

## Environmental Predictors of Wrack Biomass

Generalized Linear Models with Gamma Distributions and Log Link Functions (\*\*\*p<.005, \*p<.05)

Model Name	Model Terms	K	AIC	ΔAIC	Model Likelihood	AIC Weight	Log Likelihood	Cumulative Weight
Intertidal Width	Intertidal Width***	3	297.437	0.000	1.000	0.862	-145.719	0.862
Intertidal Width + Biophysical Site Variables	Intertidal Width*** + Aspect + Slope + Wave Exposure	6	301.614	4.177	0.124	0.107	-144.807	0.969
Intertidal Width + Climatic Variables	Intertidal Width* + Wind Direction + Wind Speed + Wave Height + Wave Period + High Tide	8	304.783	7.346	0.025	0.022	-144.391	0.991
Climatic Variables	Wind Direction + Wind Speed + Wave Height + Wave Period + High Tide*	7	308.350	10.912	0.004	0.004	-147.175	0.994
Intertidal Width + Biophysical Site Variables + Climatic Variables	Intertidal Width + Aspect + Slope + Wave Exposure + Wind Direction + Wind Speed + Wave Height + Wave	11	309.117	11.679	0.003	0.003	-143.558	0.997

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Model Name	Model Terms	K	AIC	ΔAIC	Model Likelihood	AIC Weight	Log Likelihood	Cumulative Weight
	Period + High Tide							
Biophysical Site Variables	Aspect* + Slope* + Wave Exposure*	5	309.194	11.757	0.003	0.002	-149.597	0.999
Null	Null	2	312.419	14.982	0.001	0.000	-154.209	1.000
Biophysical Site Variables + Climatic Variables	Aspect + Slope + Wave Exposure + Wind Direction + Wind Speed + Wave Height + Wave Period + High Tide*	10	313.870	16.433	0.000	0.000	-146.935	1.000