

Table S1. Differences in benthic categories in St Helena showing test statistics, significant values and trends. ANOSIM results are given at the top to indicate the significance of multi-variate groupings and pairwise permutation results are given below for pairwise comparisons for the main benthic components found in St Helena. Note the Bonferroni conversion of  $p$ -values means significant trends are  $p < 0.0055$ .

	Substrate <i>R = Rock</i> <i>B = Boulder</i> <i>M = Maerl</i> <i>S = Sand</i>			Exposure <i>W = Windward</i> <i>L = Leeward</i>			Depth <i>S = Shallow</i> <i>D = Deep</i>			Season <i>W = Winter</i> <i>S = Summer</i>		
	<i>z</i>	<i>p</i>	<i>trend</i>	<i>z</i>	<i>p</i>	<i>trend</i>	<i>z</i>	<i>p</i>	<i>trend</i>	<i>z</i>	<i>p</i>	<i>trend</i>
ANOSIM - <i>R</i>	0.228			0.296			0.0174			0.169		
ANOSIM - <i>p</i>	0.001			0.001			0.217			0.001		
<b><i>Benthic Categories</i></b>	<i>z</i>	<i>p</i>	<i>trend</i>	<i>z</i>	<i>p</i>	<i>trend</i>	<i>z</i>	<i>p</i>	<i>trend</i>	<i>z</i>	<i>p</i>	<i>trend</i>
Calcareous red algae	2.764	0.015	=	- 0.213	0.831	=	1.867	0.062	=	- 2.202	0.028	=
Filamentous red algae	3.906	<0.001	R > B = M	- 5.308	<0.001	W > L	- 0.139	0.89	=	4.706	<0.001	S > W
Harpoonweed	5.397	<0.001	R > B = M	- 5.351	<0.001	W > L	- 0.037	0.971	=	2.023	0.043	=
Dictyota	3.23	0.004	R = M > B	- 2.908	0.004	W > L	1.811	0.07	=	2.781	0.005	S > W
Cyanobacteria	0.925	0.618	=	- 0.074	0.941	=	- 0.774	0.439	=	2.95	0.003	S > W
Crinoid	4.858	<0.001	R = B > M	0.899	0.369	=	- 4.151	<0.001	S > D	0.827	0.408	=
Hydroid	1.705	0.199	=	1.549	0.121	=	0.568	0.57	=	- 2.473	0.013	=
Zoanthid	3.009	0.017	=	- 0.219	0.827	=	- 1.727	0.084	=	- 0.431	0.666	=
Sponge	1.159	0.472	=	2.251	0.024	=	- 0.105	0.917	=	- 3.924	<0.001	W > S

Table S2. Differences in fish species abundance in St Helena showing test statistics, significant values and trends of pairwise permutation test. Note the Bonferroni conversion of *p*-values means significant trends are *p* < 0.0014

Group	Species	Substrate <i>R</i> = Rock <i>B</i> = Boulder <i>M</i> = Maerl <i>S</i> = Sand			Exposure <i>W</i> = Windward <i>L</i> = Leeward			Depth <i>S</i> = Shallow <i>D</i> = Deep			Season <i>W</i> = Winter <i>S</i> = Summer			Abundance		Observations	
		<i>z</i>	<i>p</i>	trend	<i>z</i>	<i>p</i>	trend	<i>z</i>	<i>p</i>	trend	<i>z</i>	<i>p</i>		mean	se	site	survey
Predator	Rock Hind ( <i>Epinephelus adscensionis</i> ) [F]	7.538	<0.001	R > B > M = S	-2.758	0.006	=	- 2.258	0.024	=	4.494	<0.001	S > W	0.78	0.047	100	63.6
Predator	Blackbar Soldierfish ( <i>Myripristis jacobus</i> ) [F]	4.378	<0.001	R > B   M = S	0.696	0.391	=	- 2.612	0.009	=	0.875	0.381	=	1.39	0.196	79.6	36.9
Predator	Squirrelfish ( <i>Holocentrus adscensionis</i> ) [F]	7.879	<0.001	R = B > M = S	2.679	0.007	=	0.447	0.655	=	1.138	0.255	=	1.48	0.126	95.9	63.4
Predator	Glasseye Snapper ( <i>Heteropriacanthus cruentatus</i> ) [F]	5.005	<0.001	R = B > M = S	2.58	0.01	=	- 1.933	0.053	=	2.059	0.039	=	1.75	0.262	81.6	35.1
Predator	Spotted Moray ( <i>Gymnothorax moringa</i> ) [F]	4.436	<0.001	R = B > M = S	0.406	0.685	=	- 0.352	0.725	=	1.45	0.147	=	0.19	0.022	63.3	17
Predator	Brown Moray ( <i>Gymnothorax unicolor</i> )	3.605	0.001	S > B = M   R	-1.804	0.071	=	- 0.249	0.804	=	- 0.114	0.909	=	0.07	0.014	30.6	7.1
Predator	Trumpetfish ( <i>Aulostomus strigosus</i> )	8.611	<0.001	B > R > M = S	4.304	<0.001	L > W	2.067	0.039	=	2.561	0.01	=	1	0.069	100	62.3
Predator	Guelly Jack ( <i>Pseudocaranx dentex</i> )	2.001	0.015	=	NA	NA	NA	0.622	0.534	=	- 0.809	0.418	=	0.33	0.224	38.8	6.3
Predator	Soapfish ( <i>Rypticus saponaceus</i> )	5.8	<0.001	B > M > R = S	3.569	<0.001	L > W	0.237	0.813	=	3.563	<0.001	S > W	0.17	0.015	63.3	31.2
Predator	Red Scorpionfish ( <i>Scorpaena mellissii</i> ) [E]	2.996	0.01	=	2.93	0.003	=	2.239	0.025	=	0.333	0.739	=	0.09	0.016	28.6	8.1
Predator	Spotted Scorpionfish ( <i>Scorpaena plumieri</i> )	2.13	0.113	=	1.107	0.268	=	0.592	0.554	=	- 0.335	0.737	=	0.12	0.018	40.8	11.3
Predator	Diamond Lizardfish ( <i>Synodus synodus</i> )	4.282	<0.001	B = M > R = S	4.0373	<0.001	L > W	0.513	0.608	=	2.46	0.014	=	0.67	0.051	75.5	43.5
Predator	Bluntnose Lizardfish ( <i>Trachinocephalus myops</i> )	4.921	<0.001	S > B = M   R	NA	NA	NA	0.098	0.922	=	0.409	0.683	=	0.1	0.017	28.6	8.1
Roving Herbivore	Parrotfish ( <i>Sparisoma strigatum</i> ) [E]	6.407	<0.001	R = B = M > S	-0.318	0.751	=	3.922	<0.001	S > D	- 0.836	0.403	=	1.45	0.095	100	72.5
Roving Herbivore	Sea Chub ( <i>Kyphosus sectacrix</i> )	5.163	<0.001	R > B = M = S	-4.593	<0.001	W > L	1.877	0.061	=	2.908	0.004	S > W	0.22	0.054	63.3	12
Roving Herbivore	Ocean Surgeonfish ( <i>Acanthurus bahianus</i> )	4.549	<0.001	R = B > M = S	0.832	0.405	=	1.732	0.083	=	1.419	0.156	=	3.22	0.264	100	73.3

Territorial Herbivore	St Helena Gregory ( <i>Stegastes sanctaehelena</i> ) [E]	10.89	<0.001	B > R = M = S	6.592	<0.001	L > W	3.317	<0.001	S > D	0.873	0.383	=	13.18	0.752	100	74.3
Territorial Herbivore	Redlip Blenny ( <i>Ophioblennius atlanticus</i> )	2.898	0.014	=	-2.763	0.006	=	1.288	0.198	=	0.957	0.338	=	0.34	0.05	69.4	15.2
Planktivore	St Helena Butterflyfish ( <i>Chaetodon sanctaehelena</i> ) [E]	3.475	0.002	=	1.138	0.255	=	0.597	0.551	=	1.677	0.094	=	19.66	2.594	100	70.9
Planktivore	St Helena Damsel ( <i>Chromis sanctaehelena</i> ) [E]	2.839	0.017	=	1.325	0.185	=	-4.107	<0.001	D > S	0.718	0.473	=	0.62	0.129	53.1	14.9
Planktivore	Brown Chromis ( <i>Chromis multilineata</i> )	7.395	<0.001	R = B > M = S	1.503	0.133	=	0.631	0.528	=	-1.411	0.158	=	17.8	1.348	95.9	60.7
Omnivore	Sergeant Major ( <i>Abudefduf saxatilis</i> )	2.903	0.014	=	-4.944	<0.001	W > L	-3.586	<0.001	D > S	0.865	0.387	=	1	0.16	85.7	28
Omnivore	St Helena Sea Bream ( <i>Diplodus sargus helenae</i> ) [E]	4.4	<0.001	R > B = M > S	-9.039	<0.001	W > L	-4.875	<0.001	D > S	3.09	0.002	=	1.55	0.163	98	51.8
Omnivore	St Helena Pufferfish ( <i>Canthigaster sanctaehelena</i> ) [E]	7.715	<0.001	R = B = M > S	3.675	<0.001	L > W	-0.119	0.905	=	0.941	0.347	=	0.66	0.034	96	67.8
Omnivore	Black Triggerfish ( <i>Melichtys niger</i> )	7.579	<0.001	R > B   M = S	-5.337	<0.001	W > L	0.604	0.544	=	1.951	0.051	=	0.12	0.027	53.1	9.9
Invertivore	St Helena Wrasse ( <i>Thalassoma sanctaehelena</i> ) [E]	6.879	<0.001	R > B > M = S	-4.07	<0.001	W > L	2.15	0.032	S > D	3.63	<0.001	S > W	2.8	0.164	100	67.3
Invertivore	Marmalade Razorfish ( <i>Xyrichtys blanchardi</i> ) [E]	12.634	<0.001	M > R = B = S	-0.176	0.861	=	NA	NA	NA	0.243	0.808	=	0.18	0.028	63.3	15.7
Invertivore	Island Hogfish ( <i>Bodianus insularis</i> ) [E]	9.067	<0.001	R = B > M > S	1.584	0.113	=	-2.376	0.018	=	1.342	0.18	=	0.99	0.055	100	72
Invertivore	St Helena Flounder ( <i>Bothus mellissi</i> ) [E]	5.578	<0.001	S > R = B = M	NA	NA	NA	1.621	0.105	=	0.928	0.353	=	0.25	0.028	36.7	20.7
Invertivore	Auxillary Spot Cardinalfish ( <i>Apogon axillaris</i> ) [E]	3.112	0.007	=	1.75	0.08	=	-0.247	0.805	=	1.623	0.105	=	0.84	0.215	51	27.5
Invertivore	Hedgehog Butterflyfish ( <i>Prognathodes dichrous</i> ) [E]	1.754	0.248	=	1.613	0.107	=	-0.194	0.846	=	1.322	0.186	=	0.19	0.048	49	20.9
Invertivore	Cowfish ( <i>Acanthostracion notacanthus</i> )	5.683	<0.001	M > R = B > S	4.461	<0.001	L > W	NA	NA	NA	-1.697	0.09	=	0.2	0.017	51	33.5
Invertivore	Hawkfish ( <i>Amblycirrhitus pinos</i> )	7.356	<0.001	R = B > M = S	-1.406	0.16	=	2.074	0.038	=	2.585	0.01	=	1.01	0.076	89.8	45.8
Invertivore	Dragonet ( <i>Helcogramma ascensionis</i> )	2.637	0.031	=	1.041	0.298	=	0.416	0.678	=	1.992	0.046	=	0.5	0.15	49	8.6
Invertivore	Goldspot goby ( <i>Gnatholepis thompsoni</i> )	5.587	<0.001	M > R = B = S	2.071	0.039	=	-0.638	0.523	NA	-1.135	0.256	=	6.86	1.606	63.3	29.6
Invertivore	Goatfish ( <i>Mulloidichthys martinicus</i> )	2.342	0.0482	=	-1.347	0.178	=	-1.573	0.116	=	3.7	<0.001	S > W	0.2	0.043	65.3	14.4

Table S3. Fish species abundance observed in St Helena, showing the family, trophic group and biogeographical range. The mean abundance per 100m<sup>2</sup> is shown for all transects, different substrates and wave exposure, depth and season on rock and boulder transects.

Family	Species	Trophic Group	Range	All	Substrate				Wave Exposure		Depth		Season	
				Transects	Rock	Boulder	Maerl	Sand	Leeward	Windward	Shallow	Deep	Summer	Winter
Acanthuridae	<i>Acanthurus bahianus</i>	Roving Herbivore	Brazil	3.33	3.88	4.44	2.08	1.43	4.43	4.21	4.64	3.65	3.69	2.88
Acanthuridae	<i>Acanthurus coeruleus</i>	Roving Herbivore	Caribbean	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00
Antennariidae	<i>Antennarius striatus</i>	Predator	Circumtropical	0.00	0.00	0.00	0.00	0.01	1.61	0.17	1.22	1.59	0.00	0.01
Apogonidae	<i>Apogon axillaris</i>	Mobile Invertivore	Central Atlantic	0.86	0.09	1.45	0.00	0.17	1.71	0.70	1.59	1.25	1.18	0.47
Aulostomidae	<i>Aulostomus strigosus</i>	Predator	East Atlantic	1.03	0.87	1.57	0.21	0.28	2.29	1.47	1.76	3.15	1.19	0.83
Balistidae	<i>Canthidermis sufflamen</i>	Planktivore	Tropical Atlantic	0.04	0.00	0.06	0.05	0.02	0.94	0.61	0.85	0.93	0.06	0.03
Balistidae	<i>Melichthys niger</i> <i>Platybelone argalus</i>	Omnivore	Circumtropical	0.12	0.90	0.11	0.00	0.00	0.26	0.49	0.25	0.48	0.17	0.06
Belonidae	<i>trachura</i>	Predator	Central Atlantic	0.02	0.00	0.01	0.00	0.05	0.29	0.04	0.23	0.26	0.03	0.00
Blenniidae	<i>Entomacrodus textilis</i>	Territorial Herbivore	Central Atlantic	0.01	0.00	0.01	0.00	0.01	4.72	0.15	4.35	2.10	0.01	0.01
Blenniidae	<i>Ophioblennius atlanticus</i>	Territorial Herbivore	Tropical Atlantic	0.34	0.91	0.48	0.00	0.07	0.03	0.02	0.04	0.00	0.40	0.28
Bothidae	<i>Bothus mellissi</i>	Mobile Invertivore	Central Atlantic	0.26	0.04	0.15	0.24	0.54	0.94	0.36	0.88	0.66	0.28	0.23
Callionymidae	<i>Callionymus bairdi</i>	Mobile Invertivore	Caribbean	0.51	2.04	0.68	0.00	0.01	0.06	0.03	0.05	0.08	0.79	0.17
Carangidae	<i>Caranx crysos</i>	Predator	Tropical Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.01	0.04	0.00	0.00
Carangidae	<i>Caranx lugubris</i>	Predator	Circumtropical	0.01	0.07	0.01	0.00	0.00	29.03	19.65	27.45	26.00	0.02	0.00
Carangidae	<i>Caranx ruber</i>	Predator	West Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carangidae	<i>Decapterus muroadsi</i>	Planktivore	Circumtropical	0.36	0.00	0.25	0.38	0.67	0.92	5.89	1.18	4.20	0.63	0.03
Carangidae	<i>Decapterus tabl</i>	Planktivore	Circumtropical	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.01	0.07	0.00	0.00
Carangidae	<i>Elagatis bipinnulata</i>	Predator	Circumtropical	0.04	0.00	0.03	0.00	0.09	0.01	0.00	0.01	0.00	0.07	0.01
Carangidae	<i>Pseudocaranx dentex</i>	Predator	Circumtropical	0.34	0.10	0.05	0.08	1.09	0.15	0.00	0.14	0.05	0.17	0.54
Carangidae	<i>Seriola rivoliana</i>	Predator	Circumtropical	0.04	0.03	0.04	0.03	0.06	26.88	7.91	25.23	16.28	0.06	0.02
Carangidae	<i>Trachinotus ovatus</i>	Predator	East Atlantic	0.65	1.29	0.27	0.00	1.54	0.01	0.00	0.00	0.01	1.00	0.22
Chaetodontidae	<i>Chaetodon sanctaehelenae</i>	Planktivore	Central Atlantic	20.14	19.34	27.96	4.16	10.93	32.82	22.26	31.76	27.33	24.11	15.36
Chaetodontidae	<i>Prognathodes dichrous</i>	Sessile Invertivore	Central Atlantic	0.19	0.03	0.26	0.25	0.06	0.27	0.09	0.23	0.26	0.25	0.12
Cirrhitidae	<i>Amblycirrhitus pinos</i>	Mobile Invertivore	West Atlantic	1.04	1.74	1.53	0.10	0.25	1.45	1.91	1.64	1.28	1.22	0.82
Diodontidae	<i>Chilomycterus reticulatus</i>	Mobile Invertivore	Circumtropical	0.00	0.00	0.00	0.00	0.00	1.02	0.44	0.38	2.39	0.00	0.00
Gobiidae	<i>Gnatholepis thompsoni</i>	Omnivore	Tropical Atlantic	7.02	0.09	4.19	33.34	3.56	0.27	0.26	0.25	0.33	5.29	9.11
Gobiidae	<i>Priolepis ascensionis</i>	Omnivore	Central Atlantic	0.06	0.00	0.03	0.07	0.12	0.03	0.16	0.03	0.13	0.09	0.02
Holocentridae	<i>Holocentrus adscensionis</i>	Mobile Invertivore	Tropical Atlantic	1.52	1.43	2.43	0.18	0.23	0.06	0.67	0.20	0.15	1.65	1.36
Holocentridae	<i>Myripristis jacobus</i>	Mobile Invertivore	West Atlantic	1.42	2.57	2.21	0.21	0.04	0.01	0.00	0.01	0.00	1.58	1.23
Kyphosidae	<i>Kyphosus sectatrix</i>	Roving Herbivore	Tropical Atlantic	0.23	1.34	0.23	0.01	0.06	0.01	0.00	0.00	0.03	0.38	0.05
Labridae	<i>Bodianus insularis</i>	Mobile Invertivore	Central Atlantic	1.45	1.65	2.17	0.55	0.30	0.16	0.06	0.17	0.03	1.60	1.27
Labridae	<i>Thalassoma</i>	Planktivore	Central Atlantic	9.55	19.15	12.85	1.07	4.08	0.34	0.51	0.34	0.48	12.66	5.81

<i>sanctae-helenae</i>														
Labridae	<i>Xyrichtys blanchardi</i>	Mobile Invertivore	Central Atlantic	0.19	0.02	0.08	1.21	0.02	0.00	0.00	0.00	0.00	0.19	0.19
Labridae	<i>Xyrichtys sanctae-helenae</i>	Mobile Invertivore	Central Atlantic	0.12	0.00	0.01	0.00	0.44	0.00	0.00	0.00	0.00	0.14	0.10
Monacanthidae	<i>Aluterus monoceros</i>	Omnivore	Circumtropical	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00
Monacanthidae	<i>Aluterus scriptus</i>	Omnivore	Circumtropical	0.03	0.05	0.04	0.00	0.00	0.04	0.04	0.04	0.05	0.03	0.01
Mullidae	<i>Mulloidichthys martinicus</i>	Mobile Invertivore	West Atlantic	0.21	0.52	0.28	0.05	0.04	0.38	1.09	0.58	0.36	0.36	0.03
Muraenidae	<i>Enchelycore anatina</i>	Predator	East Atlantic	0.01	0.00	0.02	0.00	0.00	1.12	1.69	1.10	1.62	0.02	0.01
Muraenidae	<i>Gymnothorax miliaris</i>	Predator	West Atlantic	0.01	0.00	0.02	0.00	0.01	0.13	0.04	0.11	0.14	0.02	0.01
Muraenidae	<i>Gymnothorax moringa</i>	Predator	West Atlantic	0.19	0.22	0.28	0.07	0.06	0.01	0.02	0.01	0.00	0.22	0.16
Muraenidae	<i>Gymnothorax unicolor</i>	Predator	East Atlantic	0.08	0.04	0.12	0.00	0.02	3.36	0.71	2.26	4.40	0.08	0.08
Myliobatidae	<i>Mobula tarapacana</i>	Planktivore	Circumtropical	0.01	0.00	0.01	0.01	0.00	2.31	2.02	1.72	3.79	0.01	0.00
	<i>Acanthostracion</i>													
Ostraciidae	<i>notacanthus</i>	Sessile Invertivore	East Atlantic	0.20	0.14	0.23	0.46	0.04	0.26	0.08	0.24	0.17	0.17	0.24
Pomacentridae	<i>Abudefduf saxatilis</i>	Omnivore	Tropical Atlantic	1.03	2.30	1.43	0.03	0.32	0.82	4.15	0.89	3.34	1.15	0.87
Pomacentridae	<i>Chromis multilineata</i>	Planktivore	West Atlantic	20.24	32.45	30.41	2.44	3.92	0.27	0.04	0.27	0.07	20.04	20.48
Pomacentridae	<i>Chromis sanctae-helenae</i>	Planktivore	Central Atlantic	0.63	0.43	0.95	0.19	0.20	0.00	0.00	0.00	0.00	0.71	0.53
Pomacentridae	<i>Stegastes sanctae-helenae</i>	Territorial Herbivore	Central Atlantic	16.34	7.79	24.65	4.23	6.28	13.22	14.49	15.41	7.90	18.72	13.47
	<i>Heteropriacanthus</i>													
Priacanthidae	<i>cruentatus</i>	Predator	Circumtropical	1.79	1.20	2.99	0.16	0.14	0.12	1.17	0.43	0.09	2.29	1.19
Scarinae	<i>Sparisoma strigatum</i>	Roving Herbivore	Central Atlantic	1.74	2.77	2.04	2.36	0.62	0.93	0.40	0.82	0.84	1.71	1.77
Scorpaenidae	<i>Scorpaena mellissii</i>	Predator	Central Atlantic	0.09	0.00	0.13	0.00	0.06	0.04	0.03	0.03	0.06	0.10	0.08
Scorpaenidae	<i>Scorpaena plumieri</i>	Predator	West Atlantic	0.13	0.09	0.15	0.17	0.06	1.98	2.62	2.27	1.66	0.12	0.13
Serranidae	<i>Epinephelus adscensionis</i>	Predator	West Atlantic	0.85	1.81	1.17	0.24	0.21	0.02	0.00	0.01	0.03	1.03	0.63
Serranidae	<i>Rypticus saponaceus</i>	Predator	Tropical Atlantic	0.17	0.05	0.25	0.14	0.05	0.16	0.11	0.13	0.19	0.22	0.11
Sparidae	<i>Diplodus sargus helenae</i>	Omnivore	Central Atlantic	1.59	4.35	1.68	1.74	0.69	0.02	0.00	0.01	0.03	2.05	1.03
Synodontidae	<i>Synodus synodus</i>	Predator	Tropical Atlantic	0.69	0.35	0.88	0.83	0.32	0.06	0.00	0.05	0.03	0.81	0.55
Synodontidae	<i>Trachinocephalus myops</i>	Predator	Tropical Atlantic	0.10	0.00	0.05	0.02	0.24	0.07	0.09	0.04	0.18	0.11	0.09
	<i>Canthigaster</i>													
Tetraodontidae	<i>sanctae-helenae</i>	Omnivore	Central Atlantic	0.68	0.66	0.90	0.57	0.27	0.00	0.01	0.00	0.01	0.70	0.64
Tripterygiidae	<i>Helcogramma ascensionis</i>	Omnivore	Central Atlantic	0.01	0.00	0.01	0.00	0.00	2.57	1.40	2.36	2.23	0.00	0.01

Table S4. Fish trophic group composition in different Tropical Atlantic locations. For each location and trophic group the total species richness, the number of common species (>25% of total trophic group abundance), and the families found in this trophic group ordered by abundance from most abundant to least. Common families (>25% of total trophic group abundance), are shown in **bold**.

Site	<i>Roving Herbivores</i>		
	Richness	Common	Families
St Helena	4	2	<b>Acanthuridae, Scarinae</b> , Kyphosidae
Sao Tome	5	2	<b>Acanthuridae, Scarinae</b> , Kyphosidae
Santa Luzia	6	1	<b>Scarinae</b> , Kyphosidae, Acanthuridae
Trindade	6	2	<b>Kyphosidae, Acanthuridae</b> , Scarinae
St Paul's Rocks	1	1	<b>Kyphosidae</b>
Atol das Rocas	9	1	<b>Acanthuridae, Scarinae</b> , Kyphosidae
Arraial do Cabo	11	2	<b>Acanthuridae, Scarinae</b> , Kyphosidae
Espirito Santo	10	1	<b>Acanthuridae, Scarinae</b> , Kyphosidae
Abrolhos	9	1	<b>Scarinae</b> , Acanthuridae
Cozumel	14	1	<b>Acanthuridae, Scarinae</b> , Kyphosidae
	<i>Territorial Herbivores</i>		
	Richness	Common	Families
St Helena	3	1	<b>Pomacentridae</b> , Blennidae
Sao Tome	3	1	<b>Pomacentridae, Blennidae</b>
Santa Luzia	5	2	<b>Pomacentridae, Blennidae</b>
Trindade	5	2	<b>Pomacentridae, Blennidae</b>
St Paul's Rocks	2	1	<b>Pomacentridae</b> , Blennidae
Atol das Rocas	3	1	<b>Pomacentridae</b> , Blennidae

Arraial do Cabo	5	1	<b>Pomacentridae</b> , Blennidae
Espirito Santo	4	1	<b>Pomacentridae</b> , Blennidae
Abrolhos	5	1	<b>Pomacentridae</b> , Blennidae
Cozumel	7	2	<b>Pomacentridae</b>
	<b>Planktivores</b>		
	Richness	Common	Families
St Helena	8	2	<b>Pomacentridae</b> , <b>Chaetodontidae</b> , Holocentridae, Labridae, Carangidae, Balistidae, Myliobatidae
Sao Tome	7	2	<b>Serranidae</b> , <b>Pomacentridae</b> , Holocentridae, Sparidae, Labridae, Gobiidae
Santa Luzia	4	2	<b>Pomacentridae</b> , Holocentridae, Balistidae,
Trindade	6	1	<b>Labridae</b> , Pomacentridae, Holocentridae, Serranidae, Balistidae, Clupeidae
St Paul's Rocks	5	1	<b>Pomacentridae</b> , Holocentridae, Balistidae, Serranidae, Labridae
Atol das Rocas	6	1	<b>Labridae</b> , Pomacentridae, Pempheridae, Holocentridae, Serranidae, Apogonidae
Arraial do Cabo	2	1	<b>Pomacentridae</b> , Carangidae
Espirito Santo	8	1	<b>Pomacentridae</b> , Holocentridae, Labridae, Grammatidae, Serranidae
Abrolhos	5	0	Pomacentridae, Labridae, Grammatidae
Cozumel	7	2	<b>Pomacentridae</b> , <b>Labridae</b> , Serranidae, Haemulidae, Balistidae
	<b>Omnivores</b>		
	Richness	Common	Families
St Helena	9	1	<b>Gobiidae</b> , Sparidae, Pomacentridae, Tetraodontidae, Monacanthidae, Tripterygiidae
Sao Tome	10	1	<b>Gobiidae</b> , <b>Tetraodontidae</b> , Monacanthidae, Pomacentridae
Santa Luzia	10	1	<b>Gobiidae</b> , <b>Sparidae</b> , Blenniidae, Pomacentridae, Tetraodontidae, Monacanthidae, Mugilidae
Trindade	13	1	<b>Balistidae</b> , Pomacentridae, Gobiidae, Monacanthidae, Sparidae, Tetraodontidae
St Paul's Rocks	5	1	<b>Balistidae</b> , Pomacentridae, Monacanthidae

Atol das Rocas	5	2	<b>Gobiidae, Pomacentridae, Balistidae, Pomacanthidae, Monacanthidae</b>
Arraial do Cabo	10	2	<b>Sparidae, Pomacentridae, Gobiidae, Tetraodontidae, Pomacanthidae, Monacanthidae, Mugilidae</b>
Espirito Santo	9	2	<b>Sparidae, Pomacentridae, Monacanthidae, Gobiidae, Tetraodontidae, Pomacanthidae</b>
Abrolhos	9	2	<b>Pomacanthidae, Pomacentridae, Monacanthidae, Gobiidae, Tetraodontidae</b>
Cozumel	7	1	<b>Pomacentridae, Tetraodontidae, Pomacanthidae, Monacanthidae</b>
<b>Sessile Invertivores</b>			
	Richness	Common	Families
St Helena	2	2	<b>Ostraciidae, Chaetodontidae</b>
Sao Tome	4	1	<b>Pomacanthidae, Chaetodontidae, Ostraciidae</b>
Santa Luzia	2	2	<b>Chaetodontidae, Pomacanthidae</b>
Trindade	5	2	<b>Chaetodontidae, Pomacanthidae, Ostraciidae</b>
St Paul's Rocks	3	1	<b>Pomacanthidae, Chaetodontidae</b>
Atol das Rocas	3	1	<b>Chaetodontidae, Ostraciidae</b>
Arraial do Cabo	8	1	<b>Chaetodontidae, Ostraciidae, Pomacanthidae, Syngnathidae</b>
Espirito Santo	6	1	<b>Chaetodontidae, Pomacanthidae, Ostraciidae</b>
Abrolhos	3	2	<b>Pomacanthidae, Chaetodontidae</b>
Cozumel	10	2	<b>Chaetodontidae, Pomacanthidae, Ostraciidae</b>
<b>Mobile Invertivores</b>			
	Richness	Common	Families
St Helena	11	3	<b>Holocentridae, Labridae, Cirrhitidae, Apogonidae, Mullidae, Callionymidae, Bothidae, Diodontidae</b>
Sao Tome	19	0	<b>Apogonidae, Holocentridae, Mullidae, Serranidae, Haemulidae, Balistidae, Cirrhitidae, Bothidae, Diodontidae, Lethrinidae</b>
Santa Luzia	15	1	<b>Labridae, Haemulidae, Serranidae, Mullidae, Sparidae, Labrisomidae, Apogonidae, Holocentridae, Balistidae, Diodontidae, Tetraodontidae</b>
Trindade	21	1	<b>Labridae, Labriosomidae, Holocentridae, Mullidae, Malacanthidae, Balistidae, Haemulidae,</b>



			Diodontidae, Tetraodontidae, Blennidae, Callionymidae, Cirrhitidae, Dactylopteridae
St Paul's Rocks	6	2	<b>Labridae, Labriosomidae</b> , Chaenopsidae, Holocentridae, Dactylopteridae
Atol das Rocas	10	2	<b>Albulidae, Haemulidae</b> , Labridae, Mullidae, Balistidae, Bothidae, Diodontidae
Arraial do Cabo	32	1	<b>Haemulidae</b> , Labridae, Mullidae, Sciaenidae, Serranidae, Labrisomidae, Monacanthidae, Bothidae, Tetraodontidae, Dactylopteridae, Sparidae, Diodontidae, Balistidae, Chaenopsidae, Callionymidae, Gerreidae
Espirito Santo	31	2	<b>Holocentridae, Haemulidae, Labridae</b> , Labrisomidae, Mullidae, Sciaenidae, Tetraodontidae, Serranidae, Cirrhitidae, Chaenopsidae, Bothidae, Dactylopteridae, Diodontidae
Abrolhos	28	1	<b>Haemulidae, Labridae</b> , Balistidae, Mullidae, Labrisomidae, Serranidae, Sparidae, Holocentridae, Diodontidae, Ephippidae, Cirrhitidae, Tetraodontidae
Cozumel	25	1	<b>Haemulidae, Labridae</b> , Holocentridae, Mullidae, Balistidae, Grammatidae, Diodontidae, Sparidae
<b>Predators</b>			
	Richness	Common	Families
St Helena	21	1	<b>Priacanthidae</b> , Carangidae, Aulostomidae, Serranidae, Synodontidae, Muraenidae, Scorpaenidae, Belonidae, Antennariidae
Sao Tome	16	0	<b>Muraenidae</b> , Aulostomidae, Lutjanidae, Carangidae, Serranidae, Priacanthidae, Synodontidae, Ophichthidae
Santa Luzia	25	0	Serranidae, Lutjanidae, Priacanthidae, Sparidae, Muraenidae, Scorpaenidae, Aulostomidae, Synodontidae, Carangidae, Fistulariidae, Ginglymostomatidae, Dasytidae, Sciaenidae
Trindade	21	1	<b>Serranidae</b> , Carangidae, Priacanthidae, Muraenidae, Belonidae, Sphyraenidae, Synodontidae, Ophichthidae, Scorpaenidae, Ginglymostomatidae
St Paul's Rocks	11	1	<b>Muraenidae</b> , Carangidae, Aulostomidae, Serranidae, Sphyraenidae, Lutjanidae
Atol das Rocas	16	1	<b>Serranidae</b> , Carangidae, Lutjanidae, Malacanthidae, Belonidae, Ginglymostomatidae, Carcharhinidae, Muraenidae, Sphyraenidae
Arraial do Cabo	23	0	<b>Carangidae, Serranidae</b> , Muraenidae, Scorpaenidae, Synodontidae, Ophichthidae, Ogcocephalidae, Torpedinae, Fistulariidae, Antennariidae
Espirito Santo	20	1	<b>Sciaenidae, Serranidae</b> , Lutjanidae, Synodontidae, Aulostomidae, Scorpaenidae, Muraenidae, Carangidae, Ogcocephalidae, Priacanthidae, Ophichthidae
Abrolhos	26	0	<b>Lutjanidae</b> , Carangidae, Serranidae, Sphyraenidae, Synodontidae, Muraenidae, Scorpaenidae, Sciaenidae, Ogcocephalidae
Cozumel	22	2	<b>Lutjanidae</b> , Carangidae, Serranidae, Muraenidae, Sphyraenidae, Scorpaenidae