Supplementary Material S2

Table S2. Functional traits of each functional group (FG) and species. L_{max} corresponds to the maximum fish size reported (cm); W_{max} the maximum fish wet weight reported (g); Size = W_{max}/L_{max}^3 (Johnstone 1912); TL trophic level; P/B production/biomass rate ($year^{-1}$) and; Q/B consumption/biomass rate ($year^{-1}$). L_{max}, W_{max}, TL, and Q/B were obtained from Froese and Pauly (2025).

FG	Species	L_{max}	W_{max}	Size	TL	P/B	Q/B
a	*Caranx sexfasciatus* Quoy & Gaimard, 1825	120.00	80000.00	0.0463	4.00	0.48	4.80
a	*Lutjanus argentiventris* (Peters, 1869)	71.00	13000.00	0.0363	4.00	0.28	7.50
a	*Pareques fuscovittatus* (Kendall & Radcliffe, 1912)	20.00	466.94	0.0584	3.50	1.52	22.40
a	*Zanclus cornutus* (Linnaeus, 1758)	23.00	570.45	0.0469	2.49	1.24	30.40
b	*Aluterus scriptus* (Osbeck, 1765)	110.00	2500.00	0.0019	2.80	0.18	13.90
b	*Gerres cinereus* (Walbaum, 1792)	41.00	350.00	0.0051	3.30	1.22	8.90
b	*Holacanthus clarionensis* Gilbert, 1890	20.00	93.90	0.0117	2.60	0.66	12.00
b	*Holacanthus limbaughi* Baldwin, 1963	25.00	181.90	0.0116	2.60	0.54	23.20
b	*Microspathodon dorsalis* (Gill, 1862)	31.00	293.81	0.0099	2.10	1.10	12.28
b	*Naso annulatus* (Quoy & Gaimard, 1825)	100.00	5806.90	0.0058	2.10	0.43	6.50
b	*Naso hexacanthus* (Bleeker, 1855)	75.00	2481.60	0.0059	3.10	0.46	18.60
b	*Ophioblennius steindachneri* Jordan & Evermann, 1898	18.00	31.39	0.0054	2.70	1.65	10.50
b	*Ostracion meleagris* Shaw, 1796	25.00	181.90	0.0116	2.70	1.11	14.70
b	*Thalassoma virens* Gilbert, 1890	30.00	312.60	0.0116	3.00	0.62	20.70
c	*Mugil cephalus* Linnaeus, 1758	100.00	21000.00	0.0210	2.50	0.57	11.10
c	*Naso lituratus* (Forster, 1801)	46.00	2058.40	0.0211	2.30	0.75	5.20
c	*Nicholsina denticulata (Evermann & Radcliffe, 1917)*	32.00	685.00	0.0209	2.00	1.10	8.60
c	*Prionurus punctatus* Gill, 1862	60.00	5612.90	0.0260	2.00	0.48	4.90
c	*Scarus rubroviolaceus* Bleeker, 1847	70.00	7412.22	0.0216	2.00	1.04	7.90
d	*Acanthurus xanthopterus* Valenciennes, 1835	70.00	6071.00	0.0177	2.90	0.54	18.00
d	*Arothron hispidus* (Linnaeus, 1758)	50.00	3385.90	0.0271	3.24	0.62	19.40
d	*Holacanthus passer* Valenciennes, 1846	35.60	1099.70	0.0244	2.61	0.32	23.80
d	*Kyphosus elegans* (Peters, 1869)	53.00	3314.53	0.0223	2.94	0.45	27.30
d	*Pomacanthus zonipectus* (Gill, 1862)	46.00	1672.18	0.0172	3.10	0.31	16.40
d	*Scorpaenodes xyris* (Jordan & Gilbert, 1882)	15.00	54.60	0.0162	3.00	0.74	21.40
e	*Acanthurus nigricans* (Linnaeus, 1758)	21.30	226.50	0.0234	2.00	1.45	39.30
e	*Chaetodon humeralis* Günther, 1860	25.40	447.13	0.0273	2.70	1.20	38.10
e	*Microspathodon bairdii* (Gill, 1862)	25.00	486.26	0.0311	2.50	1.30	33.80
f	*Chaenomugil proboscideus* (Günther, 1861)	22.00	124.90	0.0117	2.00	1.02	28.40
f	*Ctenochaetus marginatus* (Valenciennes, 1835)	27.00	229.10	0.0116	2.00	1.02	25.10
g	*Kyphosus vaigiensis (Quoy & Gaimard, 1825)*	45.00	2027.01	0.0222	2.00	0.34	30.10
g	*Scarus compressus* (Osburn & Nichols, 1916)	68.00	7086.28	0.0225	2.00	0.55	16.60
g	*Scarus ghobban* Forsskål, 1775	90.00	11045.00	0.0152	2.25	0.60	19.70
g	*Scarus perrico* Jordan & Gilbert, 1882	76.00	9943.30	0.0227	2.00	0.49	17.70
h	*Acanthemblemaria macrospilus* Brock, 1940	6.35	1.55	0.0061	3.40	3.04	29.80
h	*Apogon retrosella* (Gill, 1862)	10.16	18.86	0.0180	3.50	2.83	23.40
h	*Canthigaster punctatissima* (Günther, 1870)	9.00	11.98	0.0164	3.10	3.07	7.80

Table S2 (continue). Functional traits of each functional group (FG) and species. L_{max} corresponds to the maximum fish size reported (cm); W_{max} the maximum fish wet weight reported (g); Size = W_{max}/L_{max}^3 (Johnstone 1912); TL trophic level; P/B production/biomass rate (year^{-1}) and; Q/B consumption/biomass rate (year^{-1}). L_{max}, W_{max}, TL, and Q/B were obtained from Froese and Pauly (2025).

FG	Species	L_{max}	W_{max}	Size	TL	P/B	Q/B
h	*Chromis alta* Greenfield & Woods, 1980	13.00	26.30	0.0120	3.40	2.07	15.60
h	*Cirrhitichthys oxycephalus* (Bleeker, 1855)	10.00	18.82	0.0188	4.00	2.22	17.30
h	*Malacoctenus ebisui* Springer, 1959	6.50	2.24	0.0082	3.50	2.88	22.20
h	*Malacoctenus hubbsi* Springer, 1959	9.00	6.56	0.0090	3.50	2.29	17.50
h	*Naucrates ductor* (Linnaeus, 1758)	70.00	1192.90	0.0035	4.00	2.70	24.30
h	*Pseudogramma axelrodi* Allen & Robertson, 1995	6.10	2.90	0.0128	3.00	3.50	9.90
i	*Aetobatus laticeps* (Euphrasen, 1790)	330.00	230000.00	0.0064	3.20	0.31	6.10
i	*Apterichtus equatorialis* (Myers & Wade, 1941)	27.00	20.01	0.0010	3.78	1.21	23.70
i	*Caranx melampygus* Cuvier, 1833	117.00	17378.50	0.0109	4.50	0.36	4.10
i	*Cephalopholis panamensis* (Steindachner, 1876)	31.00	382.30	0.0128	3.50	0.52	5.50
i	*Decapterus macarellus* (Cuvier, 1833)	46.00	231.60	0.0024	4.00	2.53	8.60
i	*Diodon hystrix* Linnaeus, 1758	91.00	2800.00	0.0037	3.61	0.27	6.50
i	*Echidna nebulosa* (Ahl, 1789)	100.00	1342.85	0.0013	4.00	0.25	4.90
i	*Elagatis bipinnulata* (Quoy & Gaimard, 1825)	180.00	10769.80	0.0018	4.27	0.47	6.10
i	*Elops affinis* Regan, 1909	91.00	8226.00	0.0109	4.05	0.37	3.60
i	*Fistularia commersonii* Rüppell, 1838	160.00	2293.76	0.0006	4.28	0.72	4.10
i	*Ginglymostoma unami* (Bonnaterre, 1788)	430.00	444033.30	0.0056	4.20	0.10	1.30
i	*Gymnomuraena zebra* (Shaw, 1797)	150.00	4529.09	0.0013	3.40	0.17	3.80
i	*Gymnothorax buroensis* (Bleeker, 1857)	35.00	88.32	0.0021	3.80	0.61	9.20
i	*Gymnothorax castaneus* (Jordan & Gilbert, 1883)	150.00	5022.85	0.0015	4.00	0.17	3.80
i	*Haemulon scudderi* Gill, 1862	35.00	490.00	0.0114	4.20	0.64	8.50
i	*Haemulon sexfasciatum* Gill, 1862	71.00	2260.00	0.0063	4.20	0.33	6.70
i	*Hoplopagrus guntherii* Gill, 1862	92.00	8492.80	0.0109	3.80	0.30	4.80
i	*Kyphosus ocyurus* (Jordan & Gilbert, 1882)	59.00	2293.00	0.0112	3.50	0.40	5.60
i	*Lutjanus guttatus* (Steindachner, 1869)	80.00	1310.00	0.0026	3.83	0.66	5.60
i	*Lutjanus novemfasciatus* Gill, 1862	170.00	35700.00	0.0073	4.10	0.18	9.40
i	*Muraena lentiginosa* Jenyns, 1842	61.00	317.81	0.0014	3.90	0.40	12.90
i	*Myrichthys xysturus Jordan & Gilbert, 1882*	74.00	43.08	0.0001	3.52	0.54	10.90
i	*Paraconger californiensis* Kanazawa, 1961	60.00	357.57	0.0017	4.03	0.54	9.30
i	*Plagiotremus azaleus* (Jordan & Bollman, 1890)	10.00	6.33	0.0063	4.50	1.69	11.30
i	*Seriola rivoliana* Valenciennes, 1833	160.00	42673.70	0.0104	4.45	0.25	2.50
i	*Synodus lacertinus* Gilbert, 1890	20.00	68.41	0.0086	4.20	1.52	12.90
i	*Trachinotus rhodopus* Gill, 1863	61.00	2524.40	0.0111	4.00	0.48	4.50
i	*Tylosurus pacificus* (Steindachner, 1876)	82.50	1184.56	0.0021	4.33	0.50	20.90
i	*Urobatis concentricus* Osburn & Nichols, 1916	48.00	1206.00	0.0109	3.30	0.24	7.20
i	*Urobatis halleri* (Cooper, 1863)	58.00	1360.00	0.0070	3.20	0.17	8.00
j	*Azurina atrilobata (Gill, 1862)*	13.00	40.18	0.0183	3.40	1.31	17.10

j	*Sargocentron suborbitale* (Gill, 1863)	25.40	314.02	0.0192	3.50	1.32	18.20
j	*Sphoeroides lobatus* (Steindachner, 1870)	25.00	277.22	0.0177	3.43	0.99	22.20

Table S2 (continue). Functional traits of each functional group (FG) and species. L_{max} corresponds to the maximum fish size reported (cm); W_{max} the maximum fish wet weight reported (g); Size = W_{max}/L_{max}^3 (Johnstone 1912); TL trophic level; P/B production/biomass rate (year^{-1}) and; Q/B consumption/biomass rate (year^{-1}). L_{max}, W_{max}, TL, and Q/B were obtained from Froese and Pauly (2025).

FG	Species	L_{max}	W_{max}	Size	TL	P/B	Q/B
j	*Stethojulis bandanensis* (Bleeker, 1851)	15.00	63.70	0.0189	3.20	1.17	13.00
k	*Alphestes immaculatus* Breder, 1936	30.00	418.43	0.0155	3.50	0.75	10.10
k	*Diodon holocanthus* Linnaeus, 1758	50.00	1850.49	0.0148	3.31	1.07	7.00
k	*Forcipiger flavissimus* Jordan & McGregor, 1898	22.00	124.90	0.0117	3.10	1.35	11.40
k	*Haemulon steindachneri* (Jordan & Gilbert, 1882)	30.00	300.00	0.0111	3.50	0.68	9.10
k	*Halichoeres chierchiae* DiCaporiacco, 1948	17.50	81.87	0.0153	3.53	1.03	14.00
k	*Halichoeres notospilus* (Günther, 1864)	25.40	244.49	0.0149	3.52	0.73	11.20
k	*Parapsettus panamensis* (Steindachner, 1876)	30.00	315.92	0.0117	3.50	0.80	9.30
k	*Pontinus vaughani* Barnhart & Hubbs, 1946	43.30	986.10	0.0121	3.50	0.85	15.50
k	*Thalassoma grammaticum* Gilbert, 1890	32.00	472.50	0.0144	3.50	0.58	9.70
k	*Thalassoma lucasanum* (Gill, 1862)	15.00	49.71	0.0147	3.45	1.10	15.70
k	*Uropterygius macrocephalus* (Bleeker, 1864)	48.00	1170.00	0.0106	3.50	0.51	16.00
l	*Anisotremus interruptus* (Gill, 1862)	51.00	3570.00	0.0269	3.50	0.33	5.60
l	*Arothron meleagris* (Anonymous, 1798)	50.00	2133.00	0.0171	3.40	0.62	7.40
l	*Balistes polylepis* Steindachner, 1876	76.00	7406.33	0.0169	3.30	0.32	6.70
l	*Bodianus diplotaenia* (Gill, 1862)	76.00	9000.00	0.0205	3.40	0.21	5.80
l	*Cantherines dumerilii* (Hollard, 1854)	38.00	1045.40	0.0191	3.07	0.58	7.40
l	*Caranx caballus* Günther, 1868	55.00	2810.00	0.0169	4.10	0.56	7.80
l	*Caranx caninus* Günther, 1867	101.00	17700.00	0.0172	3.90	0.31	3.30
l	*Carcharhinus albimarginatus* (Rüppell, 1837)	200.00	162000.00	0.0203	4.20	0.17	1.40
l	*Cirrhitus rivulatus* Valenciennes, 1846	60.00	4160.00	0.0193	4.02	0.60	6.00
l	*Epinephelus labriformis* (Jenyns, 1840)	60.00	4919.63	0.0228	4.00	0.47	8.80
l	*Haemulon flaviguttatum* Gill, 1862	42.00	1319.91	0.0178	4.20	0.30	7.80
l	*Halichoeres dispilus* (Günther, 1864)	25.00	244.50	0.0156	3.85	0.73	11.30
l	*Halichoeres nicholsi* Jordan & Gilbert, 1882)	38.00	883.16	0.0161	4.10	0.50	8.80
l	*Heteropriacanthus cruentatus* (Lacepède, 1801)	50.70	2018.00	0.0155	3.60	0.67	4.20
l	*Kuhlia mugil* (Forster, 1801)	40.00	725.10	0.0113	3.80	0.90	7.90
l	*Lutjanus inermis* (Peters, 1869)	34.00	604.92	0.0154	3.83	0.77	3.30
l	*Mulloidichthys dentatus* (Gill, 1862)	31.00	444.76	0.0149	3.70	0.66	6.60
l	*Cephalopholis colonus* (Valenciennes, 1846)	35.60	674.42	0.0149	3.80	0.64	10.10
l	*Rypticus bicolor* Valenciennes, 1846	28.00	340.14	0.0155	4.10	0.80	11.20
l	*Sufflamen verres* (Gilbert & Starks, 1904)	40.00	1671.88	0.0261	3.30	0.64	8.50
m	*Johnrandallia nigrirostris* (Gill, 1862)	20.00	205.16	0.0256	3.00	1.49	28.50
m	*Myripristis leiognathus* Valenciennes, 1846	18.00	163.77	0.0281	3.10	1.81	18.60
m	*Plectrypops lima* (Valenciennes, 1831)	16.00	126.60	0.0309	3.50	2.02	26.60
n	*Haemulon maculicauda* (Gill, 1862)	30.00	557.00	0.0206	4.20	0.35	25.40
n	*Lutjanus viridis* (Valenciennes, 1846)	30.00	312.60	0.0116	4.16	0.87	25.40

n	*Microlepidotus brevipinnis* (Steindachner, 1869)	40.00	725.00	0.0113	3.55	0.58	28.20

Table S2 (continue). Functional traits of each functional group (FG) and species. L_{max} corresponds to the maximum fish size reported (cm); W_{max} the maximum fish wet weight reported (g); Size = W_{max}/L_{max}^3 (Johnstone 1912); TL trophic level; P/B production/biomass rate ($year^{-1}$) and; Q/B consumption/biomass rate ($year^{-1}$). L_{max}, W_{max}, TL, and Q/B were obtained from Froese and Pauly (2025).

FG	Species	L_{max}	W_{max}	Size	TL	P/B	Q/B
n	*Scorpaena mystes* Jordan & Starks, 1895	45.70	1848.53	0.0194	4.04	0.31	34.40
n	*Serranus psittacinus* Valenciennes, 1846	18.00	73.93	0.0127	4.04	1.21	30.30
o	*Abudefduf declivifrons* (Gill, 1862)	18.00	108.30	0.0186	2.95	1.64	49.10
o	*Abudefduf troschelii* (Gill, 1862)	20.00	54.97	0.0069	3.00	0.98	49.10
o	*Acanthurus triostegus* (Linnaeus, 1758)	27.00	268.38	0.0136	2.80	1.92	38.20
o	*Apogon pacificus* (Herre, 1935)	10.00	18.86	0.0189	3.40	2.83	41.40
o	*Bathygobius lineatus* (Jenyns, 1841)	12.00	42.50	0.0246	3.00	6.13	31.20
o	*Elacatinus puncticulatus* (Ginsburg, 1938)	4.40	0.80	0.0094	3.50	3.18	71.90
o	*Entomacrodus chiostictus* (Jordan & Gilbert, 1882)	7.50	5.10	0.0121	2.00	2.21	54.50
o	*Novaculichthys taeniourus* (Lacepède, 1801)	30.00	805.60	0.0298	3.30	0.65	34.80
o	*Pseudobalistes naufragium* (Jordan & Starks, 1895)	100.00	21141.70	0.0211	3.40	0.27	54.00
o	*Stegastes acapulcoensis* (Fowler, 1944)	17.00	133.21	0.0271	2.00	2.09	48.50
o	*Stegastes flavilatus* (Gill, 1862)	10.00	28.42	0.0284	2.00	2.51	48.90
o	*Stegastes leucorus* (Gilbert, 1892)	10.00	28.42	0.0284	3.00	0.20	49.90
o	*Stegastes rectifraenum* (Gill, 1862)	10.00	28.42	0.0284	2.00	1.80	50.90
o	*Xyrichtys wellingtoni* Allen & Robertson, 1995	7.20	4.60	0.0123	3.50	3.10	49.10

Table S3. Functional indices at the transect level by zone and site. CLI: Clipperton Atoll of the Oceanic zone (O); IMR: Islas Marías, ISA: Isla Isabel, and MAR: Islas Marietas of the Coastal Influence zone (CI); and CHA: Chamela Bay, CAR: Carrizales, and BOQ: La Boquita of the Coastal zone (C).

Zone	Site	S_f	J'_f	H'_f	D_f	FRic	FEve	FDiv	FDis	CWM (Size)	CWM (TL)	CWM (PB)	CWM (QB)
O	CLI	8	0.657	1.366	0.295	0.101	0.608	0.759	0.427	0.011	2.551	0.977	15.319
O	CLI	7	0.597	1.162	0.387	0.041	0.112	0.603	0.313	0.017	2.504	1.032	9.626
O	CLI	9	0.834	1.832	0.144	0.060	0.690	0.676	0.451	0.014	3.125	1.044	14.717
O	CLI	9	0.846	1.860	0.167	0.107	0.216	0.827	0.534	0.015	3.344	1.687	13.242
O	CLI	10	0.741	1.707	0.197	0.052	0.452	0.705	0.505	0.016	3.060	2.007	15.932
O	CLI	11	0.797	1.911	0.158	0.116	0.166	0.677	0.376	0.012	3.278	1.103	14.829
O	CLI	9	0.457	1.005	0.569	0.090	0.552	0.915	0.522	0.023	3.304	2.387	25.360
O	CLI	8	0.555	1.154	0.453	0.027	0.434	0.830	0.436	0.020	3.174	1.136	18.133
O	CLI	9	0.584	1.283	0.369	0.039	0.372	0.900	0.443	0.021	3.138	2.075	15.521
O	CLI	6	0.337	0.603	0.732	0.020	0.040	0.639	0.393	0.012	2.555	1.241	16.889
O	CLI	5	0.678	1.092	0.416	0.141	0.214	0.875	0.665	0.011	3.432	2.142	16.263
O	CLI	7	0.571	1.110	0.397	0.057	0.590	0.706	0.524	0.017	2.433	1.730	16.210
O	CLI	8	0.728	1.515	0.294	0.075	0.563	0.776	0.671	0.015	2.775	2.367	19.031
O	CLI	8	0.637	1.324	0.298	0.132	0.417	0.942	0.435	0.007	3.595	1.934	8.803
O	CLI	7	0.872	1.697	0.158	0.102	0.352	0.821	0.664	0.017	3.202	2.209	14.501
O	CLI	9	0.606	1.331	0.319	0.087	0.258	0.953	0.469	0.016	3.314	2.246	13.309
O	CLI	10	0.313	0.721	0.715	0.102	0.474	0.972	0.451	0.019	3.633	1.994	18.434
O	CLI	8	0.752	1.565	0.208	0.053	0.295	0.637	0.310	0.012	3.519	0.976	11.803
CI	IMR	11	0.582	1.396	0.352	0.113	0.470	0.852	0.421	0.022	2.621	0.920	15.974
CI	IMR	10	0.845	1.947	0.028	0.090	0.404	0.824	0.506	0.021	3.049	0.831	24.268
CI	IMR	8	0.783	1.629	0.001	0.046	0.359	0.554	0.277	0.020	3.495	0.889	15.885
CI	IMR	9	0.812	1.784	0.001	0.032	0.504	0.744	0.364	0.020	2.946	0.963	15.588
CI	IMR	8	0.834	1.734	0.108	0.041	0.368	0.855	0.483	0.021	3.093	0.661	26.494
CI	IMR	11	0.735	1.762	0.191	0.068	0.540	0.883	0.456	0.018	3.082	0.721	15.221
CI	IMR	10	0.843	1.941	0.052	0.023	0.748	0.865	0.424	0.018	3.106	0.949	19.189
CI	IMR	10	0.862	1.984	0.105	0.138	0.489	0.881	0.534	0.014	3.177	0.739	14.119
CI	IMR	11	0.605	1.450	0.342	0.071	0.703	0.859	0.390	0.021	2.445	0.807	13.340
CI	IMR	12	0.715	1.776	0.185	0.140	0.366	0.854	0.472	0.018	2.787	0.980	26.737
CI	IMR	9	0.826	1.814	0.121	0.031	0.682	0.752	0.424	0.019	2.429	1.185	23.326
CI	IMR	13	0.503	1.290	0.441	0.146	0.391	0.878	0.359	0.024	2.327	0.833	13.140
CI	IMR	10	0.703	1.618	0.240	0.032	0.609	0.822	0.369	0.021	2.510	1.147	17.040
CI	IMR	7	0.565	1.099	0.388	0.022	0.458	0.797	0.343	0.022	2.225	1.009	16.994
CI	IMR	10	0.676	1.557	0.252	0.065	0.440	0.811	0.422	0.019	2.407	1.035	19.386
CI	IMR	7	0.652	1.270	0.071	0.036	0.317	0.796	0.365	0.015	3.708	0.737	15.127
CI	IMR	7	0.699	1.361	0.216	0.019	0.695	0.891	0.423	0.012	3.544	0.633	14.523
CI	IMR	6	0.725	1.299	0.110	0.009	0.624	0.643	0.261	0.017	3.880	0.768	15.104
CI	IMR	7	0.327	0.636	0.692	0.034	0.396	0.890	0.203	0.021	2.291	0.962	9.946

CI	IMR	8	0.800	1.664	0.001	0.026	0.700	0.867	0.509	0.022	2.702	1.697	33.221
CI	IMR	10	0.648	1.492	0.252	0.059	0.638	0.693	0.373	0.019	2.898	0.634	14.482

Table S3 (continue). Functional indices at the transect level by zone and site. CLI: Clipperton Atoll of the Oceanic zone (O); IMR: Islas Marías, ISA: Isla Isabel, and MAR: Islas Marietas of the Coastal Influence zone (CI); and CHA: Chamela Bay, CAR: Carrizales, and BOQ: La Boquita of the Coastal zone (C).

Zone	Site	S_f	J'_f	H'_f	D_f	FRic	FEve	FDiv	FDis	CWM (Size)	CWM (TL)	CWM (PB)	CWM (QB)
CI	IMR	7	0.525	1.021	0.433	0.037	0.419	0.904	0.446	0.021	2.826	0.631	13.377
CI	IMR	10	0.395	0.909	0.614	0.114	0.105	0.766	0.291	0.015	3.932	0.611	19.398
CI	IMR	9	0.723	1.588	0.238	0.075	0.683	0.795	0.450	0.017	3.369	0.647	21.074
CI	IMR	11	0.610	1.462	0.358	0.112	0.624	0.814	0.392	0.016	3.546	0.747	19.279
CI	IMR	10	0.510	1.174	0.397	0.088	0.188	0.551	0.261	0.017	3.347	0.617	16.282
CI	IMR	9	0.643	1.412	0.226	0.096	0.467	0.829	0.444	0.021	2.758	1.018	17.368
CI	IMR	11	0.539	1.294	0.391	0.139	0.468	0.933	0.505	0.018	3.115	0.681	12.445
CI	IMR	10	0.670	1.542	0.279	0.083	0.458	0.913	0.415	0.015	3.633	0.553	13.936
CI	IMR	8	0.315	0.655	0.726	0.039	0.517	0.985	0.067	0.006	4.159	0.148	2.403
CI	ISA	9	0.548	1.204	0.422	0.111	0.336	0.987	0.207	0.019	3.888	0.596	10.091
CI	ISA	7	0.398	0.775	0.529	0.037	0.193	0.800	0.378	0.029	2.289	0.781	11.956
CI	ISA	6	0.520	0.932	0.449	0.027	0.457	0.624	0.271	0.020	2.452	0.877	13.811
CI	ISA	5	0.693	1.116	0.375	0.014	0.530	0.720	0.425	0.014	3.035	0.810	30.604
CI	ISA	6	0.663	1.188	0.385	0.021	0.620	0.539	0.267	0.019	2.792	0.721	16.681
CI	ISA	8	0.143	0.298	0.873	0.042	0.429	0.774	0.043	0.026	2.012	0.495	5.825
CI	ISA	8	0.628	1.306	0.322	0.057	0.629	0.773	0.366	0.016	2.694	1.430	27.499
CI	ISA	6	0.416	0.745	0.654	0.028	0.706	0.897	0.367	0.022	2.276	0.836	14.322
CI	ISA	8	0.141	0.292	0.888	0.067	0.457	0.959	0.203	0.025	2.151	0.566	9.214
CI	ISA	6	0.403	0.723	0.530	0.070	0.404	0.557	0.436	0.019	2.482	1.313	24.790
CI	ISA	12	0.510	1.268	0.407	0.154	0.370	0.835	0.361	0.023	3.797	0.493	20.509
CI	ISA	9	0.364	0.800	0.650	0.070	0.361	0.731	0.224	0.021	3.979	0.369	23.139
CI	ISA	10	0.473	1.089	0.460	0.054	0.618	0.768	0.416	0.029	3.354	0.463	12.141
CI	ISA	10	0.603	1.387	0.308	0.043	0.378	0.626	0.386	0.024	3.467	0.479	14.143
CI	ISA	11	0.702	1.684	0.223	0.058	0.400	0.697	0.366	0.022	3.110	0.699	20.279
CI	ISA	8	0.550	1.143	0.434	0.064	0.363	0.802	0.380	0.021	3.665	0.396	17.753
CI	ISA	11	0.660	1.583	0.272	0.100	0.306	0.904	0.456	0.021	3.342	0.382	8.439
CI	ISA	9	0.493	1.082	0.512	0.107	0.611	0.847	0.387	0.017	2.739	0.433	7.110
CI	ISA	10	0.782	1.802	0.178	0.067	0.298	0.752	0.463	0.019	2.923	0.663	11.226
CI	ISA	10	0.646	1.487	0.296	0.028	0.664	0.851	0.455	0.025	3.109	0.459	9.361
CI	ISA	10	0.504	1.161	0.420	0.117	0.256	0.594	0.303	0.020	3.263	0.537	17.718
CI	ISA	11	0.600	1.440	0.319	0.207	0.270	0.706	0.378	0.020	3.472	0.583	21.534
CI	ISA	12	0.629	1.564	0.262	0.163	0.419	0.884	0.485	0.026	2.992	0.653	14.232
CI	ISA	8	0.638	1.327	0.282	0.045	0.074	0.818	0.431	0.025	3.138	0.484	9.397
CI	ISA	9	0.649	1.426	0.278	0.118	0.174	0.637	0.357	0.020	3.603	0.437	14.874
CI	ISA	7	0.542	1.054	0.408	0.017	0.545	0.710	0.356	0.025	3.629	0.567	11.979

CI	ISA	13	0.759	1.947	0.151	0.249	0.380	0.704	0.417	0.018	3.393	0.778	24.224
CI	ISA	11	0.483	1.158	0.453	0.145	0.453	0.885	0.147	0.018	3.756	0.331	5.261
CI	ISA	11	0.686	1.644	0.236	0.102	0.519	0.852	0.486	0.017	3.014	0.740	27.402
CI	ISA	10	0.404	0.930	0.479	0.068	0.259	0.758	0.247	0.019	2.238	0.920	12.592

Table S3 (continue). Functional indices at the transect level by zone and site. CLI: Clipperton Atoll of the Oceanic zone (O); IMR: Islas Marías, ISA: Isla Isabel, and MAR: Islas Marietas of the Coastal Influence zone (CI); and CHA: Chamela Bay, CAR: Carrizales, and BOQ: La Boquita of the Coastal zone (C).

Zone	Site	S_f	J'_f	H'_f	D_f	FRic	FEve	FDiv	FDis	CWM (Size)	CWM (TL)	CWM (PB)	CWM (QB)
CI	ISA	11	0.594	1.424	0.355	0.197	0.463	0.858	0.450	0.023	2.848	0.570	19.556
CI	ISA	12	0.653	1.623	0.266	0.075	0.589	0.934	0.408	0.021	2.939	0.638	16.272
CI	ISA	11	0.554	1.328	0.360	0.129	0.534	0.925	0.400	0.024	3.567	0.419	18.661
CI	ISA	13	0.532	1.364	0.436	0.013	0.598	0.763	0.173	0.018	3.627	0.575	19.234
CI	ISA	7	0.380	0.739	0.657	0.070	0.092	0.792	0.300	0.021	4.039	0.383	23.153
CI	ISA	10	0.538	1.238	0.389	0.025	0.495	0.838	0.471	0.024	2.224	0.735	12.093
CI	ISA	7	0.583	1.134	0.293	0.012	0.519	0.843	0.181	0.019	2.494	1.663	32.503
CI	ISA	7	0.465	0.904	0.452	0.002	0.392	0.883	0.210	0.024	2.065	0.555	11.779
CI	ISA	3	0.273	0.300	0.863	0.021	0.155	0.948	0.084	0.023	2.119	0.725	20.977
CI	ISA	8	0.438	0.911	0.568	0.208	0.062	0.749	0.405	0.012	3.990	0.427	4.785
CI	ISA	12	0.731	1.817	0.211	0.268	0.102	0.834	0.538	0.019	3.262	0.549	11.856
CI	ISA	13	0.580	1.489	0.304	0.078	0.355	0.768	0.512	0.028	3.261	0.579	9.676
CI	ISA	7	0.679	1.321	0.281	0.112	0.429	0.787	0.499	0.018	3.085	0.842	24.882
CI	ISA	9	0.634	1.392	0.292	0.203	0.477	0.705	0.437	0.017	2.746	0.877	15.337
CI	ISA	11	0.742	1.779	0.191	0.197	0.463	0.858	0.450	0.025	2.526	0.790	17.648
CI	MAR	8	0.616	1.281	0.321	0.062	0.396	0.938	0.334	0.017	3.531	0.720	9.963
CI	MAR	12	0.650	1.615	0.256	0.168	0.356	0.876	0.399	0.021	3.549	0.547	14.214
CI	MAR	11	0.704	1.687	0.202	0.115	0.555	0.764	0.384	0.021	3.557	0.602	16.215
CI	MAR	10	0.769	1.772	0.195	0.185	0.250	0.870	0.497	0.019	3.501	0.486	28.559
CI	MAR	10	0.536	1.233	0.396	0.189	0.428	0.964	0.545	0.021	2.666	0.581	25.982
CI	MAR	10	0.446	1.027	0.546	0.147	0.264	0.911	0.382	0.023	2.615	0.575	10.382
CI	MAR	12	0.300	0.747	0.676	0.094	0.287	0.930	0.166	0.024	2.089	0.579	7.509
CI	MAR	8	0.436	0.906	0.558	0.086	0.086	0.964	0.371	0.021	2.251	0.835	11.948
CI	MAR	6	0.603	1.080	0.273	0.021	0.414	0.949	0.474	0.018	2.226	1.556	30.286
CI	MAR	6	0.485	0.868	0.456	0.010	0.190	0.982	0.436	0.016	2.544	1.137	17.580
CI	MAR	7	0.524	1.019	0.474	0.055	0.087	0.952	0.396	0.014	2.459	1.042	20.225
CI	MAR	6	0.596	1.068	0.439	0.036	0.391	0.953	0.485	0.019	3.392	0.802	22.014
CI	MAR	10	0.615	1.417	0.317	0.071	0.608	0.667	0.266	0.016	3.586	0.720	12.805
CI	MAR	10	0.611	1.407	0.377	0.137	0.290	0.532	0.169	0.015	3.600	0.671	9.223
CI	MAR	9	0.817	1.794	0.132	0.039	0.310	0.867	0.490	0.018	2.872	1.096	19.695
CI	MAR	6	0.522	0.935	0.382	0.018	0.530	0.621	0.191	0.017	3.820	0.574	9.902
CI	MAR	7	0.680	1.323	0.336	0.053	0.402	0.659	0.245	0.017	3.592	0.581	9.006
CI	MAR	8	0.571	1.187	0.425	0.064	0.378	0.731	0.314	0.020	3.948	0.429	21.500

CI	MAR	9	0.395	0.868	0.572	0.084	0.423	0.904	0.439	0.020	3.069	0.474	7.205
CI	MAR	11	0.696	1.669	0.230	0.155	0.297	0.825	0.366	0.017	3.625	0.662	15.378
CI	MAR	9	0.790	1.735	0.141	0.050	0.551	0.704	0.352	0.021	3.351	0.649	11.222
CI	MAR	5	0.533	0.858	0.452	0.020	0.119	0.545	0.297	0.018	3.226	1.113	12.726
CI	MAR	5	0.727	1.171	0.150	0.014	0.522	0.635	0.267	0.022	3.524	0.734	12.240
CI	MAR	9	0.619	1.359	0.324	0.047	0.295	0.757	0.276	0.020	3.797	0.652	17.378

Table S3 (continue). Functional indices at a transect level by Zone and Sites. CLI: Clipperton Atoll of the Oceanic zone (O); IMR: Islas Marías, ISA: Isla Isabel, and MAR: Islas Marietas of the Coastal Influence zone (CI); and CHA: Chamela Bay, CAR: Carrizales, and BOQ: La Boquita of the Coastal zone (C).

Zone	Site	S_f	J'_f	H'_f	D_f	FRic	FEve	FDiv	FDis	CWM (Size)	CWM (TL)	CWM (PB)	CWM (QB)
CI	MAR	10	0.656	1.510	0.247	0.039	0.425	0.706	0.379	0.020	2.826	0.820	10.970
CI	MAR	6	0.580	1.039	0.001	0.012	0.357	0.692	0.432	0.019	3.265	1.091	17.591
CI	MAR	9	0.685	1.506	0.292	0.079	0.027	0.756	0.344	0.018	3.636	0.621	14.835
CI	MAR	12	0.550	1.368	0.347	0.140	0.336	0.919	0.451	0.021	2.882	0.554	11.790
CI	MAR	11	0.500	1.199	0.437	0.115	0.359	0.951	0.437	0.022	2.772	0.557	11.016
CI	MAR	8	0.602	1.252	0.418	0.025	0.570	0.940	0.602	0.023	2.703	0.953	21.398
C	CHA	8	0.687	1.428	0.267	0.131	0.346	0.935	0.355	0.011	2.857	0.581	10.616
C	CHA	7	0.692	1.347	0.106	0.029	0.441	0.916	0.517	0.023	2.697	1.604	34.172
C	CHA	9	0.727	1.597	0.168	0.033	0.503	0.864	0.538	0.020	2.576	1.524	30.646
C	CHA	7	0.687	1.337	0.185	0.038	0.566	0.841	0.555	0.022	3.168	1.230	24.098
C	CHA	9	0.772	1.697	0.067	0.033	0.563	0.865	0.511	0.021	3.142	1.162	23.710
C	CHA	9	0.721	1.584	0.236	0.056	0.513	0.805	0.508	0.022	2.620	1.074	19.684
C	CHA	6	0.424	0.760	0.594	0.046	0.253	0.847	0.488	0.018	3.290	1.011	21.683
C	CHA	7	0.789	1.535	0.068	0.046	0.670	0.877	0.522	0.015	3.028	1.112	26.271
C	CHA	10	0.864	1.989	0.042	0.084	0.400	0.830	0.481	0.021	2.960	1.075	21.456
C	CHA	7	0.654	1.273	0.001	0.069	0.188	0.835	0.381	0.016	2.509	1.021	19.307
C	CHA	7	0.493	0.960	0.417	0.070	0.185	0.915	0.404	0.015	2.876	0.867	11.488
C	CHA	10	0.631	1.453	0.242	0.117	0.128	0.915	0.437	0.016	2.846	1.005	14.918
C	CHA	9	0.666	1.464	0.044	0.050	0.227	0.975	0.334	0.021	3.421	0.577	14.089
C	CHA	10	0.857	1.972	0.001	0.142	0.197	0.809	0.360	0.017	3.036	0.697	14.589
C	CHA	8	0.684	1.423	0.244	0.053	0.392	0.925	0.544	0.026	2.980	0.761	17.221
C	CHA	6	0.467	0.837	0.368	0.007	0.510	0.940	0.239	0.025	2.173	1.949	43.396
C	CHA	5	0.671	1.080	0.001	0.005	0.088	0.813	0.602	0.020	2.927	1.290	26.275
C	CHA	6	0.797	1.428	0.001	0.012	0.248	0.912	0.550	0.022	2.991	1.106	24.452
C	CAR	7	0.596	1.159	0.406	0.055	0.612	0.893	0.519	0.021	2.617	1.572	35.834
C	CAR	8	0.771	1.604	0.219	0.076	0.627	0.911	0.519	0.018	2.426	1.429	27.069
C	CAR	8	0.713	1.483	0.282	0.053	0.500	0.864	0.513	0.023	2.620	1.531	33.410
C	CAR	7	0.776	1.509	0.229	0.029	0.589	0.876	0.517	0.023	2.733	1.555	34.251
C	CAR	8	0.845	1.758	0.167	0.057	0.309	0.814	0.550	0.022	2.764	1.382	28.344
C	CAR	8	0.690	1.434	0.269	0.033	0.537	0.868	0.539	0.021	2.778	1.368	29.370
C	BOQ	7	0.717	1.395	0.243	0.007	0.420	0.921	0.486	0.024	2.435	1.552	34.348

C	BOQ	8	0.497	1.033	0.464	0.090	0.503	0.967	0.435	0.028	2.131	0.942	17.375
C	BOQ	6	0.560	1.004	0.483	0.003	0.646	0.936	0.340	0.025	2.350	1.879	41.173
C	BOQ	7	0.720	1.400	0.245	0.020	0.602	0.871	0.427	0.025	2.389	1.746	37.119
C	BOQ	6	0.505	0.905	0.528	0.002	0.578	0.945	0.349	0.025	2.336	1.827	40.846
C	BOQ	8	0.698	1.451	0.274	0.005	0.654	0.958	0.332	0.026	2.270	1.758	39.547
C	BOQ	8	0.484	1.007	0.478	0.107	0.423	0.657	0.348	0.020	2.460	0.820	23.448
C	BOQ	7	0.562	1.093	0.329	0.022	0.452	0.778	0.326	0.020	2.970	1.659	41.589
C	BOQ	6	0.575	1.030	0.264	0.070	0.588	0.923	0.317	0.025	2.262	1.922	42.307

Table S3 (continue). Functional indices at a transect level by Zone and Sites. CLI: Clipperton Atoll of the Oceanic zone (O); IMR: Islas Marías, ISA: Isla Isabel, and MAR: Islas Marietas of the Coastal Influence zone (CI); and CHA: Chamela Bay, CAR: Carrizales, and BOQ: La Boquita of the Coastal zone (C).

Zone	Site	S_f	J'_f	H'_f	D_f	FRic	FEve	FDiv	FDis	CWM (Size)	CWM (TL)	CWM (PB)	CWM (QB)
C	BOQ	7	0.763	1.486	0.169	0.031	0.554	0.895	0.587	0.025	2.946	1.292	32.307
C	BOQ	7	0.624	1.214	0.222	0.016	0.369	0.847	0.611	0.025	2.846	1.354	29.688
C	BOQ	9	0.632	1.389	0.264	0.020	0.543	0.892	0.558	0.023	3.042	1.263	33.833
C	BOQ	7	0.698	1.359	0.203	0.015	0.425	0.921	0.533	0.027	2.650	1.527	33.919
C	BOQ	6	0.712	1.277	0.101	0.007	0.597	0.882	0.563	0.025	2.760	1.541	33.005
C	BOQ	8	0.732	1.522	0.008	0.084	0.197	0.916	0.572	0.024	2.838	1.238	30.293
C	BOQ	13	0.644	1.651	0.215	0.133	0.573	0.851	0.569	0.025	2.943	0.975	23.332
C	BOQ	6	0.830	1.488	0.065	0.005	0.327	0.770	0.531	0.023	2.945	1.351	27.218
C	BOQ	7	0.650	1.265	0.001	0.003	0.595	0.905	0.396	0.024	2.382	1.768	38.720
C	BOQ	6	0.564	1.011	0.305	0.004	0.379	0.930	0.363	0.025	2.329	1.789	40.053

References

Johnstone, J. Report on measurements of plaice made during the year 1911. *Proc. Trans. Liverpool. Biol. Soc*. **1912**, 26:85–102.
Froese, R.; Pauly, D. FishBase. www.fishbase.org. **2025**, version (11/2025).