

Environmental Predictors of Wrack Biomass

Generalized linear mixed-effects models with gamma distributions, log link functions, and site as a random effect (**p<.005, *p<.05)

Model Name	Model Terms	K	AIC	ΔAIC	Model Likelihood	AIC Weight	Log Likelihood	Cumulative Weight
Intertidal Width	Intertidal Width***	4	862.369	0.000	1.000	0.765	-427.185	0.765
Intertidal Width + Biophysical Site Variables	Intertidal Width*** + Aspect + Slope + Wave Exposure	7	865.905	3.536	0.171	0.131	-425.952	0.896
Intertidal Width + Climatic Variables	Intertidal Width* + Wind Direction + Wind Speed + Wave Height + Wave Period + High Tide	9	867.994	5.625	0.060	0.046	-424.997	0.942
Null	Null	3	869.101	6.731	0.035	0.026	-431.550	0.968
Climatic Variables	Wind Direction* + Wind Speed* + Wave Height* + Wave Period + High Tide*	8	869.613	7.244	0.027	0.020	-426.807	0.989
Intertidal Width + Biophysical Site Variables + Climatic Variables	Intertidal Width + Aspect + Slope + Wave Exposure + Wind Direction + Wind Speed + Wave	12	872.554	10.185	0.006	0.005	-424.277	0.994

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	Height + Wave Period + High Tide							
Biophysical Site Variables	Aspect + Slope + Wave Exposure	6	873.009	10.640	0.005	0.004	-430.505	0.997
Biophysical Site Variables + Climatic Variables	Aspect + Slope + Wave Exposure + Wind Direction* + Wind Speed + Wave Height*** + Wave Period + High Tide*	11	873.676	11.307	0.004	0.003	-425.838	1.000