Conditions Report

*Karenia brevis* (commonly known as Florida red tide) ranges from not present to background concentrations along the coast of southwest Florida, including the Florida Keys. No respiratory irritation is expected alongshore southwest Florida Monday, August 7 through Monday, August 14. For recent, local observations and data check Mote Marine Laboratory Daily Beach Conditions (http://visitbeaches.org/) and the Florida Fish and Wildlife Conservation Commission Red Tide Status (http://myfwc.com/redtidestatus).

Analysis

Recent samples received from along- and offshore southwest Florida, from Pinellas to Monroe counties, including the Florida Keys, all indicate that *Karenia brevis* is not present, with the exception of one sample with background concentrations collected in central Lee County (FWRI, SCHD, MML, CCPCD; 7/28-8/2).

Recent ensemble imagery (MODIS Aqua, 8/6; shown left) is partially obscured by clouds along- and offshore southwest Florida from Pinellas to Collier counties, limiting analysis. Patches of elevated to high chlorophyll (2 to >20 µg/L) are visible along- and offshore Pinellas to central Collier County with the optical characteristics of *K. brevis*, likely the result of mixed non-harmful algal blooms that continue to be reported in the region.

Forecasted winds reduce the potential for harmful algal bloom formation at the coast of southwest Florida today through Friday, August 11.

Urízar, Ludema

**Wind Analysis**

Englewood to Tarpon Springs (Venice): Variable winds (5-15 kn, 3-8 m/s) today and tomorrow. Southeast to southwest winds (5-10 kn, 3-5 m/s) Wednesday with northeast to east winds (5 kn, 3 m/s) Wednesday night. Northeast to east winds (5-10 kn) Thursday. East winds (5 kn) Friday with northwest winds Friday afternoon.
Satellite chlorophyll image and forecast winds for August 8, 2017 06Z with points representing cell concentration sampling data from July 28 to August 2: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Florida Fish and Wildlife Conservation Commission (FWC) Fish and Wildlife Research Institute. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

Verified and suspected HAB areas shown in red. Other areas with *K. brevis* optical characteristics shown in yellow (see p. 1 analysis for interpretation).