

Shell shape variation and fitness variables in the gastropod *Littorina saxatilis*

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Table S1. *Littorina saxatilis*. Vectors of coefficients between the transformed linear dimension variables (apical angle, aa, is not transformed; see 'Materials and methods' in the main article) forming the first 3 principal components (PCs) for the 4 samples. The vectors are grouped according to their suggested relationships in Fig. 2 of the main text; therefore, the groups are of like PCs, and not of the nth component. The order of the component is shown by the number in each component name code; thus 'Old Pk A1' is PC1 for sample A at Old Peak, while in the same block is PC2 for the Selwicks sample because it is demonstrably the same PC. Also shown are the correlations between the vectors (ρ values), all of which are significant ($p \leq 0.05$) with the exception of the value of 0.667 ($p = 0.083$) between Selwicks PC1 and Thornwick PC2. Last are shown the correlations between the positions of the shells on the PCs (i.e., their PC scores) and the values for the tissue indices (see 'Materials and methods' in main text for abbreviations) where these ρ values are associated with a p value of ≤ 0.05 ; p values are given in brackets

PC vectors, Group 1					PC vectors, Group 2					PC vectors, Group 3				
variable	Old Pk A1	Old Pk B1	Selwicks 2	Thwk 1	variable	Selwicks 1	Old Pk B3	Old Pk A2	Thwk 2	variable	Thwk 3	Old Pk A3	Old Pk B2	Selwicks 3
ww2 _t	-0.510	-0.403	-0.495	-0.539	ll _t	-0.354	-0.272	-0.485	-0.563	ww1 _t	-0.618	-0.260	-0.388	-0.519
cl _t	-0.341	-0.403	-0.431	-0.425	ww2 _t	-0.246	-0.436	-0.168	-0.011	ww0 _t	-0.319	-0.324	-0.465	-0.165
ww1 _t	-0.293	-0.399	-0.459	-0.085	cl _t	-0.230	-0.150	-0.122	0.169	ll _t	-0.192	-0.387	-0.274	-0.171
ww0 _t	-0.134	-0.105	-0.177	0.061	ww1 _t	0.239	0.312	0.516	0.388	ww2 _t	0.001	0.155	0.005	-0.002
aw _t	0.212	-0.137	-0.025	0.398	al _t	0.400	0.166	0.201	0.379	aa	0.002	-0.011	0.153	0.044
ll _t	0.296	0.483	0.464	0.243	aw _t	0.418	0.568	0.268	0.185	aw _t	0.156	0.409	0.256	-0.097
al _t	0.318	0.006	-0.003	0.136	aa	0.424	0.283	0.224	0.145	cl _t	0.308	0.487	0.282	0.473
aa	0.534	0.502	0.333	0.531	ww0 _t	0.434	0.431	0.541	0.552	al _t	0.600	0.500	0.624	0.663

Correlations between PC vectors

Group 1				Group 2				Group 3			
	Old Pk B1	Selwicks 2	Thwk 1		Old Pk B3	Old Pk A2	Thwk 2		Old Pk A3	Old Pk B2	Selwicks 3
Old Pk A1	0.946	0.905	0.905	Selwicks 1	0.810	0.833	0.667	Thwk 3	0.881	0.976	0.905
Old Pk B1		0.910	0.850	Old Pk B3		0.905	0.738	Old Pk A3		0.905	0.833
Selwicks 2			0.857	Old Pk A2			0.881	Selwicks 3			0.857

Correlations between shell scores on the PCs and tissue indices, significant $p \leq 0.05$

	Group 1			Group 2				Group 3
	Old Pk A1		Thwk 1	Selwicks 1	Old Pk B3	Old Pk A2	Thwk 2	Selwicks 3
Body index			0.396 (0.010)	-0.38 (0.019)	-0.682 (0.002)	-0.582 (0)	-0.272 (0.044)	-0.556 (0)
Brood index	0.374 (0.018)		0.404 (0.002)					
Reproductive effort	0.385 (0.015)			-0.406 (0.012)		0.38 (0.016)		