

Table S5. Summary of SIMPER results for parrotfishes abundances data collected in 2018. Average abundance (with square root transformation) of species between location were significant differences were found, the average dissimilarity (Av.Diss), their contribution (Contrib%) to the within-group dissimilarity, and the cumulative total (Cum.%) of contributions (90% cut-off). Sex is detailed in the corresponding SIMPER summary (M: Males; F: Females)

SPECIES ABUNDANCE 2018

Locality	Average abundance		Av. Diss	SD	Contrib%	Cum.%
	ALB	SA				
<i>Scarus iseri</i>	4	6	6	1	21	21
<i>Scarus taeniopterus</i>	4	6	6	1	20	41
<i>Sparisoma aurofrenatum</i>	4	5	4	1	13	54
<i>Sparisoma viride</i>	4	3	4	1	12	66
<i>Scarus vetula</i>	2	2	3	1	11	77
<i>Sparisoma atomarium</i>	1	2	3	1	9	86
<i>Sparisoma rubripinne</i>	1	0	2	1	8	94
	BOL	SA				
<i>Scarus taeniopterus</i>	4	6	7	1	24	24
<i>Scarus iseri</i>	5	6	5	1	17	41
<i>Scarus vetula</i>	2	2	3	1	13	54
<i>Sparisoma viride</i>	4	3	3	1	12	66
<i>Sparisoma aurofrenatum</i>	5	5	3	1	11	77
<i>Sparisoma atomarium</i>	1	2	3	1	11	88
<i>Sparisoma rubripinne</i>	1	0	2	1	6	94
	SA	PRO				
<i>Scarus taeniopterus</i>	6	5	5	1	21	21
<i>Scarus iseri</i>	6	5	4	1	17	38
<i>Sparisoma viride</i>	3	4	4	1	14	53
<i>Scarus vetula</i>	2	2	3	1	12	65
<i>Sparisoma aurofrenatum</i>	5	5	3	1	10	75
<i>Sparisoma atomarium</i>	2	2	3	1	10	85
<i>Sparisoma chrysopterus</i>	0	1	2	1	6	92

SPECIES (SEX) ABUNDANCE 2018

	Average abundance		Av. Diss	SD	Contrib%	Cum.%
	ALB	SA				
<i>Scarus iseri</i> (F)	3	5	5	1	15	15
<i>Scarus taeniopterus</i> (F)	4	5	5	1	14	29
<i>Sparisoma aurofrenatum</i> (F)	4	5	3	1	9	38
<i>Sparisoma viride</i> (F)	3	3	3	1	8	47
<i>Scarus taeniopterus</i> (M)	1	2	3	2	8	55
<i>Scarus vetula</i> (F)	2	2	3	1	7	62
<i>Sparisoma atomarium</i>	1	2	2	1	7	69
<i>Sparisoma viride</i> (M)	2	1	2	1	7	76
<i>Scarus iseri</i> (M)	2	2	2	1	6	82
<i>Sparisoma rubripinne</i>	1	0	2	1	6	88
<i>Sparisoma aurofrenatum</i> (M)	2	2	1	1	4	92
	BOL	SA				
<i>Scarus taeniopterus</i> (F)	4	5	5	1	17	17
<i>Scarus iseri</i> (F)	5	5	4	1	13	29
<i>Scarus vetula</i> (F)	2	2	3	1	9	38
<i>Sparisoma viride</i> (F)	3	3	3	1	9	47
<i>Scarus taeniopterus</i> (M)	1	2	2	2	8	55
<i>Sparisoma atomarium</i>	1	2	2	1	8	63
<i>Sparisoma aurofrenatum</i> (F)	4	5	2	1	8	71
<i>Sparisoma viride</i> (M)	1	1	2	1	6	76
<i>Scarus vetula</i> (M)	1	0	2	1	5	82

<i>Scarus iseri</i> (M)	2	2	1	1	5	86
<i>Sparisoma aurofrenatum</i> (M)	2	2	1	1	5	91
	SA	PRO				
<i>Scarus taeniopterus</i> (F)	5	4	4	1	14	14
<i>Scarus iseri</i> (F)	5	5	3	1	12	26
<i>Sparisoma viride</i> (F)	3	4	3	1	9	35
<i>Sparisoma viride</i> (M)	1	2	2	1	8	43
<i>Scarus taeniopterus</i> (M)	2	1	2	1	8	51
<i>Scarus vetula</i> (F)	2	1	2	1	8	59
<i>Sparisoma atomarium</i>	2	2	2	1	7	66
<i>Sparisoma aurofrenatum</i> (F)	5	4	2	1	7	73
<i>Scarus iseri</i> (M)	2	3	2	1	6	80
<i>Sparisoma aurofrenatum</i> (M)	2	3	1	1	5	85
<i>Scarus vetula</i> (M)	0	1	1	1	5	90
<i>Sparisoma chrysopterus</i>	0	1	1	1	5	94