

1 [Supplemental Supporting Information](#)

2 [S3 Table. ANOVA table of island effects on ecophysiology by genera.](#)

3 [Significance at \$p < 0.05\$ is noted in bold.](#)

Response	<i>Porolithon</i>		<i>Halimeda</i>		<i>Avrainvillea</i>		<i>Pocillopora</i>		<i>Montipora</i>	
	<i>F</i>	<i>p</i>	<i>F</i>	<i>p</i>	<i>F</i>	<i>p</i>	<i>F</i>	<i>p</i>	<i>F</i>	<i>p</i>
Gross photosynthesis	8.59	0.002	0.02	0.983	25.86	0.002	3.66	0.029	3.64	0.031
Net photosynthesis	3.85	0.039	4.40	0.052	35.50	0.001	2.33	0.103	1.81	0.182
Dark respiration	4.57	0.013	13.38	0.002	0.73	0.425	1.86	0.170	5.65	0.006
Maximum quantum yield	8.66	0.002	1.89	0.219	7.64	0.033	17.98	< 0.001	99.37	< 0.001
Chl <i>a</i>	4.97	0.009	0.61	0.566	6.94	0.039	9.85	< 0.001	15.20	< 0.001
Carotenoids	3.91	0.023	0.67	0.534	0.20	0.669	9.38	< 0.001	10.74	< 0.001
Phycocyanin	1.47	0.260	-	-	-	-	-	-	-	-
Phycocerythrin	7.22	0.002	-	-	-	-	-	-	-	-
Allophycocyanin	0.68	0.615	-	-	-	-	-	-	-	-