

## Distribution of the isopod *Exciorolana braziliensis* on sandy beaches of the Atlantic and Pacific Oceans

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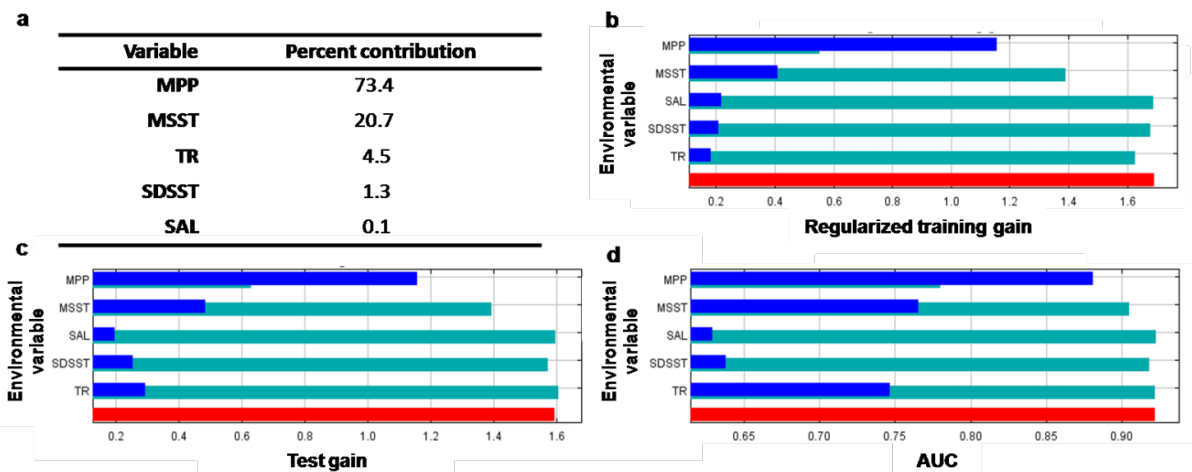


Figure S1. Outputs of the analysis of variable contributions by Maxent model. a) Relative contributions of the environmental variables to model. Results of the jackknife test of variable importance through b) increase in regularized training gain, c) test gain and d) AUC. See text for details. Turquoise, blue and red bars indicate without variable, with only variable and with all variables models respectively.

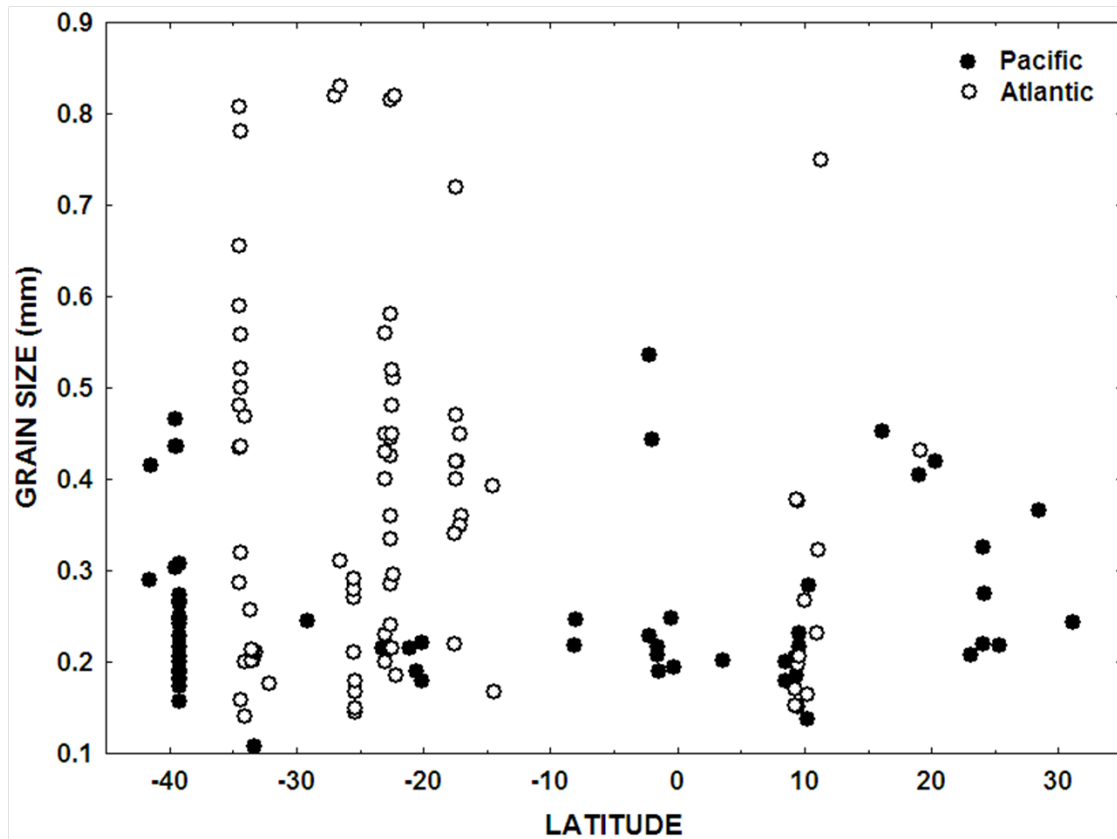


Figure S2. Geographic variation of grain size across Atlantic and Pacific distributional ranges of *E. braziliensis*.

Table S1. Degree of fit of six hypothetical models to the observed abundance of *E. braziliensis* (ind·m<sup>-2</sup>) in the Pacific (N=77) and Atlantic (N=62) coasts of America. Significant values are in bold.

Models	P	Atlantic			Pacific		
		RSS	AICs	Akaike w	RSS	AICs	Akaike w
Normal	2	2.933	-49.57	0.000	<b>0.913</b>	-78.75	0.000
Inverse quadratic	2	1.439	-67.38	0.000	<b>0.066</b>	<b>-144.45</b>	<b>0.999</b>
Abundance edge	4	<b>0.238</b>	<b>-108.36</b>	<b>0.999</b>	1.503	-62.29	0.000
Ramped north	2	2.365	-54.95	0.000	<b>0.300</b>	-106.53	0.000
Ramped south	2	<b>0.441</b>	-86.71	0.000	1.507	-66.22	0.000
Null	1	2.222	-56.50	0.000	2.967	-49.28	0.000

Table S2. Bibliography where information on the occurrence and abundance of the isopod *Excirolana braziliensis* was taken.

Biogeographic province	Occurrence	Abundance	References
<b>Atlantic Ocean</b>			
Warm Temperate SW	63	58	5-7 11 16-18 23 24 32 35 38 39 43 44
Tropical SW	18	2	34 38 45
North Brazil Shelf	1	0	37
Tropical NW	23	17	2 19-22 31 33
<b>Pacific Ocean</b>			
Warm Temperate SE	43	38	3 4 8 13 14 16 26-30 40 47
Tropical East	26	17	1 9 10 12 15 19 25 36 38 42 46
Warm Temperate NE	8	7	10 15 36 41

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