Fig S1. Scatterplot of predicted vs. observed organic mass fraction of sea spray for the Mace Head (red) and Point Reyes (black) sites with the 1:1 line in blue.
Fig. S2. Organic mass fraction of sea spray as a function of observed 10 meter wind speed ($U_{10}$) for Mace Head as shown in Fig. 2a but with the colors representing the corresponding chlorophyll-a concentrations binned into “low” ([Chl-a] < 0.25 mg m$^{-3}$, in black), “moderate” (0.25 < [Chl-a] < 0.5 mg m$^{-3}$, in blue), and “high” ([Chl-a] > 0.5 mg m$^{-3}$, in green) concentrations. The color of the linear trendlines correspond to the [Chl-a] bin.
Fig. S3. Scatterplot of average nearshore (nearest 1° × 1° grid to Mace Head) and offshore (1° × 1° grid 24 hours upwind of Mace Head) wind speeds derived by NASA’s Quick Scatterometer (QuikSCAT) during the Mace Head aerosol sampling periods with linear trendline in black and 1:1 line in blue.