

Table S8. Summary of SIMPER results for parrotfishes biomass data collected in 2019. Average abundance (estandarized biomass) of species between location were significant differences were found, the average dissimilarity (Av.Diss), their contribution (Contrib%) to the within-group disssimilarity, and the cumulative total (Cum.%) of contributions (90% cut-off). Sex is detailed in the corresponding SIMPER summary (M: Males; F: Females)

Locality	SPECIES BIOMASS 2019					
	Average abundance	Av. Diss	SD	Contrib%	Cum.%	
	PRO	SA				
<i>Scarus taeniopterus</i>	0.08	0.39	7.52	1.56	15.95	15.95
<i>Sparisoma chrysopterum</i>	0.25	0.2	6.27	1.06	13.29	29.24
<i>Sparisoma rubripinne</i>	0.27	0.09	5.66	1.26	11.99	41.24
<i>Scarus coelestinus</i>	0.22	0.05	5.19	0.79	11.01	52.24
<i>Scarus vetula</i>	0.21	0.26	5.13	1.35	10.87	63.11
<i>Sparisoma viride</i>	0.56	0.45	4.34	1.29	9.21	72.32
<i>Sparisoma aurofrenatum</i>	0.28	0.36	3.83	1.25	8.13	80.45
<i>Scarus iseri</i>	0.18	0.29	3.71	1.37	7.87	88.32
<i>Scarus guacamaia</i>	0.1	0.09	3.18	0.74	6.74	95.06
	SPECIES (SEX) BIOMASS 2019					
<i>Sparisoma chrysopterum</i>	0.26	0.22	5.4	1.1	12.22	12.22
<i>Sparisoma rubripinne</i>	0.29	0.11	5.19	1.27	11.75	23.97
<i>Scarus taeniopterus</i> (F)	0.07	0.29	4.47	1.59	10.1	34.08
<i>Scarus taeniopterus</i> (M)	0.07	0.27	4.46	1.39	10.09	44.16
<i>Sparisoma viride</i> (M)	0.41	0.27	4.08	1.23	9.22	53.38
<i>Scarus vetula</i> (F)	0.17	0.23	3.71	1.35	8.39	61.77
<i>Sparisoma viride</i> (F)	0.41	0.38	3.18	1.23	7.2	68.97
<i>Scarus vetula</i> (M)	0.13	0.11	2.83	1.08	6.41	75.38
<i>Sparisoma aurofrenatum</i> (M)	0.17	0.25	2.79	1.37	6.3	81.68
<i>Scarus iseri</i> (F)	0.13	0.22	2.42	1.3	5.47	87.15
<i>Sparisoma aurofrenatum</i> (F)	0.25	0.26	2.39	1.34	5.41	92.56