Results so far (LTER datasets) BEFORE 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	**0.01795**
Sessile inverts	0.608	**0.009659**
Understory algae	**0.03779**	**0.02927**
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	**0.002011**
Sessile inverts	0.933	0.1172
Understory algae	0.1075	**0.0485**
Giant kelp	0.376	0.6649
Fish	0.08532	**0.021934**

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	**0.0006331**	0.2339122	Significant slight positive correlation between yearly average winter wave heights and mobile invert biomass
Sessile invert max wave height	1654796	0.2982	-0.0721306	

Sessile invert mean wave height	1704725	0.1313	−0.1044793	
Understory algae max wave height	1300077	**0.02226**	0.1576894	Significant slight positive correlation between understory algae biomass and max winter storms wave height
Understory algae mean wave height	1302116	**0.02343**	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	0.0005066724	

Fish max wave height	1293849	**0.01902**	0.1617246	Significant slight positive correlation between fish biomass and max winter storms wave height, could be a type one error
Fish mean wave height	1236092	**0.003759**	0.199145	Significant slight positive correlation between fish biomass and mean winter storms wave height

Notes: