

Fig. S1. White pox disease presence on *Acropora palmata* as a function of colony area. The rug plot indicates disease-free observations (at  $y = 0$ ) and disease-positive observations (at  $y = 1$ ). A local regression line (loess, span = 0.5) is also shown as an estimate of the probability of disease presence as a function of colony area. The y-axis scale applies to both the rug plot and probability of disease presence.

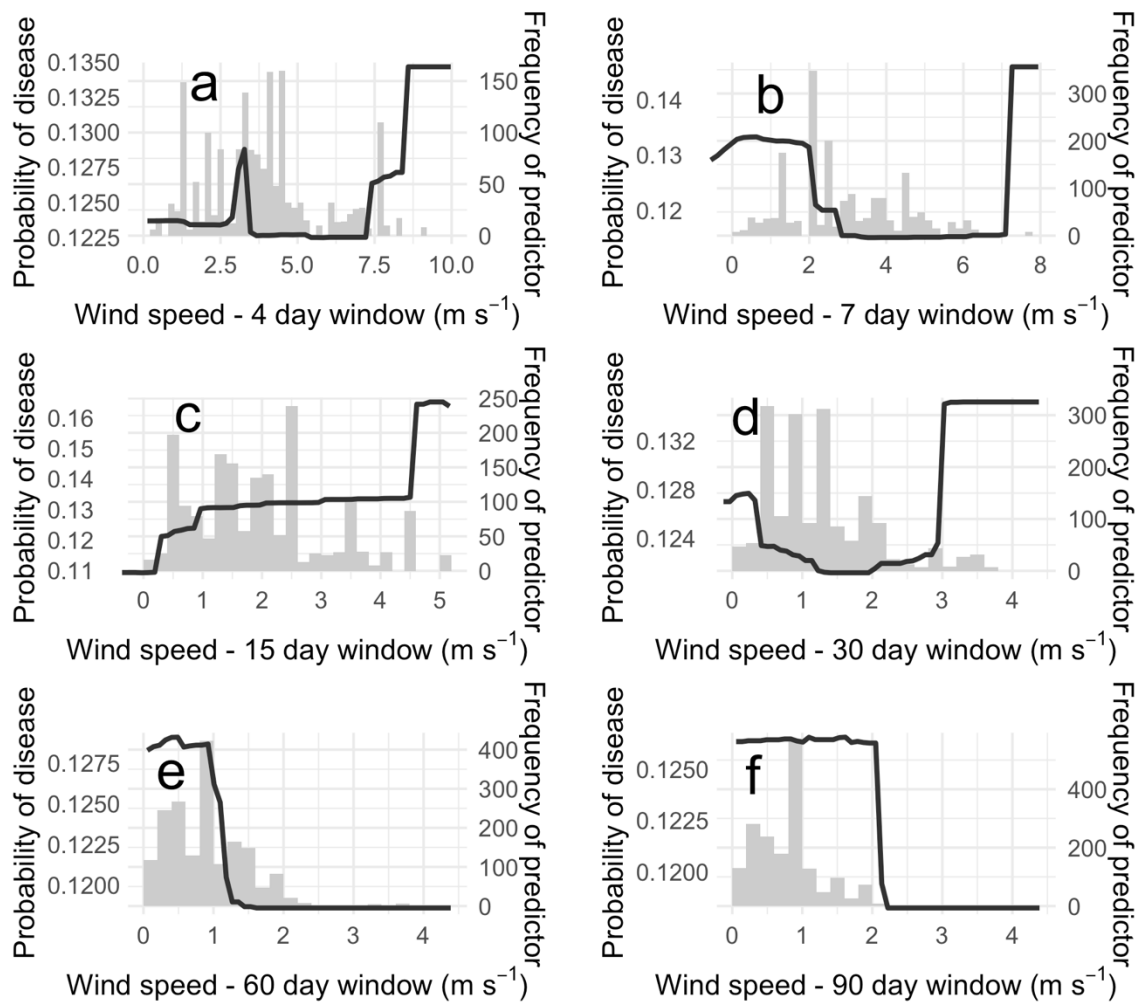


Fig. S2. Partial dependence plots of wind speed predictors of white pox disease affecting *Acropora palmata* in the Florida Keys. Minimum wind speeds were extracted over 4-, 7-, 15-, 30-, 60- and 90-day windows up to each survey. In each subplot, the line shows the probability of disease (left y-axis) as a function of the predictor value, and the histogram (right y-axis) shows the frequency of the predictor value in the dataset.