

Table S4. Statistical analysis of the effects of latitude on the metabolic rates of seagrass meadows in the Red Sea during the summer of 2017 (presented in Fig. 4). GPP, R, and NCP indicate gross primary production, respiration and net community production while GPP/R is the autotrophy/heterotrophy ratio.

~latitude	<i>Halodule uninervis</i>		<i>Halophila ovalis</i>		<i>Halophila stipulacea</i>		<i>Thalassia hemprichii</i>	
	R^2	<i>p-value</i>	R^2	<i>p-value</i>	R^2	<i>p-value</i>	R^2	<i>p-value</i>
GPP	0.959	0.021	NA	NA	0.687	0.171	0.165	0.598
R	0.743	0.138	NA	NA	0.526	0.274	0.006	0.916
NCP	0.751	0.133	NA	NA	0.693	0.167	0.204	0.548
GPP/R	0.417	0.354	NA	NA	0.006	0.918	0.006	0.917