



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

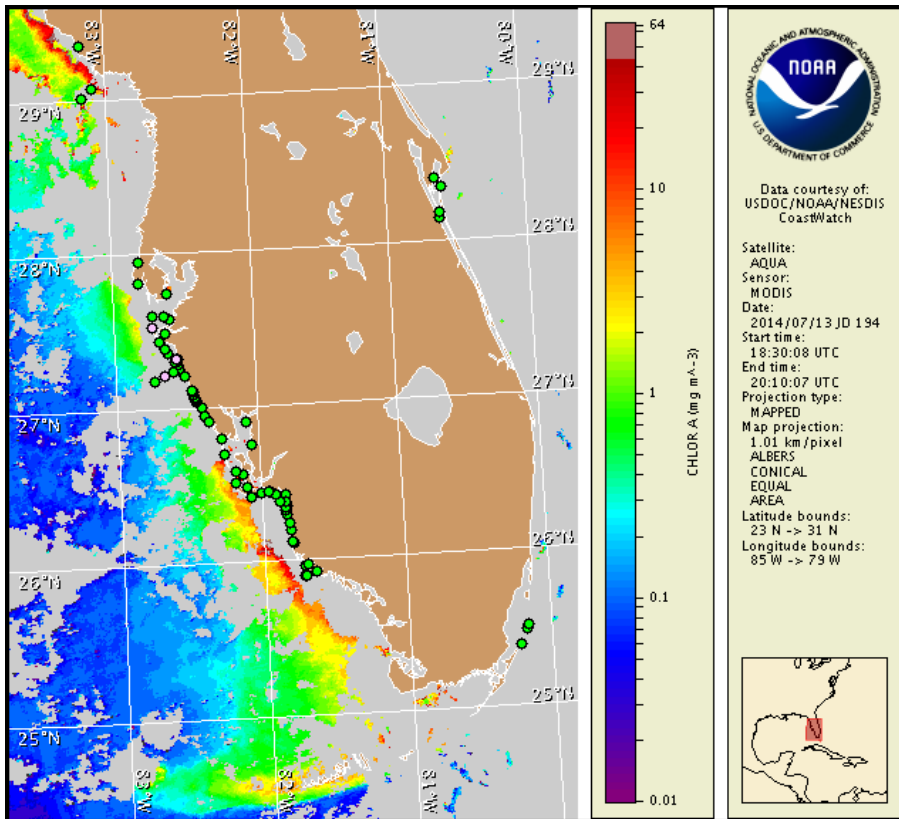
Monday, 14 July 2014

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, July 7, 2014



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from July 6 to 11: 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

Detailed sample information can be obtained through FWC Fish and Wildlife Research Institute at:

<http://myfwc.com/redtidestatus>

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit at: <http://tidesandcurrents.noaa.gov/hab/bulletins.html>

Conditions Report

Karenia brevis (commonly known as Florida red tide) ranges from not present to background concentrations along the coast of southwest Florida, and is not present in the Florida Keys. No respiratory irritation is expected Monday, July 14 through Monday, July 21. Check http://tidesandcurrents.noaa.gov/hab/beach_conditions.html for recent, local observations.

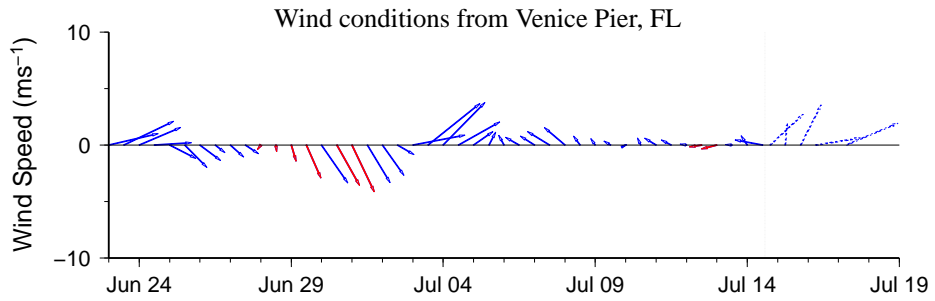
Analysis

Samples collected over the past week along- and offshore the coast of southwest Florida from Pinellas to Collier County all indicate that *Karenia brevis* is not present, with the exception of background concentrations identified in samples collected 8.8 miles offshore Siesta Key in Sarasota County, in the Sarasota Bay System at Bay Dock and New Pass, and in Manatee County at Anna Maria Island (FWRI, MML, SCHD, CCPCPD; 7/7-7/11).

Recent MODIS Aqua imagery along- and offshore southwest Florida has been mostly obscured by clouds over the past several days, limiting analysis. In MODIS Aqua imagery from 7/13 (shown left), patches of elevated to very high chlorophyll (2 to >20 $\mu\text{g/L}$) are visible offshore from central Lee to central Collier County. Elevated chlorophyll along the coast may be the result of various non-toxic blooms that have been reported throughout the region.

Harmful algal bloom formation at the coast of southwest Florida is not expected today through Monday, July 21.

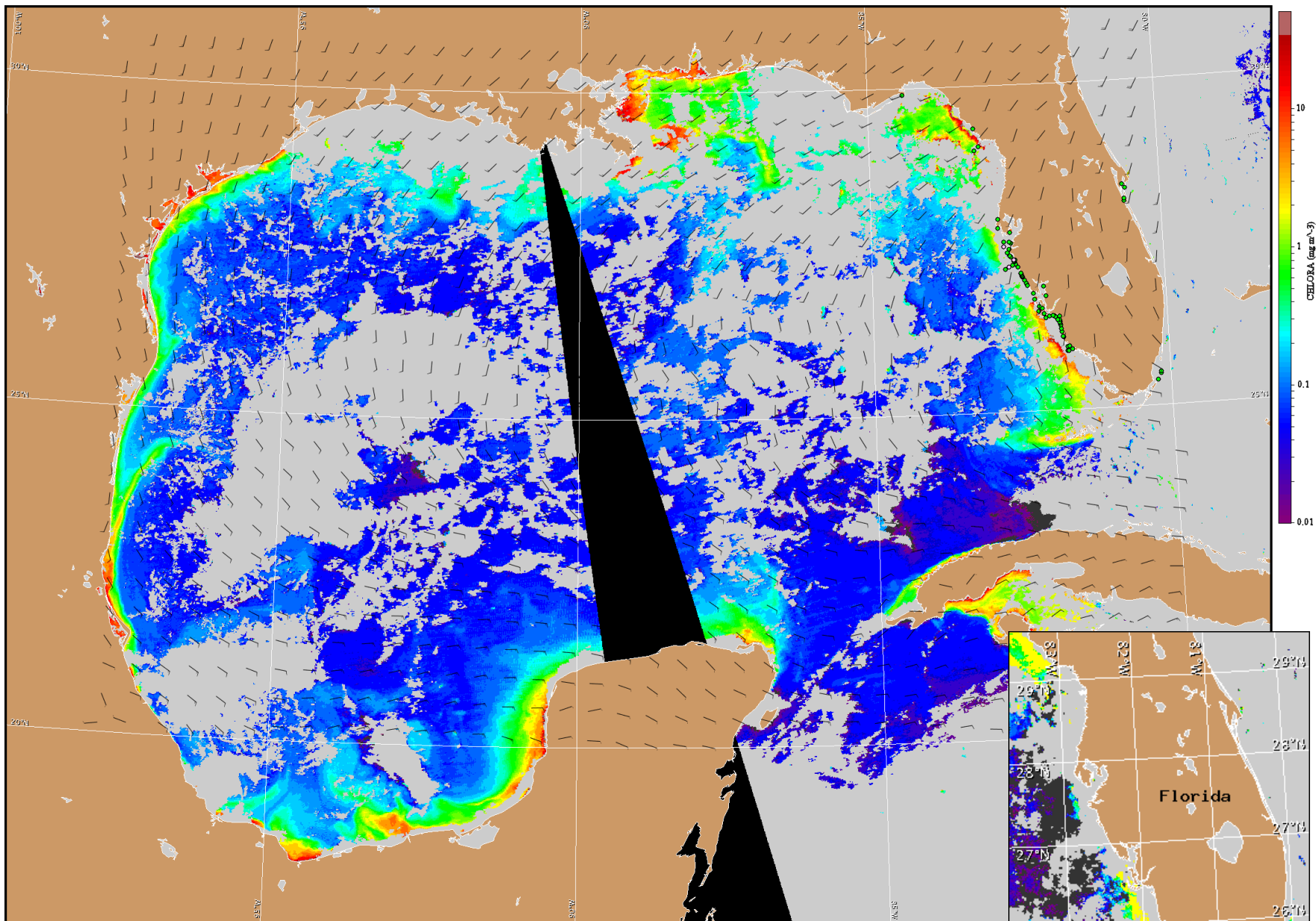
Davis, Burrows



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).

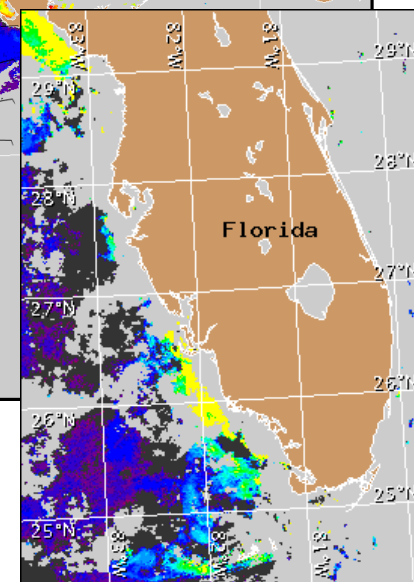
Wind Analysis

Southwest Florida: South winds (5kn, 3m/s) today becoming southwest winds in the afternoon. Southwest winds (10kn, 5m/s) tonight through Tuesday night. West winds (10kn) Wednesday through Thursday becoming southwest winds Thursday night. Southwest winds (5-10kn, 3-5m/s) Friday.



Satellite chlorophyll image and forecast winds for July 15, 2014 06Z with points representing cell concentration sampling data from July 6 to 11: 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:

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