

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	0.762	-427.185	0.762
Intertidal Width + Biophysical Site Variables	Intertidal Width*** + Aspect + Slope + Wave Exposure	7	865.905	3.536	0.171	0.130	-425.952	0.892
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	0.937
Null	Null	3	869.101	6.731	0.035	0.026	-431.550	0.964
Climatic Variables	Wind Direction* + Wind Speed* + Wave Height*** + Wave Period + High Tide*	8	869.613	7.244	0.027	0.020	-426.807	0.984
Intertidal Width + Biophysical Site Variables + Climatic Variables	Intertidal Width* + Aspect + Slope + Wave Exposure + Wind Direction + Wind Speed + Wave	11	870.864	8.494	0.014	0.011	-424.432	0.995

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
	Height + Wave Period							
Biophysical Site Variables	Aspect + Slope + Wave Exposure	6	873.009	10.640	0.005	0.004	-430.505	0.999
Biophysical Site Variables + Climatic Variables	Aspect + Slope + Wave Exposure + Wind Direction + Wind Speed* + Wave Height* + Wave Period	10	875.148	12.779	0.002	0.001	-427.574	1.000