

## Results so far (LTER datasets) AFTER BORING CLAM:

Simple linear regression on raw data:

Functional group	Max winter wave height Pr(> t )	Mean winter wave height Pr(> t )
Mobile inverts	0.26065	<b>0.01794</b>
Epilithic sessile inverts	0.11378	<b>0.04082</b>
Endolithic sessile inverts	0.513845	<b>0.005317</b>
Understory algae	<b>0.03779</b>	<b>0.02927</b>
Giant kelp	0.662	0.8658
Fish	0.74626	0.6152

Log transformed data vs waves linear regression:

Functional group	Max winter wave height Pr(> t )	Mean winter wave height Pr(> t )
Mobile inverts	0.1401	<b>0.002011</b>
Epilithic sessile inverts	<b>0.03882</b>	<b>0.0003481</b>
Endolithic sessile inverts	0.9871	0.1089
Understory algae	0.1075	<b>0.04847</b>
Giant kelp	0.376	0.6649
Fish	0.08532	<b>0.021934</b>

Correlation (spearman) results:

Data	S	P-value	Rho value	Meaning
Mobile invert max wave height	1426807	0.2756	0.07558208	

Mobile invert mean wave height	1182430	<b>0.0006331</b>	0.2339122	Significant slight positive correlation between yearly average winter wave heights and mobile invert biomass
Epilithic sessile invert max wave height	1319960	<b>0.03599</b>	0.1448074	Significant slight positive correlation between max winter wave heights and epilithic sessile invert biomass, <b>may be due to type one error</b>
Epilithic sessile invert mean wave height	1123750	<b>6.535e-05</b>	0.2719306	Significant slight positive correlation between average winter wave heights and epilithic sessile invert biomass
Endolithic sessile invert max wave height	1663377	0.2624	-0.07769019	

Endolithic sessile invert mean wave height	1704635	0.1315	-0.104421	
Understory algae max wave height	1300077	<b>0.02226</b>	0.1576894	Significant slight positive correlation between understory algae biomass and max winter storms wave height, <b>may be due to type one error</b>
Understory algae mean wave height	1302116	<b>0.02343</b>	0.1563685	Significant slight positive correlation between understory algae biomass and mean winter storms wave height
Giant kelp max wave height	1731913	0.0775	-0.122094	
Giant kelp mean wave height	1542683	0.9942	0.00050667 24	

Fish max wave height	1293849	<b>0.01902</b>	0.1617246	Significant slight positive correlation between fish biomass and max winter storms wave height, <b>may be due to type one error</b>
Fish mean wave height	1236092	<b>0.003759</b>	0.199145	Significant slight positive correlation between fish biomass and mean winter storms wave height