**Gulf of Mexico Harmful Algal Bloom Bulletin**

Region: Southwest Florida  
Monday, 29 July 2013  
NOAA National Ocean Service  
NOAA Satellite and Information Service  
NOAA National Weather Service  
Last bulletin: Monday, July 22, 2013

**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 Monday, July 29 through Monday, August 5. Check [http://tidesandcurrents.noaa.gov/hab/beach_conditions.html](http://tidesandcurrents.noaa.gov/hab/beach_conditions.html) for recent, local observations.

**Analysis**  
Background concentrations of *Karenia brevis* were identified from one sample collected alongshore southern Pinellas County and one sample collected alongshore northern Sarasota County (FWRI, MML; 7/22). All other samples collected along- and offshore southwest Florida, from Pinellas to Monroe County, including the Florida Keys, did not indicate the presence of *K. brevis* (FWRI, MML, SCHD, CCPCPD; 7/19-7/25). No dead fish or respiratory irritation associated with *K. brevis* have been reported in the past week (FWRI, MML; 7/22-28). Alongshore Lee County, patches of discolored water have been reported, due to fresh, tannin-rich water, not an algal bloom (FWRI, 7/26).

MODIS imagery has been partially obscured by clouds alongshore southwest Florida over the past several days, limiting analysis. In recent MODIS Aqua imagery (7/27, shown left; 7/28, not shown), patches of elevated to very high chlorophyll (3 to >20 µg/L) are visible along- and offshore from southern Pinellas to Collier counties. Elevated chlorophyll at the coast is likely the result of mixed non-harmful algal blooms that continue to be reported in many southwest Florida counties. In addition, fresh, tannin-rich water has recently caused patches of discoloration in the waters alongshore Lee County (FWRI, 7/26).

Harmful algal bloom formation alongshore southwest Florida is not expected today through Monday, August 5.

Kavanaugh, Yang
Wind Analysis

Southwest Florida: North winds (5 kn, 3 m/s) today becoming northeast winds (10 kn, 5 m/s) tonight. East winds (10 kn) Tuesday becoming north to northeast winds (10 kn) Tuesday afternoon. East to southeast winds Wednesday (10 kn) becoming northwest winds (10 kn) Wednesday afternoon. East winds (10 kn) Wednesday night becoming southeast winds (10 kn) Thursday through Friday. South winds (5 kn) Friday afternoon.
Satellite chlorophyll image and forecast winds for July 30, 2013 06Z with points representing cell concentration sampling data from July 19 to 25: 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).