

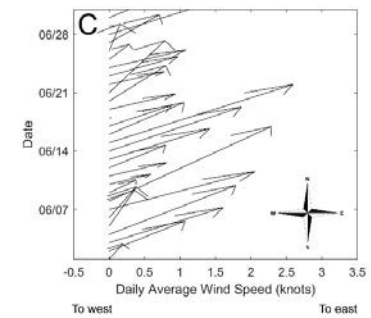
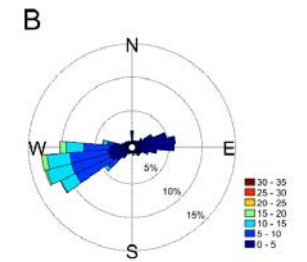
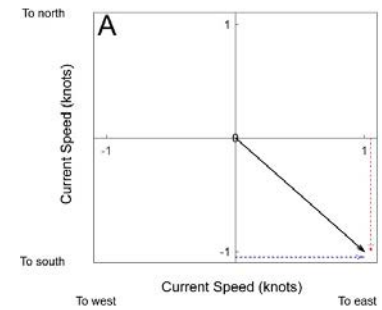
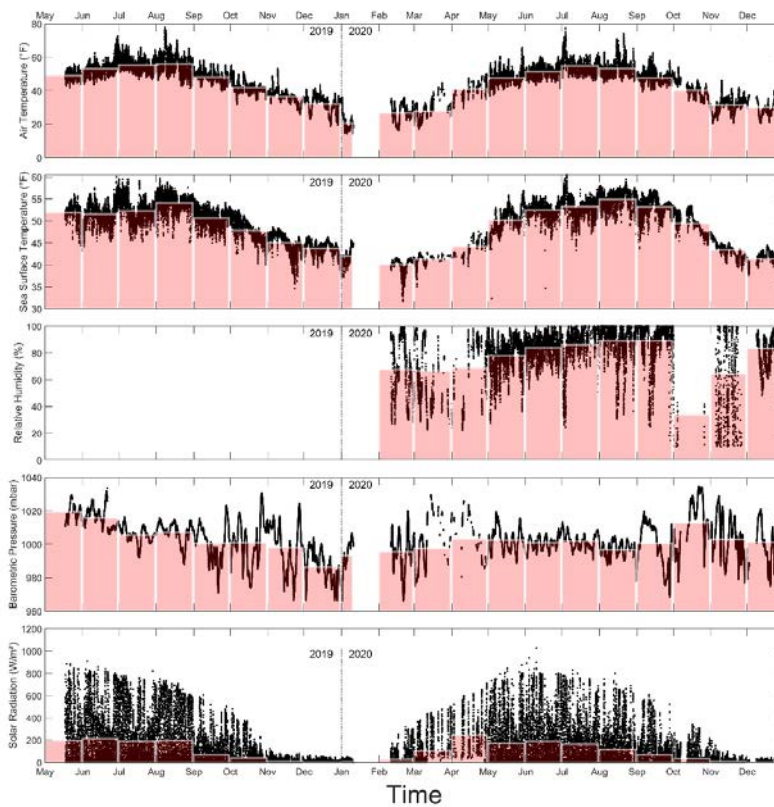
Port Valdez Weather Buoy Analysis

PWSRCAC OSPR, 5 Aug 2021

Rob Campbell

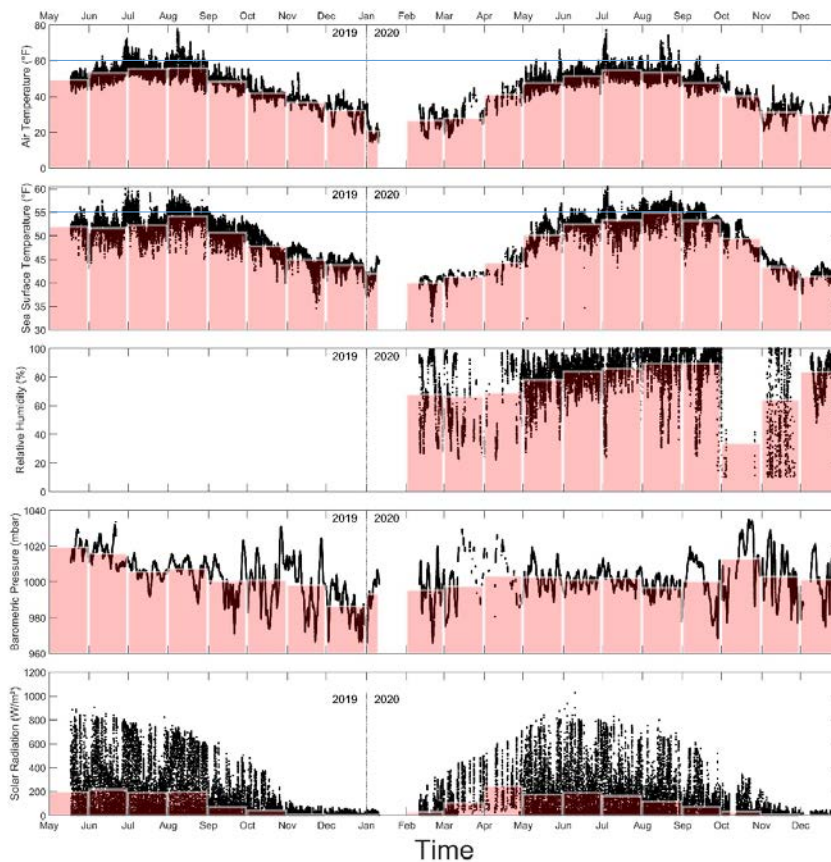


Scalars vs vectors

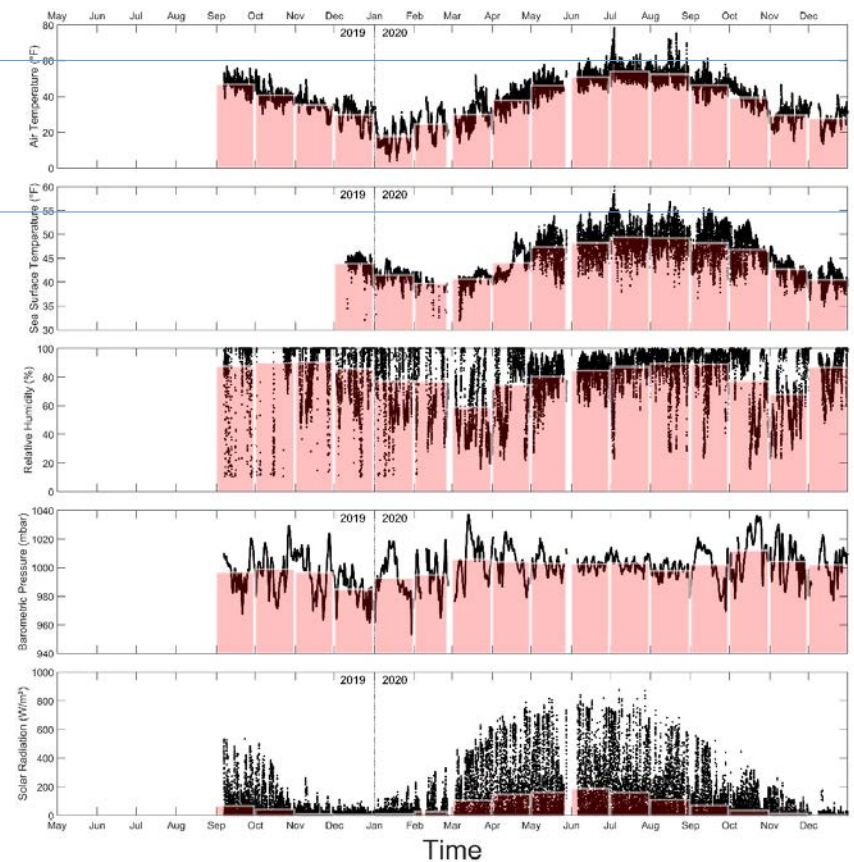


Monthly averages – met and oceanographic

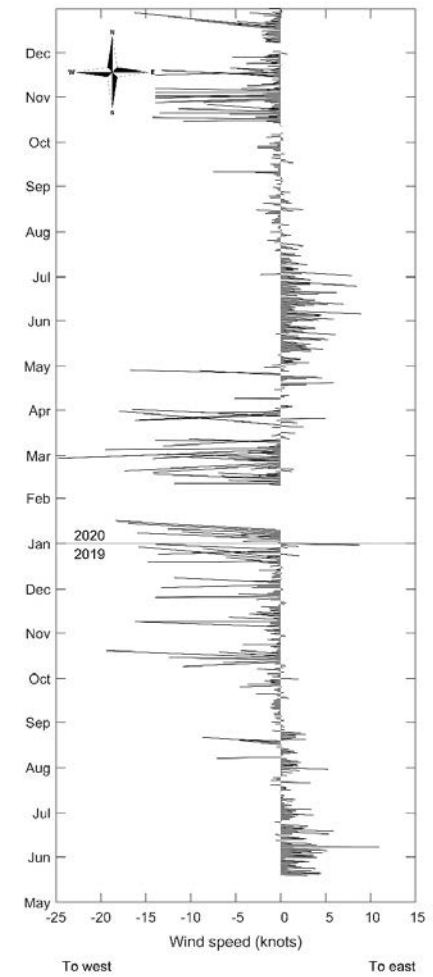
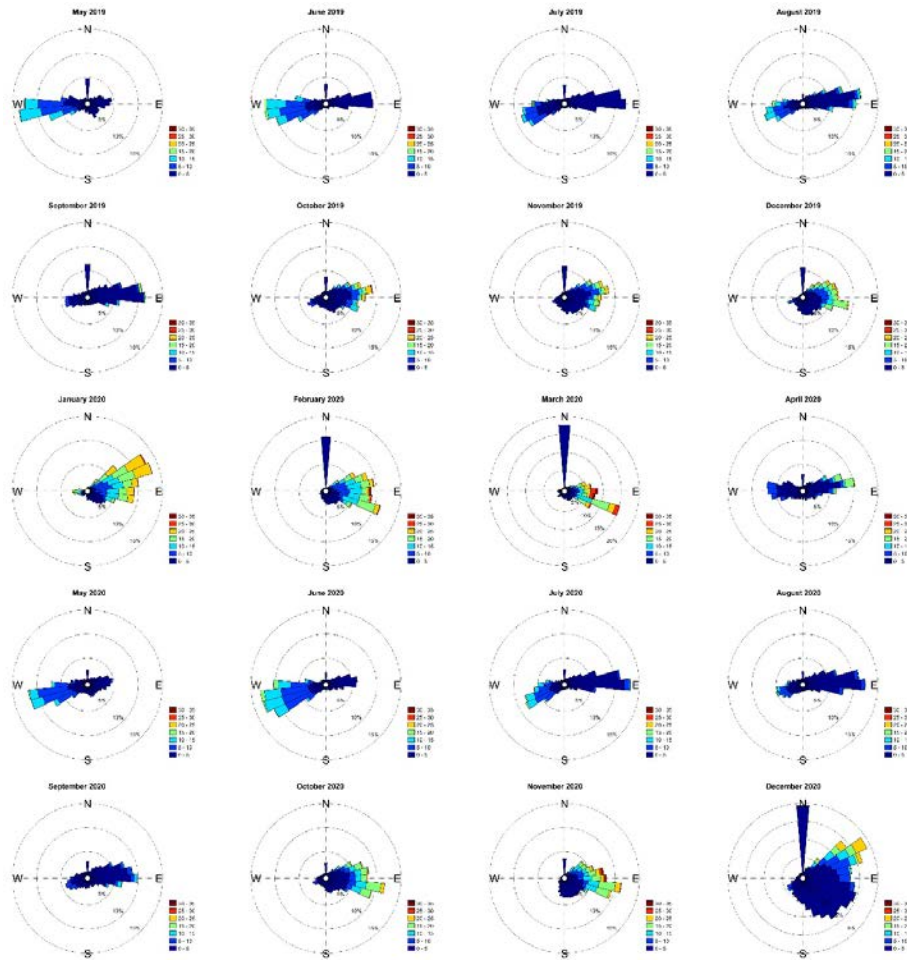
VMT



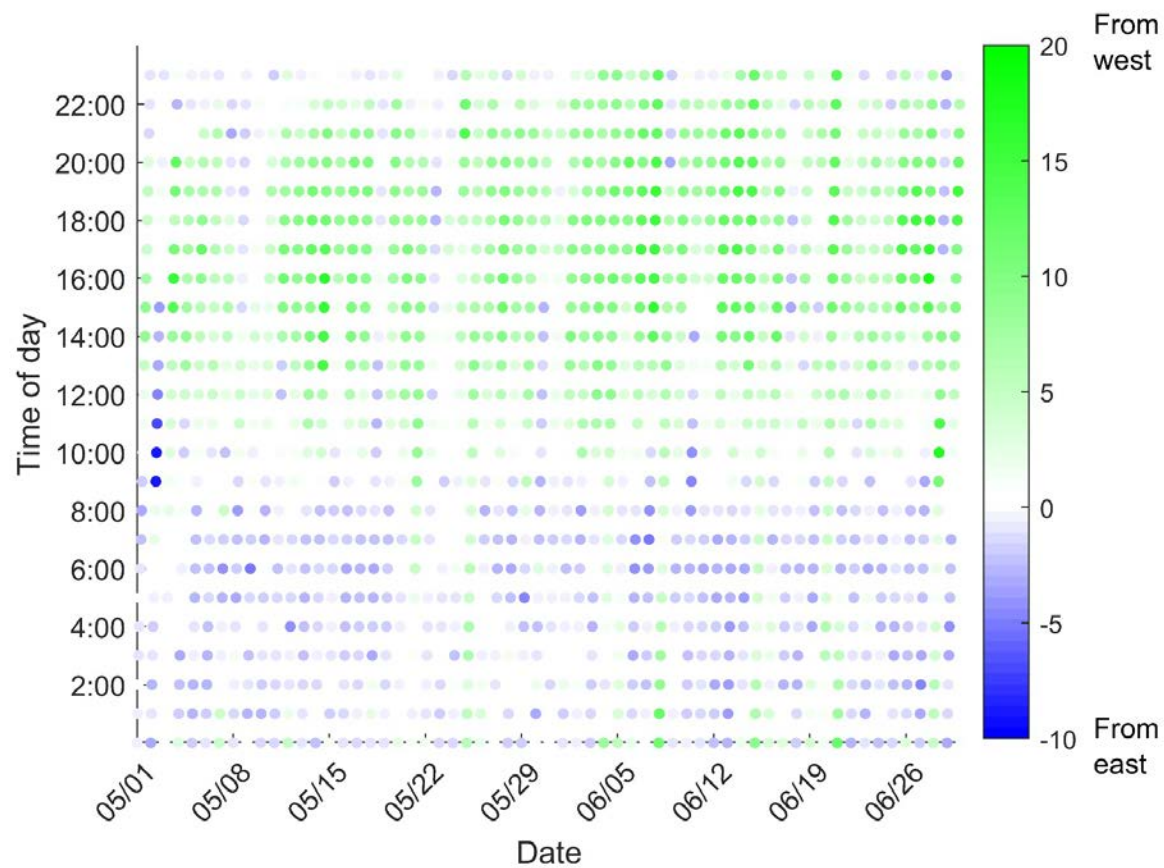
Duck Flats



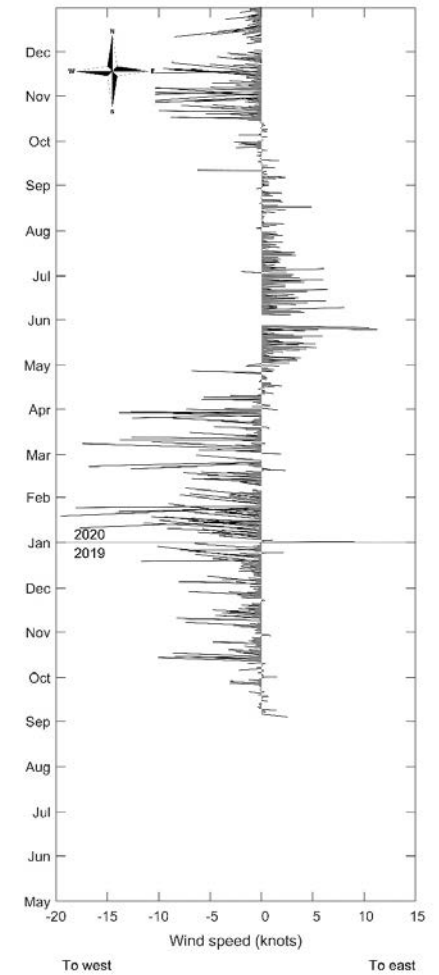
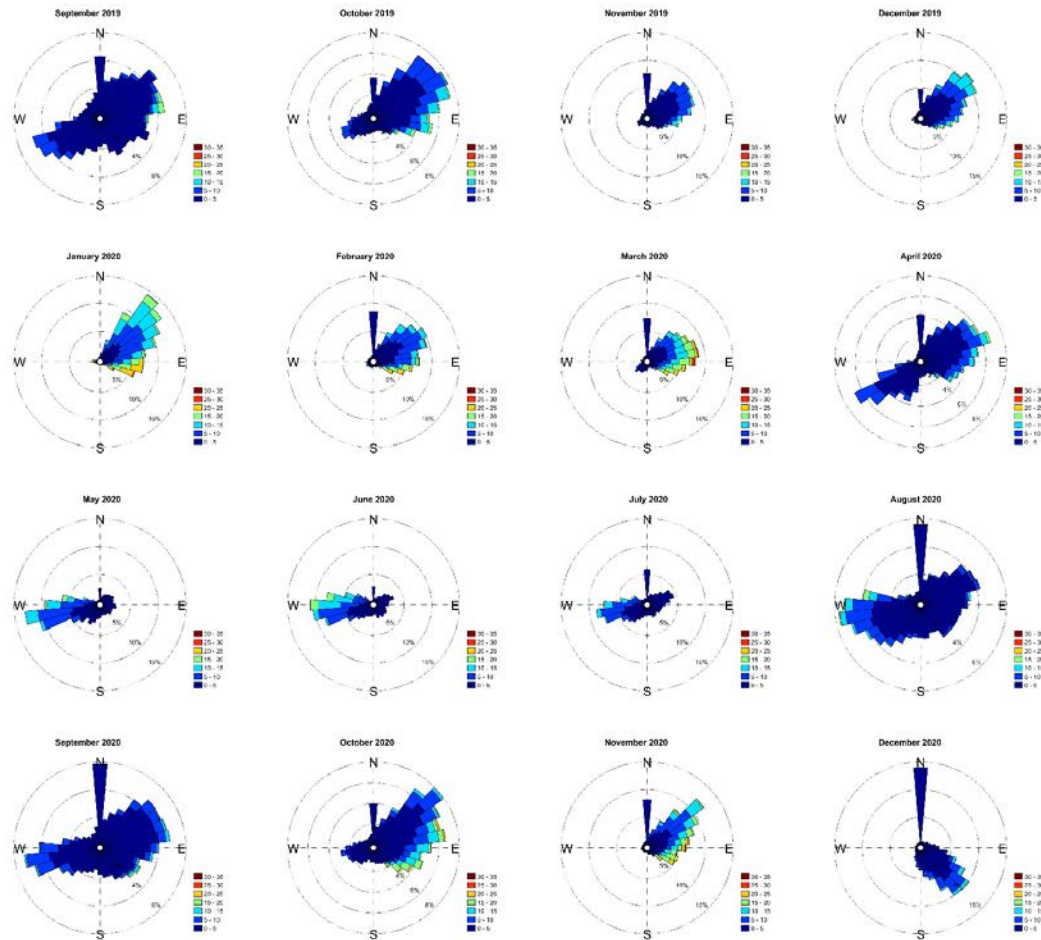
Winds - VMT



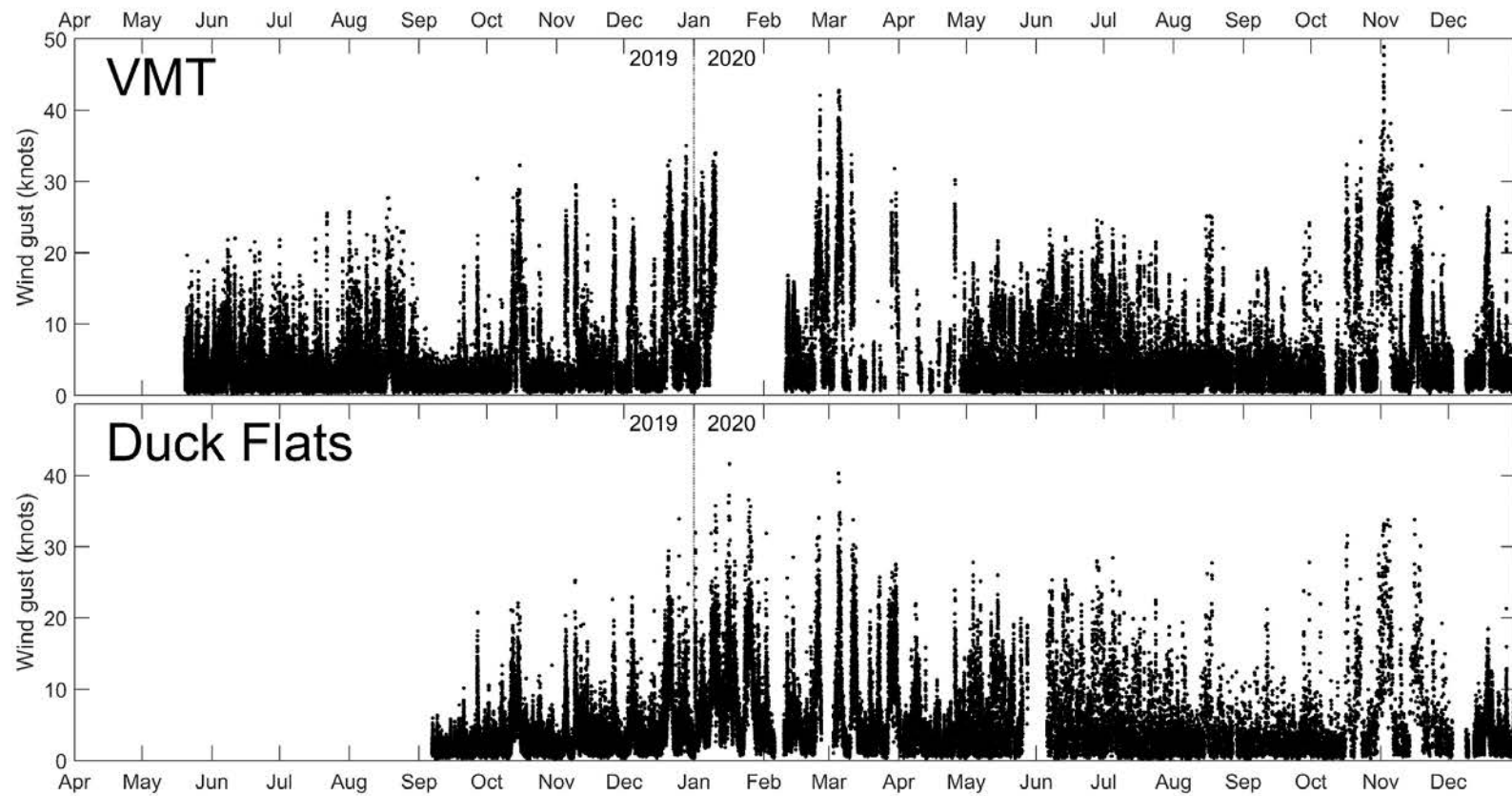
Daily sea breezes at VMT



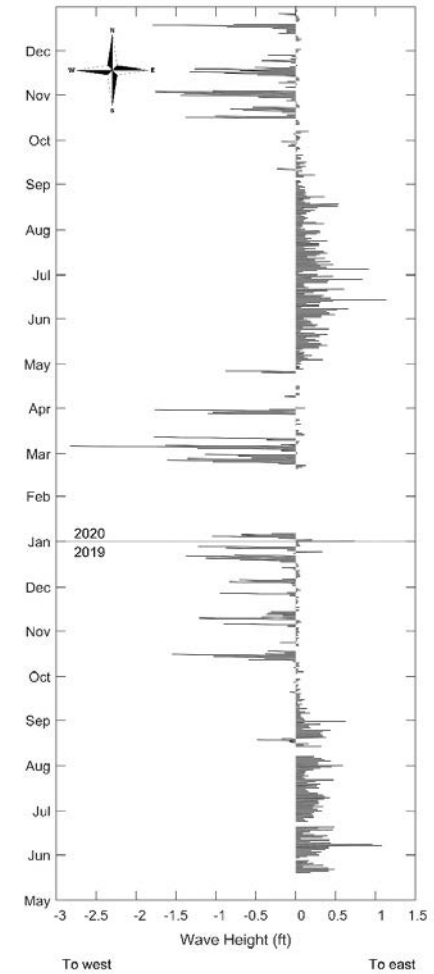
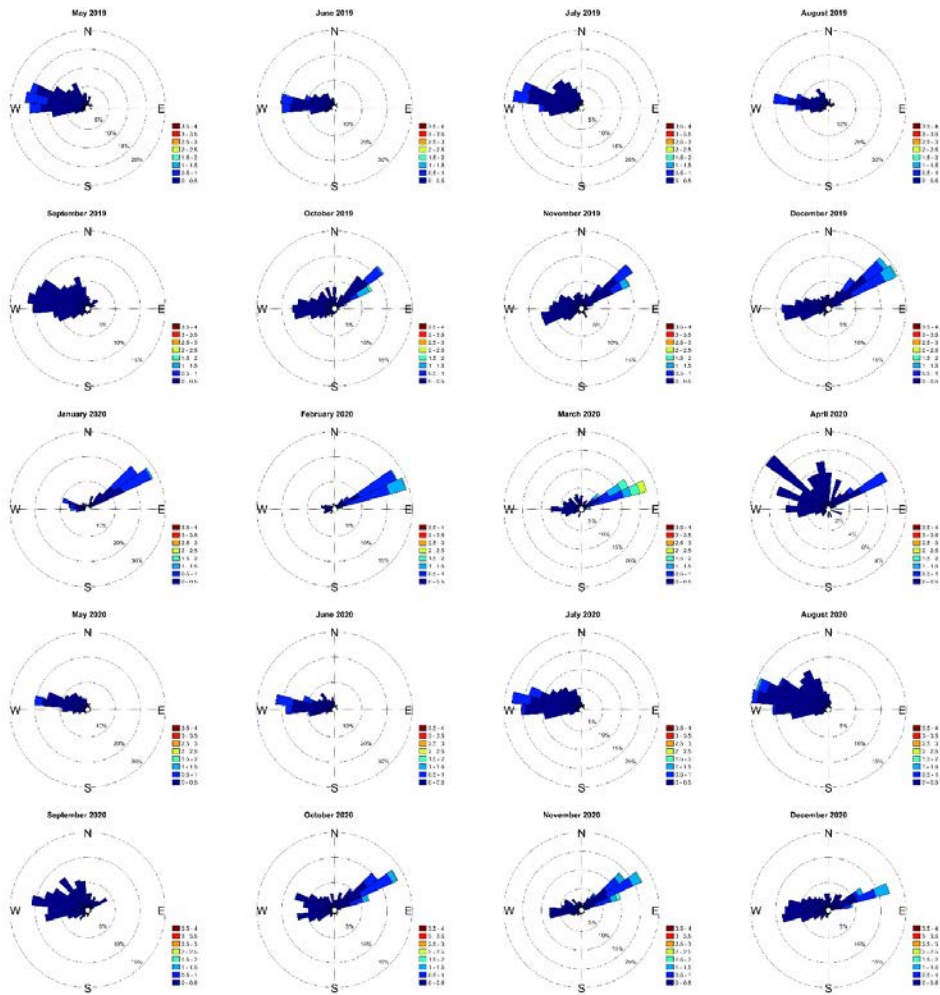
Winds – Duck Flats



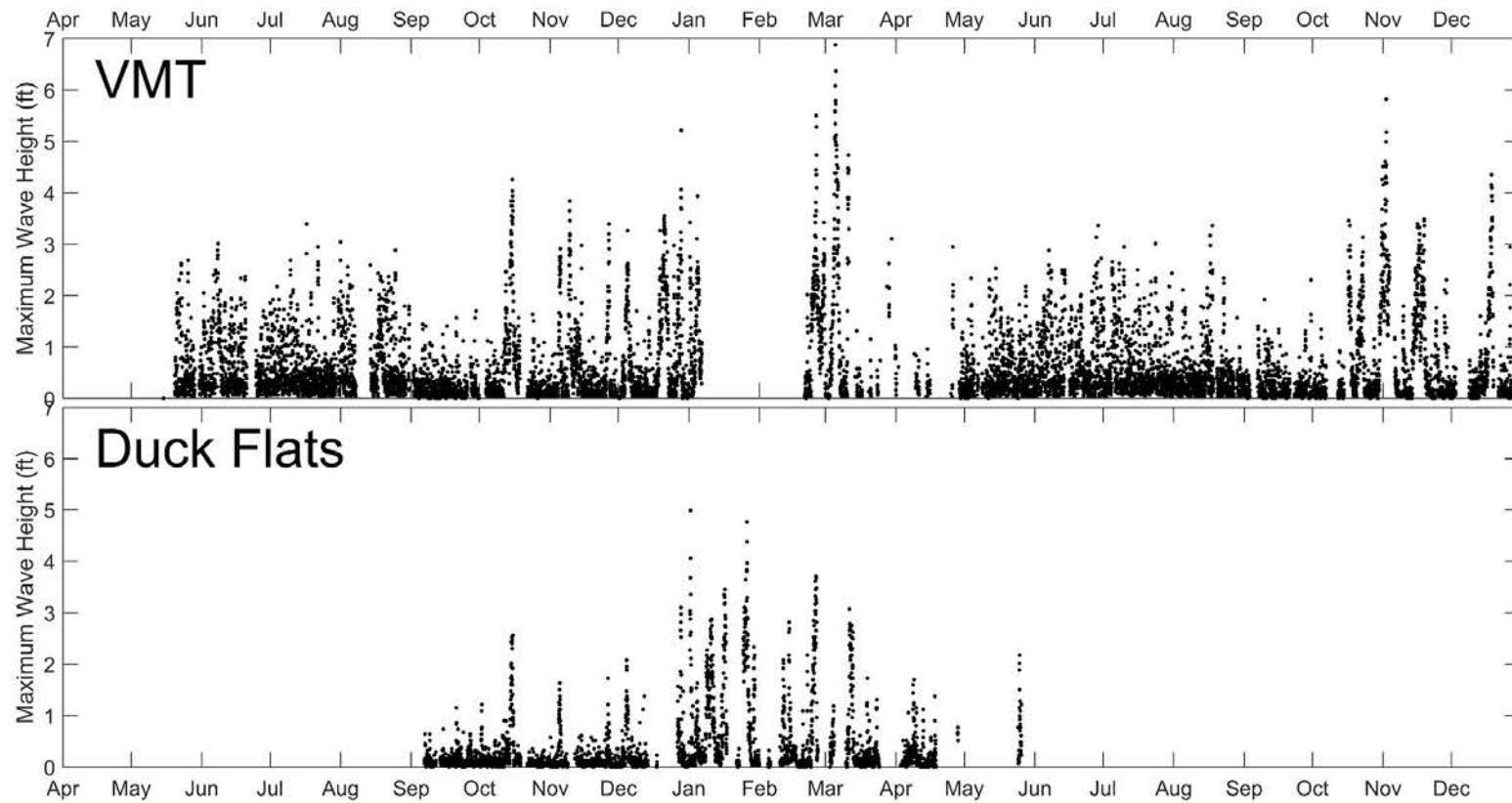
Wind gusts



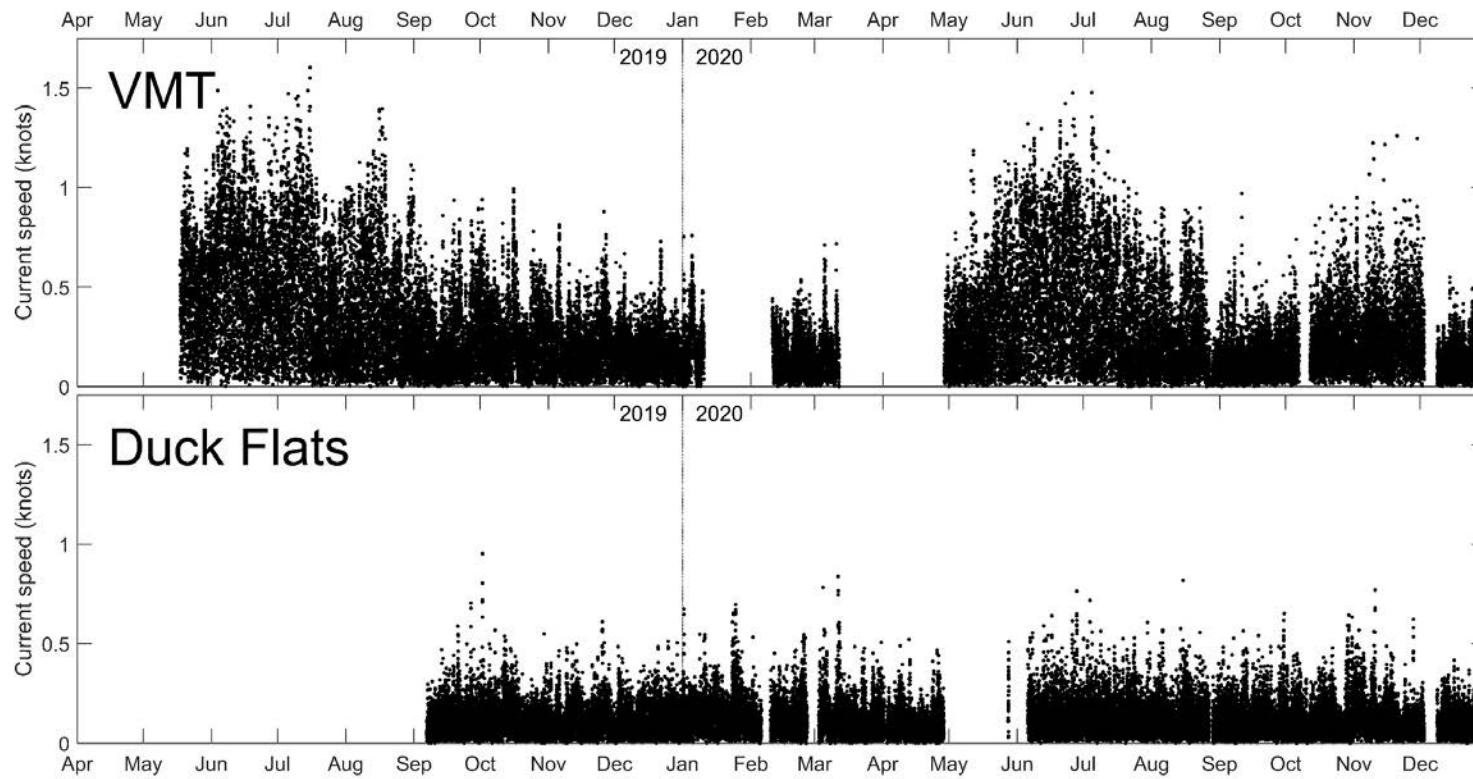
Waves - VMT



Max wave height

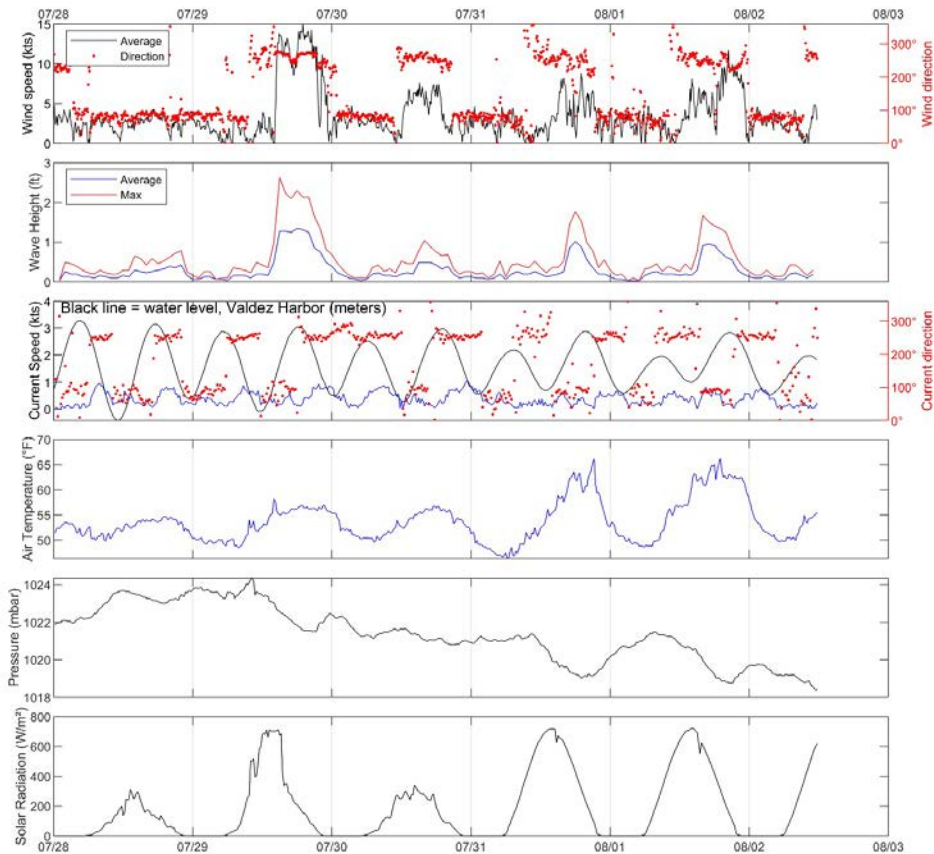


Surface currents

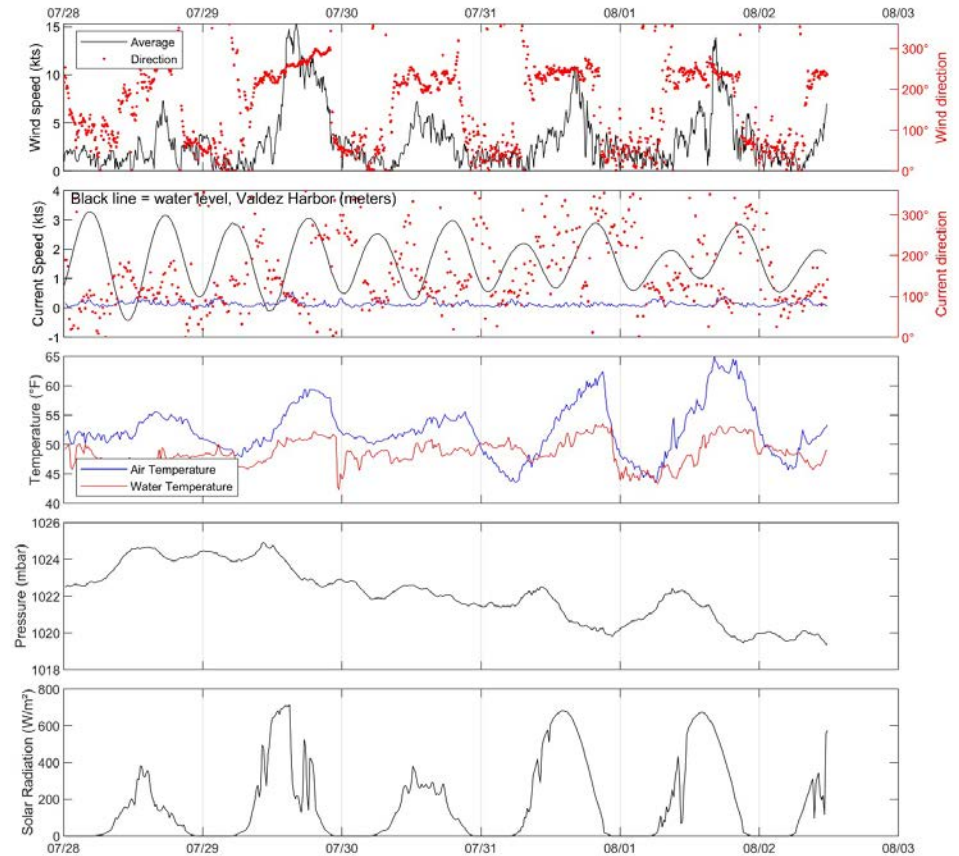


Tidal currents

VMT



Duck Flats



Detiding

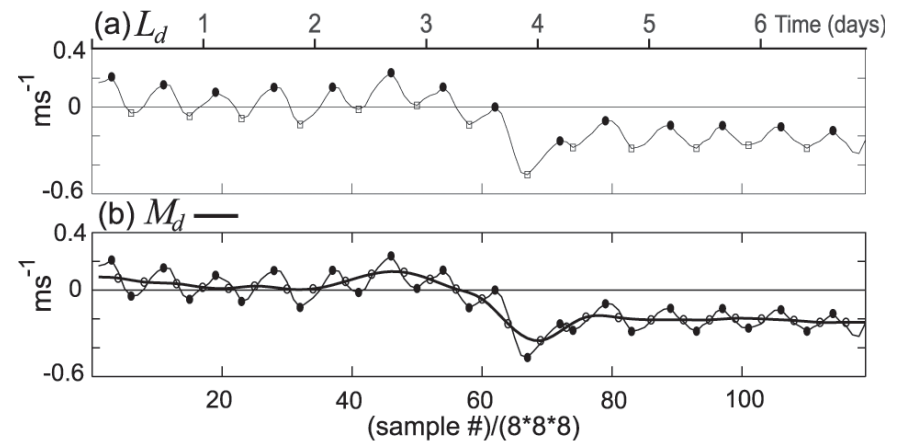
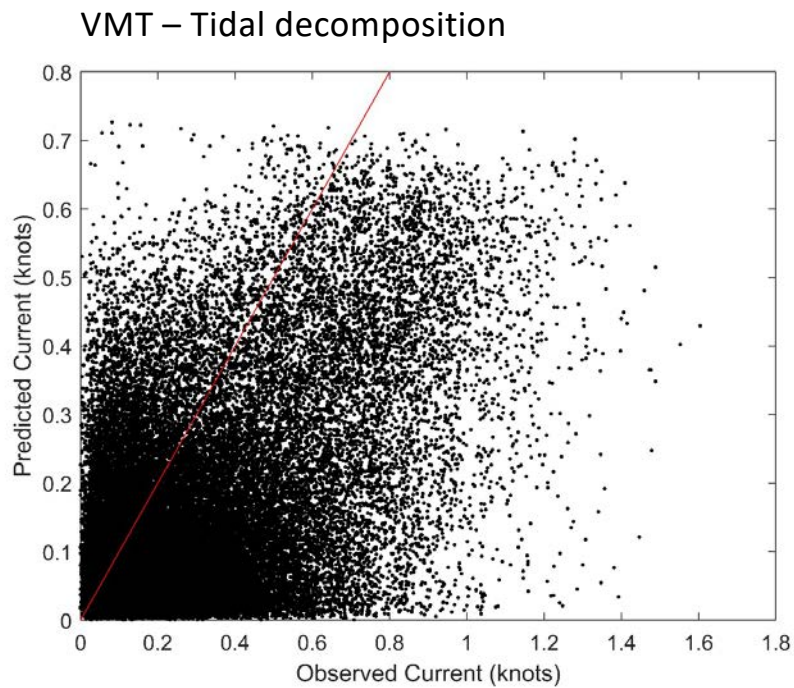
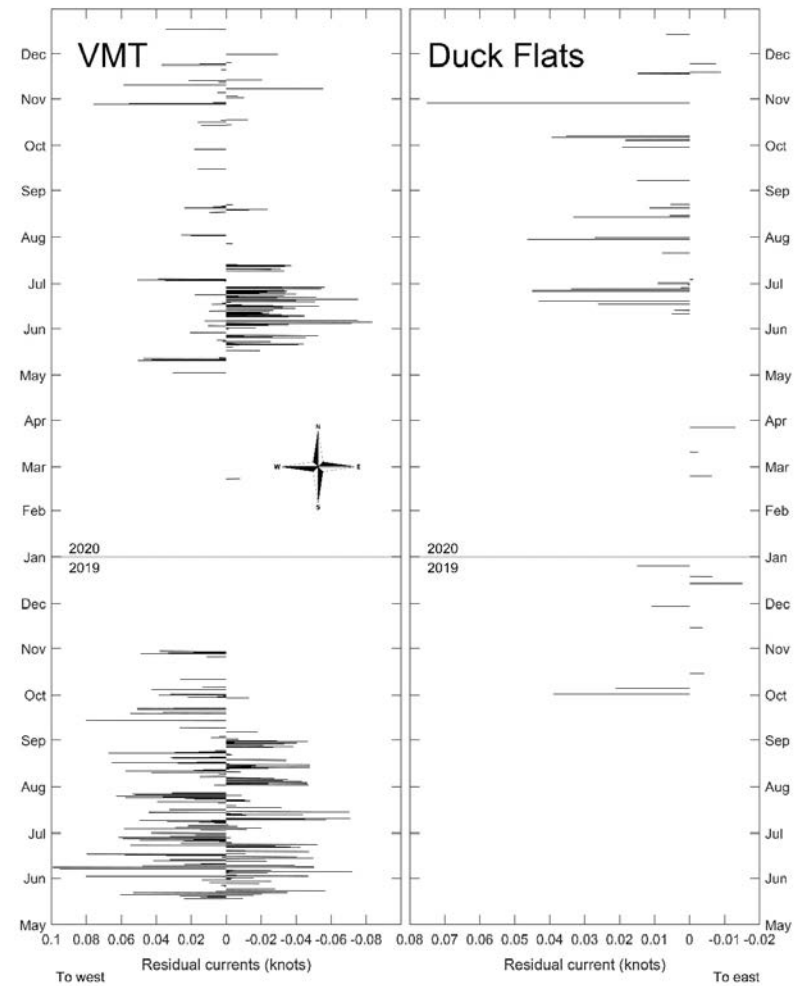
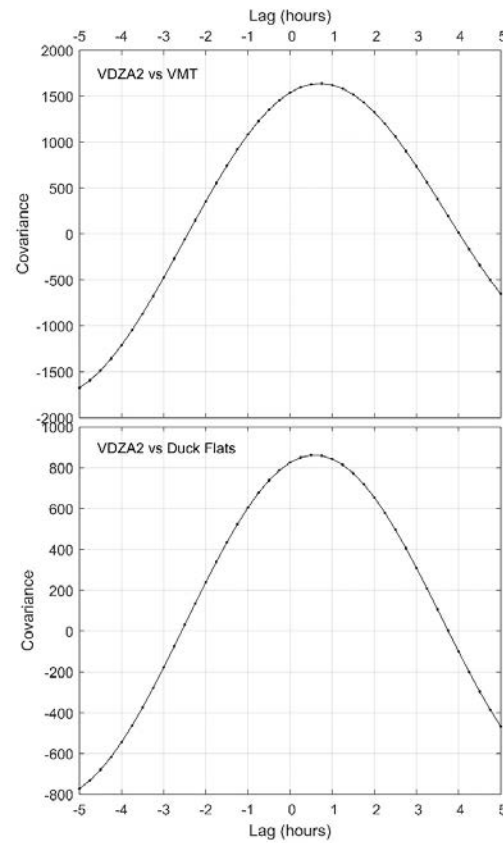


FIG. 3. (a) Low frequency decimated time series L_d ($SP_d = 5120$ s) generated during stage 1, with identified maxima (black dots) and minima (white squares). (b) The (decimated) mean M_d is a spline fit (heavy curve) to averages (white dots) of successive maxima and minima (black dots).

Detided surface currents



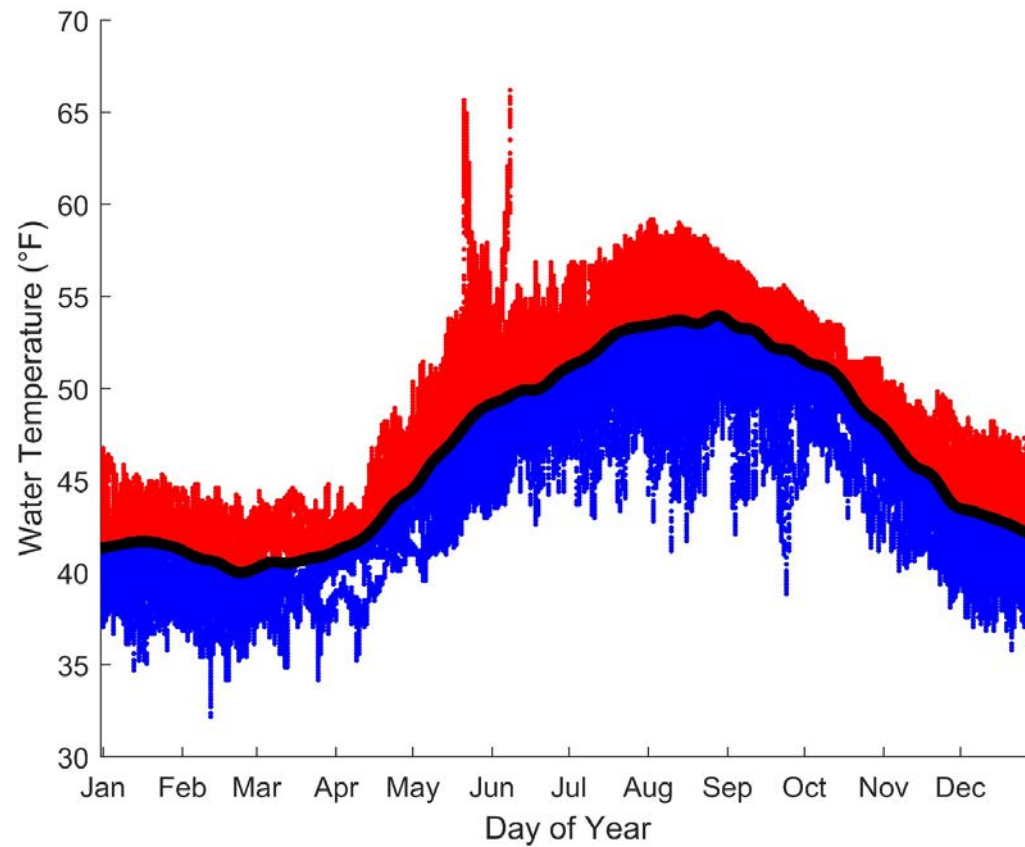
Covariance with Valdez tide station VRZA2



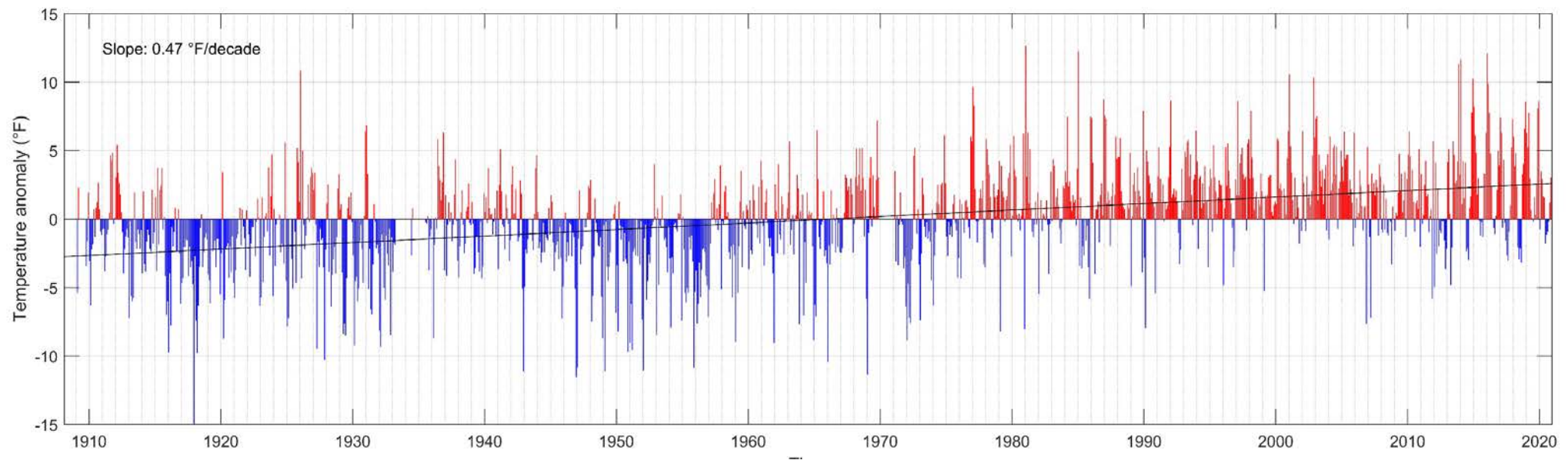
VDZA2 lags

VDZA2 leads

Temperature anomalies



VDZ monthly air temperature anomaly 1908-2020



Buoy air temperature anomalies 2019-2020

