



Figure S3. Partial influence of the six most influential interactions (in order of significance) in Boosted Regression Tree (BRT) model prediction: (a) Tidal amplitude and mean wave height; (b) stratification index and mean wave height; (c) minimum sea surface temperature (SST) and tidal amplitude; (d) mean wave height and substrate; (e) minimum SST and mean wave height and; (f) wind speed and mean wave height. The warmer the colour the greater the probability of *S. alveolata* occurrence (see inset in panel (a)).