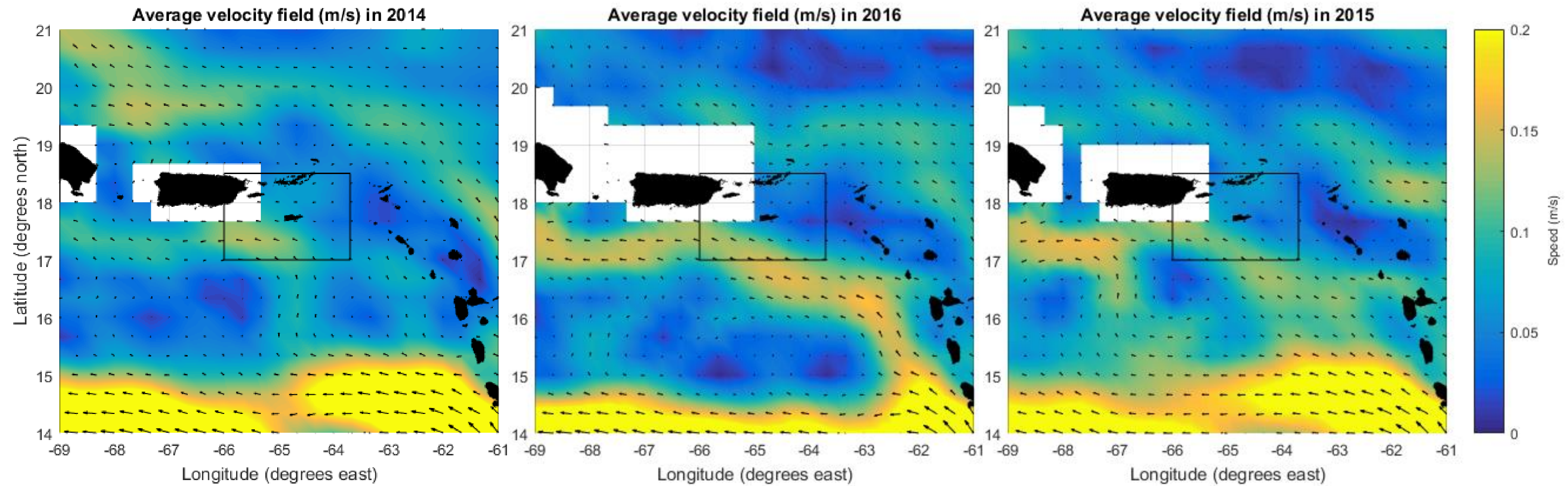
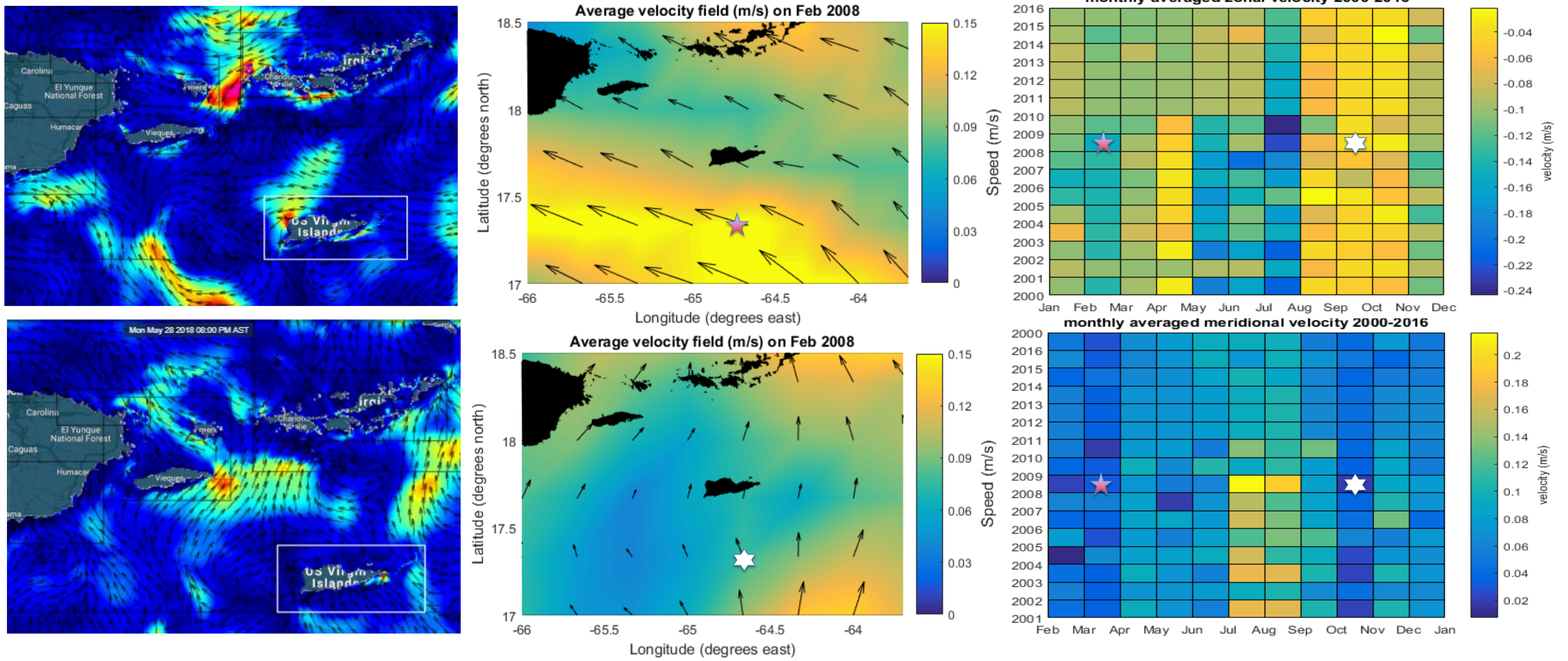


Caribbean OSCAR-derived Currents Overview

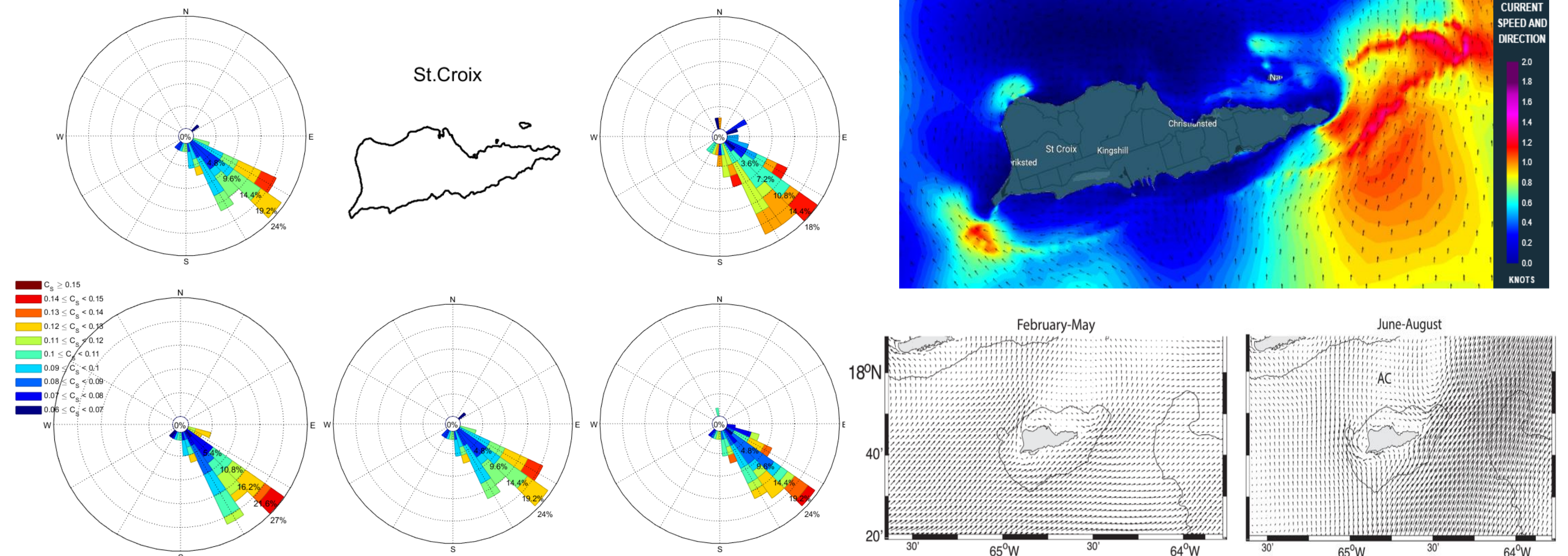
Oscar (Ocean Surface Current Analysis Real-time) data are applied to understand the influence of large-scale current forcing on the US virgin Islands. OSCAR-derived currents use geostrophic assumptions on altimetry and wind data collected from various satellites and in situ instruments, and are based on quasi-linear and steady momentum equations. The spatial resolution is 1/3 degree, with 5-day updates.



Large-scale currents in Puerto Rico and US Virgin Islands



Influence of large-scale currents on St. Croix circulation patterns



Directional distribution of averaged geostrophic forcing south of St.Croix from 2000 to 2017

Influence of large-scale geostrophic forcing on wake formation around St. Croix, from Cherubin et al., (2016)