

Journal: Ocean and Coastal Research

Title: Microbiome changes in a stranding simulation of the holopelagic macroalgae *Sargassum natans* and *Sargassum fluitans*

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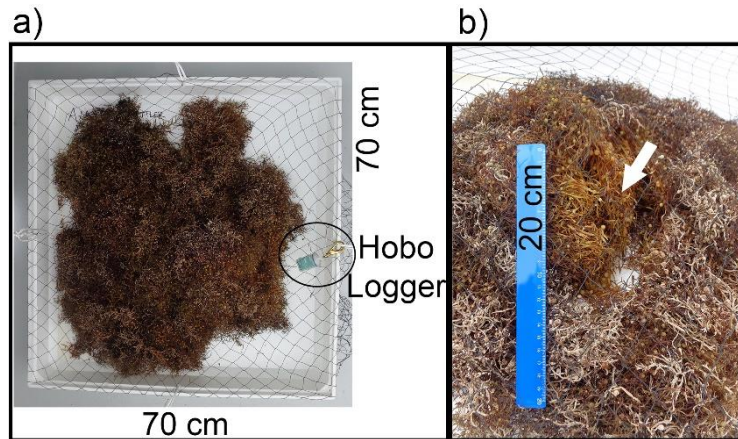


Figure S1. *Sargassum* stranding simulation set up. a) *Sargassum* pile placed inside 70 x 70 cm tray, covered with 3 x 3 cm net to avoid biomass losses by wind, and sensor data logger (Hobo Logger) placed at tray's border. b) After 24 hrs of exposure experiment, the outer layers of *Sargassum* seemed dehydrated, so samples were taken from inside the pile, indicated by an arrow, where the biomass was humid and decomposing

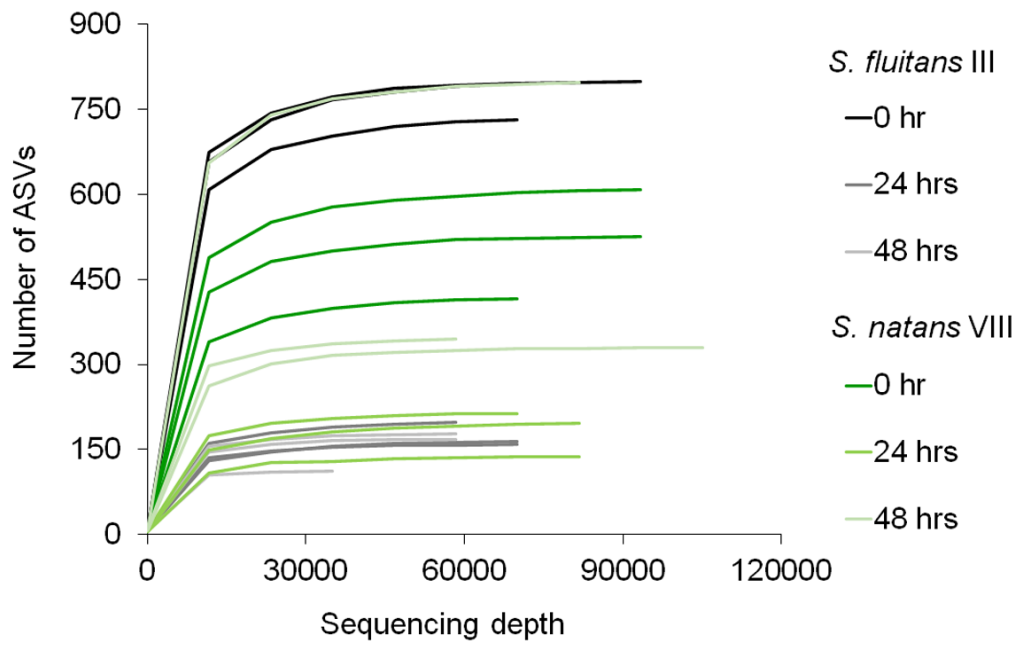


Figure S2. Rarefaction curves from samples of *Sargassum fluitans* III and *S. natans* VIII generated during the stranding simulation. *S. fluitans* III - shades of grey lines; *S. natans* VIII - shades of green lines)

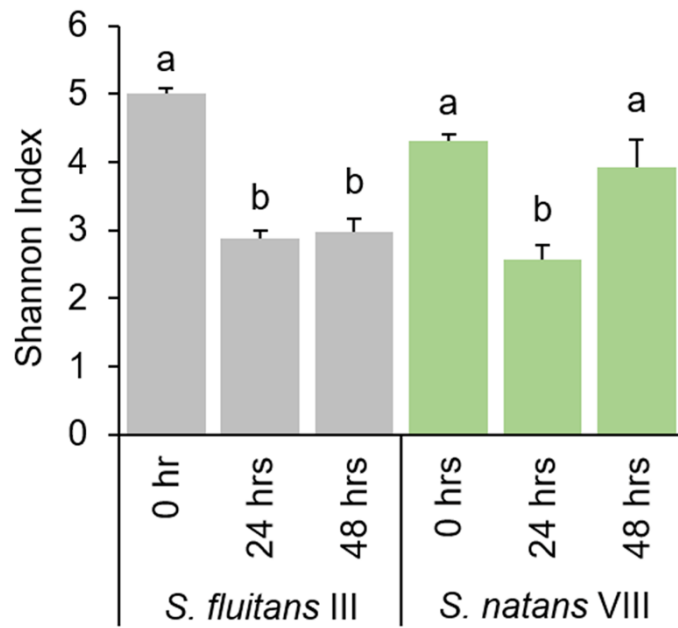


Figure S3 Alpha-diversity of amplicon sequencing variants (ASVs). Shannon index values of ASVs associated with *Sargassum fluitans* III and *S. natans* VIII along the stranding simulation. Mean values and bars of standard error (n = 3). Equal letters indicate that there were no significant differences found by pairwise Tukey HSD testing. Significance level 0.05