAP-5	Af Blue Hole	1052437	186614	Inner	No	2.1	3.1	13.66	0.00	0.71	4.02
Federated States of Micronesia	Yap	YAP-6	Gabach Channel	1049852	183837	Channel	No	0.9	5.2	16.44	1.33	2.45	3.57
Federated States of Micronesia	Yap	YAP-7	Garim	1045326	179338	Outer	No	1830.4	11.6	7.39	N/A	N/A	N/A
Federated States of Micronesia	Yap	YAP-8	Pelak Channel	1053411	190363	Channel	No	1.8	10.7	13.78	1.14	1.64	5.02
Federated States of Micronesia	Yap	Yap-15	Rumong outer reef	1067126	186067	Outer	No	1064.4	16.26	11.02	N/A	N/A	N/A
Federated States of Micronesia	Yap	Yap-13	Af outer reef	1050819	187756	Outer	Yes	1647.0	7.1	10.44	N/A	N/A	N/A
Republic of the Marshall Islands	Namdrik	NAM-1	Nam-1	618775	178446	Outer	No	253.3	1.6	15.66	0.00	0.46	1.02
Republic of the Marshall Islands	Namdrik	NAM-2	Nam-2	618469	180888	Outer	No	785.2	3.9	11.12	0.00	0.30	-0.04
Republic of the Marshall Islands	Namdrik	NAM-3	Nam-3	623866	180412	Outer	No	2270.6	9.1	3.17	0.00	0.74	-0.66
Republic of the Marshall Islands	Namdrik	NAM-4	Nam-4	623966	177201	Outer	No	63.6	4.6	12.39	N/A	N/A	-0.19
Republic of the Marshall Islands	Namdrik	NAM-5	Nam-6	621759	182159	Outer	No	2659.0	8.3	3.03	0.00	0.24	0.32
Republic of the Marshall Islands	Namdrik	NAM-6	Nam-7	618506	180399	Outer	No	288.9	3.5	13.14	0.00	0.25	0.73

Island	site	benthic ratio	coral evenness (Shannon H)	coral cover	macroalgae cover
Aguijan	CNMI-1	1.29	2.29	35.28	2.72
Rota	CNMI-10	0.50	1.74	9.04	20.34
Rota	CNMI-11	0.86	1.03	9.14	20.39
Rota	CNMI-12	0.42	1.92	6.73	13.36
Rota	CNMI-13	0.46	1.84	6.32	7.17
Rota	CNMI-14	0.22	1.75	5.64	6.73
Saipan	CNMI-2	1.27	2.48	36.60	6.00
Saipan	CNMI-3	0.79	2.23	30.32	1.79
Saipan	CNMI-4	0.31	2.06	5.76	6.46
Saipan	CNMI-5	1.74	2.16	24.28	3.91
Saipan	CNMI-6	1.55	2.40	24.06	6.80
Saipan	CNMI-7	1.20	2.61	38.39	0.74
Saipan	CNMI-8	0.88	2.02	21.46	6.40
Tinian	CNMI-9	1.60	2.38	35.36	2.16
Chuuk	CHK-1	1.00	0.77	31.04	24.30
Chuuk	CHK-10	1.71	1.50	38.52	17.73
Chuuk	CHK-11	0.79	1.05	19.49	31.38
Chuuk	CHK-12	2.07	1.70	35.10	15.92
Chuuk	CHK-13	1.20	1.25	27.36	9.52
Chuuk	CHK-14	2.48	0.42	32.82	5.31
Chuuk	CHK-15	0.51	0.59	4.08	39.97
Chuuk	CHK-16	1.71	1.20	30.42	6.42
Chuuk	CHK-17	1.43	1.58	32.40	18.32
Chuuk	CHK-18	1.88	1.25	24.16	4.65
Chuuk	CHK-19	2.00	1.26	28.75	19.67
Chuuk	CHK-2	1.44	0.66	26.48	17.78
Chuuk	CHK-3	2.27	0.53	27.62	12.90
Chuuk	CHK-4	1.31	0.96	30.00	9.04
Chuuk	CHK-5	3.11	1.54	38.90	2.37
Chuuk	CHK-6	0.70	0.61	21.28	30.16
Chuuk	CHK-7	1.94	1.31	38.88	16.62
Chuuk	CHK-8	1.06	1.41	17.60	21.68
Chuuk	CHK-9	1.00	1.14	28.40	32.40
Kosrae	KOS-1	3.18	1.85	66.72	7.04
Kosrae	KOS-3	1.85	1.47	44.12	4.72
Kosrae	KOS-4	1.21	1.61	41.55	9.85
Kosrae	KOS-5	0.76	2.18	16.03	6.33
Kosrae	KOS-6	2.28	1.65	51.04	3.20
Kosrae	KOS-7	0.56	2.06	20.64	24.48
Kosrae	KOS-2	2.56	1.97	62.76	9.69
Kosrae	KOS-8	2.43	1.73	48.00	2.40
Kosrae	KOS-9	1.86	2.20	46.03	5.52

Island	site	benthic ratio	coral evenness (Shannon H)	coral cover	macroalgae cover
Kosrae	KOS-10	1.92	1.96	50.24	3.84
Pohnpei	PNI-1	3.33	1.42	44.24	0.00
Pohnpei	PNI-9	1.91	1.49	42.46	0.64
Pohnpei	PNI-10	2.50	1.26	15.68	15.92
Pohnpei	PNI-11	0.50	1.44	23.50	1.92
Pohnpei	PNI-2	1.38	1.40	35.52	1.68
Pohnpei	PNI-12	1.17	1.89	25.76	1.04
Pohnpei	PNI-13	2.88	2.42	53.99	1.92
Pohnpei	PNI-14	3.86	1.86	18.72	19.04
Pohnpei	PNI-15	3.00	1.52	8.72	19.60
Pohnpei	PNI-16	1.76	1.32	57.68	5.92
Pohnpei	PNI-17	1.29	1.74	23.60	9.36
Pohnpei	PNI-3	3.72	1.51	39.28	0.72
Pohnpei	PNI-4	1.30	1.65	8.53	29.44
Pohnpei	PNI-5	1.97	1.84	12.80	0.48
Pohnpei	PNI-6	1.94	1.48	21.76	6.56
Pohnpei	PNI-7	2.85	1.60	36.72	2.88
Pohnpei	PNI-8	4.63	1.64	52.88	0.08
Yap	YAP-1	3.60	1.87	49.04	0.64
Yap	YAP-9	5.17	1.73	61.76	0.00
Yap	YAP-10	3.14	1.06	63.20	0.00
Yap	YAP-11	3.39	1.14	54.48	0.00
Yap	YAP-12	2.58	2.25	25.04	0.00
Yap	YAP-14	5.65	1.63	54.16	0.08
Yap	YAP-2	5.75	1.59	65.52	1.36
Yap	YAP-3	5.51	0.82	64.16	0.00
Yap	YAP-4	1.95	2.21	31.04	0.32
Yap	YAP-5	4.15	0.58	43.84	0.08
Yap	YAP-6	2.60	0.99	48.48	3.44
Yap	YAP-7	2.55	1.80	29.68	0.48
Yap	YAP-8	3.00	1.96	49.60	0.00
Yap	Yap-15	3.59	1.62	30.53	0.17
Yap	Yap-13	1.38	1.95	12.16	0.00
Namdrik	NAM-1	5.29	1.86	48.24	10.08
Namdrik	NAM-2	5.12	2.10	35.68	4.88
Namdrik	NAM-3	13.78	1.37	58.53	1.06
Namdrik	NAM-4	2.87	1.78	37.71	21.61
Namdrik	NAM-5	9.43	1.79	65.02	4.81
Namdrik	NAM-6	4.91	2.06	28.42	11.50

Island	Site	fish assem size (cm)	fish ass biomass (kg/SPC)	predator biomass (kg/SPC)	fish heterogeneity (% dissimilarity)	fish evenness (Shannon H)
Aguijan	CNMI-1	15.98	2.71	0.51	45.81	2.80
Rota	CNMI-10	11.98	0.95	0.07	47.56	2.21
Rota	CNMI-11	14.23	7.44	0.12	54.34	0.78
Rota	CNMI-12	14.69	2.57	1.26	45.31	2.23
Rota	CNMI-13	13.44	1.78	0.03	51.49	2.71
Rota	CNMI-14	11.84	1.00	0.04	41.09	1.88
Saipan	CNMI-2	14.24	2.27	0.11	43.26	2.62
Saipan	CNMI-3	10.15	0.51	0.00	41.52	1.95
Saipan	CNMI-4	10.02	0.84	0.68	38.92	1.80
Saipan	CNMI-5	11.02	2.44	0.05	41.95	2.40
Saipan	CNMI-6	8.92	0.42	0.00	32.87	1.66
Saipan	CNMI-7	14.60	0.90	0.06	30.04	0.98
Saipan	CNMI-8	10.91	2.80	0.10	38.23	2.22
Tinian	CNMI-9	13.67	0.78	0.01	38.75	1.56
Chuuk	CHK-1	12.36	1.32	2.22	47.18	2.09
Chuuk	CHK-10	13.18	2.89	5.69	51.18	1.90
Chuuk	CHK-11	21.64	10.91	4.36	49.01	2.79
Chuuk	CHK-12	22.84	16.67	82.01	36.16	2.39
Chuuk	CHK-13	18.70	5.75	3.01	52.63	2.73
Chuuk	CHK-14	16.60	4.04	0.10	48.50	2.68
Chuuk	CHK-15	14.72	4.73	2.58	50.60	2.56
Chuuk	CHK-16	14.41	2.01	0.01	57.93	2.42
Chuuk	CHK-17	18.75	9.43	68.23	34.43	1.83
Chuuk	CHK-18	14.77	4.04	3.99	49.84	2.22
Chuuk	CHK-19	19.22	8.48	29.98	51.31	2.27
Chuuk	CHK-2	9.54	0.45	0.00	36.21	1.81
Chuuk	CHK-3	14.83	3.47	0.18	53.59	2.64
Chuuk	CHK-4	12.49	1.19	0.97	46.27	1.98
Chuuk	CHK-5	18.87	6.66	45.83	17.11	2.16
Chuuk	CHK-6	9.76	0.48	0.00	34.04	1.66
Chuuk	CHK-7	13.17	3.86	9.08	56.31	2.11
Chuuk	CHK-8	14.25	2.39	1.41	59.59	2.43
Chuuk	CHK-9	17.01	5.78	19.44	47.36	2.22
Kosrae	KOS-1	16.87	3.02	0.07	47.95	2.69
Kosrae	KOS-3	15.45	4.07	0.03	34.56	2.64
Kosrae	KOS-4	16.83	4.04	0.03	40.99	2.57
Kosrae	KOS-5	15.52	3.11	0.27	47.24	3.11
Kosrae	KOS-6	15.63	4.01	0.08	39.51	2.76
Kosrae	KOS-7	14.11	2.50	0.05	39.31	2.81
Kosrae	KOS-2	16.47	3.14	0.16	46.35	3.03
Kosrae	KOS-8	17.82	6.79	0.25	46.75	2.82
Kosrae	KOS-9	16.29	4.06	0.02	42.90	2.90
Kosrae	KOS-10	15.23	1.99	0.04	39.70	2.80
Pohnpei	PNI-1	11.97	1.54	0.01	42.67	2.54
Pohnpei	PNI-9	15.89	2.76	0.38	39.43	2.65
Pohnpei	PNI-10	17.83	6.36	0.28	43.07	2.81
Pohnpei	PNI-11	14.31	1.72	0.17	38.85	2.57
Pohnpei	PNI-2	12.48	1.84	1.22	50.61	2.70
Pohnpei	PNI-12	17.60	3.20	0.43	50.54	3.13
Pohnpei	PNI-13	15.00	1.64	0.00	41.72	2.46
Pohnpei	PNI-14	17.44	12.31	0.14	38.49	2.46
Pohnpei	PNI-15	21.94	34.70	1.71	42.22	2.74
Pohnpei	PNI-16	19.85	7.92	0.40	51.18	2.62
Pohnpei	PNI-17	17.79	8.73	0.51	40.46	2.71
Pohnpei	PNI-3	13.08	1.45	0.09	48.47	2.77
Pohnpei	PNI-4	11.28	2.11	0.02	45.30	2.45
Pohnpei	PNI-5	12.16	2.77	0.04	33.09	2.46
Pohnpei	PNI-6	12.72	5.21	0.18	44.96	2.97
Pohnpei	PNI-7	13.50	2.68	0.32	49.33	2.05
Pohnpei	PNI-8	12.11	1.32	0.04	46.68	2.76
Yap	YAP-1	11.36	2.14	0.14	43.65	2.08
Yap	YAP-9	14.00	1.80	0.22	55.21	2.22
Yap	YAP-10	10.33	0.65	0.00	37.85	1.75
Yap	YAP-11	7.86	0.37	0.13	55.85	1.73
Yap	YAP-12	11.22	1.75	0.39	54.83	2.35
Yap	YAP-14	14.29	2.02	0.93	50.00	2.13
Yap	YAP-2	13.15	1.46	0.06	40.56	2.33
Yap	YAP-3	9.85	0.34	0.02	53.40	2.05

Island	Site	fish assem size (cm)	fish ass biomass (kg/SPC)	predator biomass (kg/SPC)	fish heterogeneity (% dissimilarity)	fish evenness (Shannon H)
Yap	YAP-4	13.10	2.15	0.80	47.19	1.96
Yap	YAP-5	9.71	0.51	0.07	36.02	1.73
Yap	YAP-6	12.87	3.66	0.40	52.43	2.58
Yap	YAP-7	13.11	4.79	1.23	48.72	2.66
Yap	YAP-8	10.87	1.09	0.40	34.45	1.90
Yap	Yap-15	14.98	2.52	0.36	57.59	2.93
Yap	Yap-13	13.28	4.81	0.48	46.86	2.93
Namdrik	NAM-1	19.24	4.23	1.82	53.13	2.46
Namdrik	NAM-2	19.48	6.27	2.78	56.19	2.89
Namdrik	NAM-3	19.04	5.77	7.52	48.34	2.74
Namdrik	NAM-4	22.41	8.58	4.75	52.60	2.61
Namdrik	NAM-5	17.24	3.75	1.56	49.72	2.91
Namdrik	NAM-6	16.46	2.95	5.29	44.79	1.99

Island	Site	coral skewness	coral heterogeneity (% dissimilarity)	species richness	coral evenness (Shannon H)
Aguijan	CNMI-1	2.53	65.91	6.50	3.30
Rota	CNMI-10	4.37	54.56	6.94	2.53
Rota	CNMI-11	2.72	50.84	5.27	1.22
Rota	CNMI-12	1.73	59.93	5.88	2.63
Rota	CNMI-13	2.43	62.13	4.38	2.41
Rota	CNMI-14	1.68	61.10	5.88	2.82
Saipan	CNMI-2	4.14	56.79	10.00	3.14
Saipan	CNMI-3	2.34	56.78	8.75	3.04
Saipan	CNMI-4	2.74	58.27	7.19	2.91
Saipan	CNMI-5	2.99	60.25	8.56	2.96
Saipan	CNMI-6	3.91	64.19	5.81	3.10
Saipan	CNMI-7	3.74	61.02	6.56	2.88
Saipan	CNMI-8	2.60	59.50	7.44	3.00
Tinian	CNMI-9	2.68	61.90	8.13	3.30
Chuuk	CHK-1	3.86	54.80	4.20	1.70
Chuuk	CHK-10	3.17	45.94	7.90	2.00
Chuuk	CHK-11	NA	NA	NA	NA
Chuuk	CHK-12	NA	NA	NA	NA
Chuuk	CHK-13	NA	NA	NA	NA
Chuuk	CHK-14	NA	NA	NA	NA
Chuuk	CHK-15	NA	NA	NA	NA
Chuuk	CHK-16	NA	NA	NA	NA
Chuuk	CHK-17	NA	NA	NA	NA
Chuuk	CHK-18	NA	NA	NA	NA
Chuuk	CHK-19	NA	NA	NA	NA
Chuuk	CHK-2	2.30	55.06	2.40	1.22
Chuuk	CHK-3	3.60	50.99	6.80	1.45
Chuuk	CHK-4	6.60	60.99	7.20	1.99
Chuuk	CHK-5	4.12	51.77	9.20	2.31
Chuuk	CHK-6	4.20	50.33	2.50	1.15
Chuuk	CHK-7	2.54	54.25	6.00	2.09
Chuuk	CHK-8	3.30	61.20	4.40	1.81
Chuuk	CHK-9	3.00	53.39	2.60	1.36
Kosrae	KOS-1	3.82	57.66	5.40	2.57
Kosrae	KOS-3	2.89	61.20	3.50	1.89
Kosrae	KOS-4	5.29	48.75	8.80	2.28
Kosrae	KOS-5	4.37	53.98	9.10	2.48
Kosrae	KOS-6	4.10	58.74	4.90	2.34
Kosrae	KOS-7	3.93	61.17	5.60	2.33
Kosrae	KOS-2	3.61	58.06	7.40	2.65
Kosrae	KOS-8	1.99	50.21	11.30	2.83
Kosrae	KOS-9	3.66	62.09	5.10	2.74
Kosrae	KOS-10	3.51	52.82	6.60	2.33
Pohnpei	PNI-1	3.32	51.72	5.70	1.66
Pohnpei	PNI-9	4.40	29.60	6.20	1.84
Pohnpei	PNI-10	4.65	48.99	7.90	1.73
Pohnpei	PNI-11	2.58	48.19	4.70	1.75
Pohnpei	PNI-2	4.50	52.13	5.30	1.49
Pohnpei	PNI-12	4.84	53.27	5.40	1.61
Pohnpei	PNI-13	2.55	58.86	9.90	3.01
Pohnpei	PNI-14	2.58	60.11	5.50	2.26

Island	Site	coral skewness	coral heterogeneity (% dissimilarity)	species richness	coral evenness (Shannon H)
Pohnpei	PNI-15	1.37	61.38	6.60	2.61
Pohnpei	PNI-16	2.39	29.16	3.90	1.34
Pohnpei	PNI-17	2.50	56.73	7.40	2.08
Pohnpei	PNI-3	4.73	40.04	3.60	1.20
Pohnpei	PNI-4	3.20	50.00	5.60	1.63
Pohnpei	PNI-5	2.79	46.61	9.70	2.15
Pohnpei	PNI-6	2.70	42.39	8.80	1.48
Pohnpei	PNI-7	5.16	44.84	7.20	1.60
Pohnpei	PNI-8	4.37	40.34	6.70	1.68
Yap	YAP-1	1.45	51.71	8.20	2.60
Yap	YAP-9	4.45	56.56	7.25	2.48
Yap	YAP-10	4.92	45.70	6.50	1.68
Yap	YAP-11	3.80	48.91	4.13	1.67
Yap	YAP-12	4.50	55.02	9.50	2.20
Yap	YAP-14	6.54	51.73	9.40	1.95
Yap	YAP-2	3.60	54.22	5.75	2.36
Yap	YAP-3	4.33	39.53	3.88	1.16
Yap	YAP-4	3.69	55.59	11.00	2.63
Yap	YAP-5	2.44	34.22	2.13	1.04
Yap	YAP-6	2.78	24.91	4.50	1.04
Yap	YAP-7	3.56	53.34	9.63	2.16
Yap	YAP-8	3.47	49.78	5.25	2.11
Yap	Yap-15	4.46	35.13	12.20	1.80
Yap	Yap-13	2.29	58.15	8.00	2.56
Namdrik	NAM-1	2.99	50.72	5.80	1.87
Namdrik	NAM-2	3.19	56.51	4.20	2.29
Namdrik	NAM-3	2.03	42.39	7.60	2.39
Namdrik	NAM-4	4.33	52.56	5.60	1.75
Namdrik	NAM-5	2.44	53.47	8.60	2.20
Namdrik	NAM-6	1.89	49.62	4.80	2.61