

1 **Supplementary Material**

2 Table S1 – Results from PERMANOVA tests of fixed (Vegetation and Month) and random
 3 (Site(Vegetation) factor effects on faunal community composition. Columns headed by the
 4 abbreviations df, SS and MS are for degrees of freedom, Sums of Squares and Mean Square,
 5 respectively. Statistically significant differences, $p \leq 0.05$, are in bold.

Epifauna						
Source	df	SS	MS	Pseudo-F	P(perm)	Estimate of component of variation
Vegetation	1	16422	16422	2.58	0.045	11.01
Month	2	1480	740.02	0.66195	0.771	0
Site (Vegetation)	11	69945	6358.6	33.304	0.001	20.28
Vegetation x Month	2	2572	1286	1.1503	0.321	2.46
Site(Vegetation) x Month	22	24595	1117.9	5.8554	0.001	13.62
Residuals	156	29784	190.92			13.82
Total	194	1.46 e-5				
Infauna						
Vegetation	1	19222	19222	4.86	0.008	14.40
Month	2	1553.1	776.56	1.23	0.306	1.71
Site (Vegetation)	11	45366	4124.2	11.88	0.001	16.47
Vegetation x Month	2	1750.8	875.41	1.39	0.2	3.14
Site(Vegetation) x Month	19	12032	633.26	1.8244	0.001	7.47
Residuals	150	52066	347.11			18.63
Total	185	1.37e-5				

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8 Table S2 – PERMANOVAs were performed on Bray-Curtis distances for epi- and
 9 infauna communities, respectively. Site was a random factor and Month was fixed.
 10 Statistically significant differences, $p \leq 0.05$, are in bold.

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		<i>Z. marina</i>							
		Source	Df	SS	MS	Pseudo-F	P	Estimate of component of variation	
Epifauna		Site	3	24982	8327.3	48.521	0.001	23.32	
		Site x Month (pooled with Month)	8	4016.5	502.06	2.925	0.001	8.13	
		Residuals	48	8238	171.62			13.1	
		Total	59	37236					
	<i>Ulva spp.</i>								
		Site	8	44963	5620.3	28.172	0.001	19.01	
		Month	2	4499.7	2249.8	1.6739	0.095	4.49	
		Site x Month	16	21505	1344	6.737	0.001	15.13	
		Residuals	108	21546	199.5			14.13	
		Total	134	92513					
		<i>Z. marina</i>							
		Source	Df	SS	MS	Pseudo-F	P	Estimate of component of variation	
Infauna		Site	3	55681	18560	12.883	0.001	35.58	
		Site x Month (pooled with Month)	7	18878	2696.9	1.872	0.001	15.71	
		Residuals	45	64828	1440.6			37.96	
		Total	55	1.418e-5					
	<i>Ulva spp.</i>								
		Site	8	1.387e-5	17327	8.8455	0.001	32.73	
		Month	2	11065	5532.4	1.5075	0.087	6.63	
		Site x Month	15	55103	3673.5	1.8753	0.001	18.53	
		Residuals	104	2.037e-5	1958.9			44.26	
		Total	129	4.057e-5					