Gulf of Mexico Harmful Algal Bloom Bulletin
Region: Southwest Florida
Monday, 21 April 2014
NOAA National Ocean Service
NOAA Satellite and Information Service
NOAA National Weather Service
Last bulletin: Monday, April 14, 2014

Conditions Report
Not present to background concentrations of *Karenia brevis* (commonly known as Florida red tide) are present along- and offshore portions of southwest Florida, and not present in the Florida Keys. No respiratory irritation is expected alongshore southwest Florida Monday, April 21 through Monday, April 28. Check [http://tidesandcurrents.noaa.gov/hab/beach_conditions.html](http://tidesandcurrents.noaa.gov/hab/beach_conditions.html) for recent, local observations.

Analysis
Samples collected over the last week along the coast of southwest Florida from Pinellas to central Collier counties all indicate that *Karenia brevis* is not present, with the exception of one sample that identified background concentrations alongshore Lee County at Lover’s Key State Park. (FWRI, MML, SCHD; 4/11-4/18).

Recent MODIS Aqua imagery (4/20, shown left) is almost completely obscured by clouds along the coast of southwest Florida, limiting analysis. Patches of elevated chlorophyll (2-3 μg/L) are visible along- and offshore portions of Pinellas and Collier counties.

Harmful algal bloom formation at the coast of southwest Florida is not expected today through Monday, April 28.

Derner, Davis

Wind conditions from Venice Pier, FL

Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA’s National Weather Service (NWS).

Wind Analysis
**Southwest Florida:** North to northwest winds (5-15kn, 3-8m/s) today and tonight becoming east (5-10kn, 3-5m/s) after midnight. Southeast winds (5kn, 3m/s) Tuesday becoming west (10kn, 5m/s) in the afternoon. Northwest winds (10kn) Tuesday night through Wednesday. Southeast winds (5kn) Thursday becoming southwest in the afternoon though Thursday night. South winds (5kn) Friday becoming west Friday afternoon.
Satellite chlorophyll image and forecast winds for April 22, 2014 06Z with points representing cell concentration sampling data from April 11 to 18: 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:
http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf

Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).