

Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

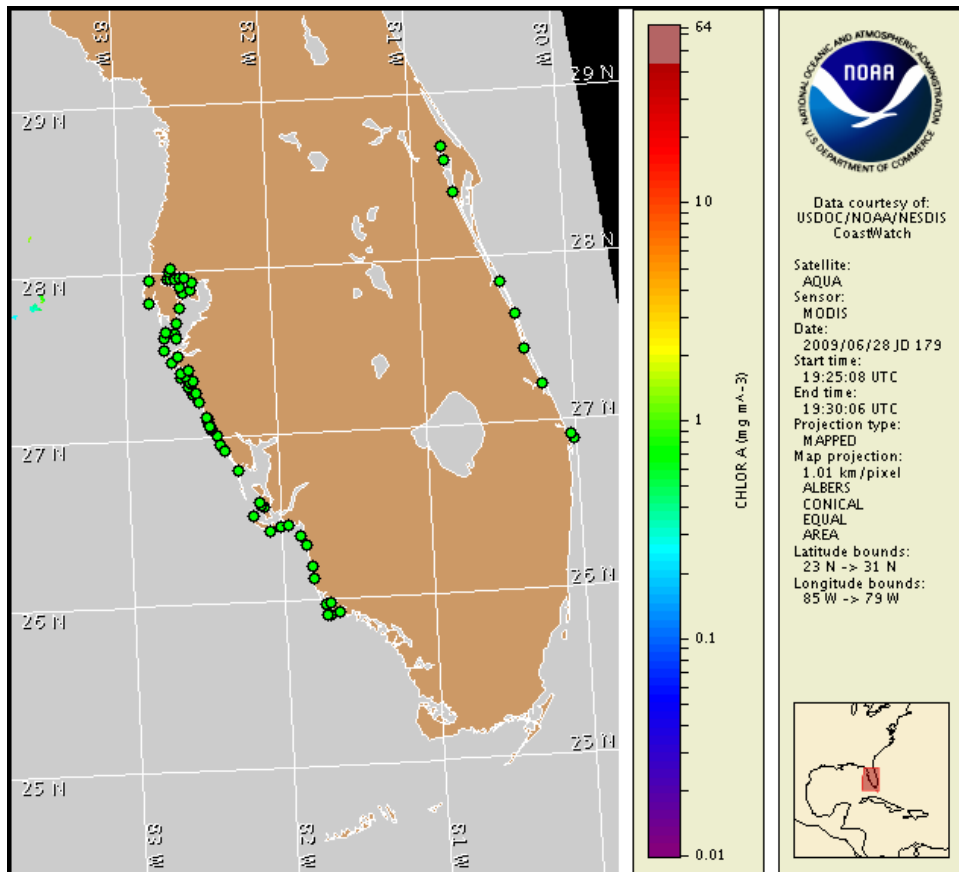
29 June 2009

NOAA Ocean Service

NOAA Satellites and Information Service

NOAA National Weather Service

Last bulletin: June 22, 2009



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from June 19 to 25 shown as red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.

Conditions Report

There is currently no indication of a harmful algal bloom at the coast in southwest Florida, including the Florida Keys. No impacts are expected alongshore southwest Florida today through Sunday, July 5. Discolored water has been reported in the northwestern region of Tampa Bay over the last week. This discoloration is attributed to a bloom of the algae *Pyrodinium bahamense* which does not produce respiratory irritation impacts associated with the Florida red tide caused by *Karenia brevis*.

Analysis

There is currently no indication of a bloom in southwest Florida. The most recent samples from alongshore Pinellas, Manatee, Sarasota, Charlotte, Lee and Collier counties all indicate that *Karenia brevis* is not present (SCHD, MML, FWRI 6/22-26). Additional samples taken from Sarasota Bay indicate that *Karenia brevis* is no longer present (SCHD, 6/22).

MODIS satellite imagery remains cloudy limiting analysis of previously identified chlorophyll features alongshore southern Lee and central Collier counties and offshore Monroe County.

Reports of discolored water in the northwestern Tampa Bay region are associated with a bloom of *Pyrodinium bahamense*. No *K. brevis* has been identified and no impacts have been reported as a result of the bloom (FWRI, 6/26).

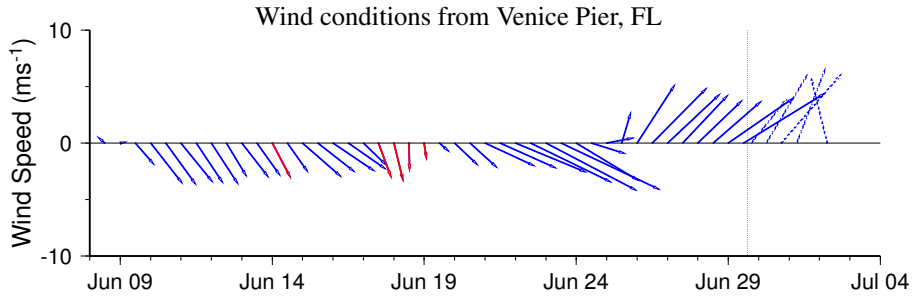
Harmful algal bloom formation alongshore southwest Florida is not expected today through Sunday, July 5.

Due to technical difficulties SeaWiFS imagery is presently unavailable. MODIS imagery has been used for bloom analysis and is displayed on this bulletin.

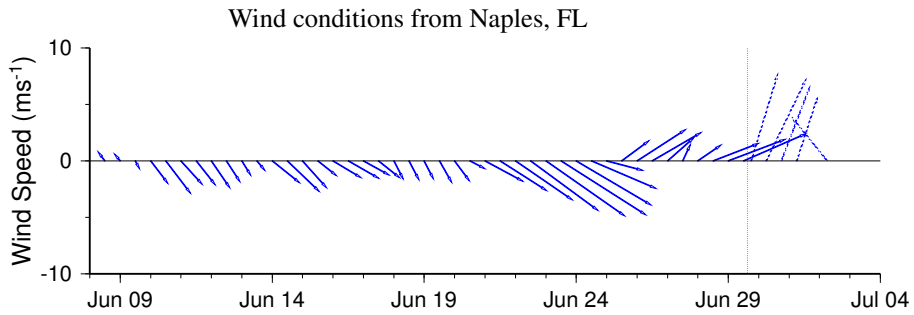
-Lindley, Fisher

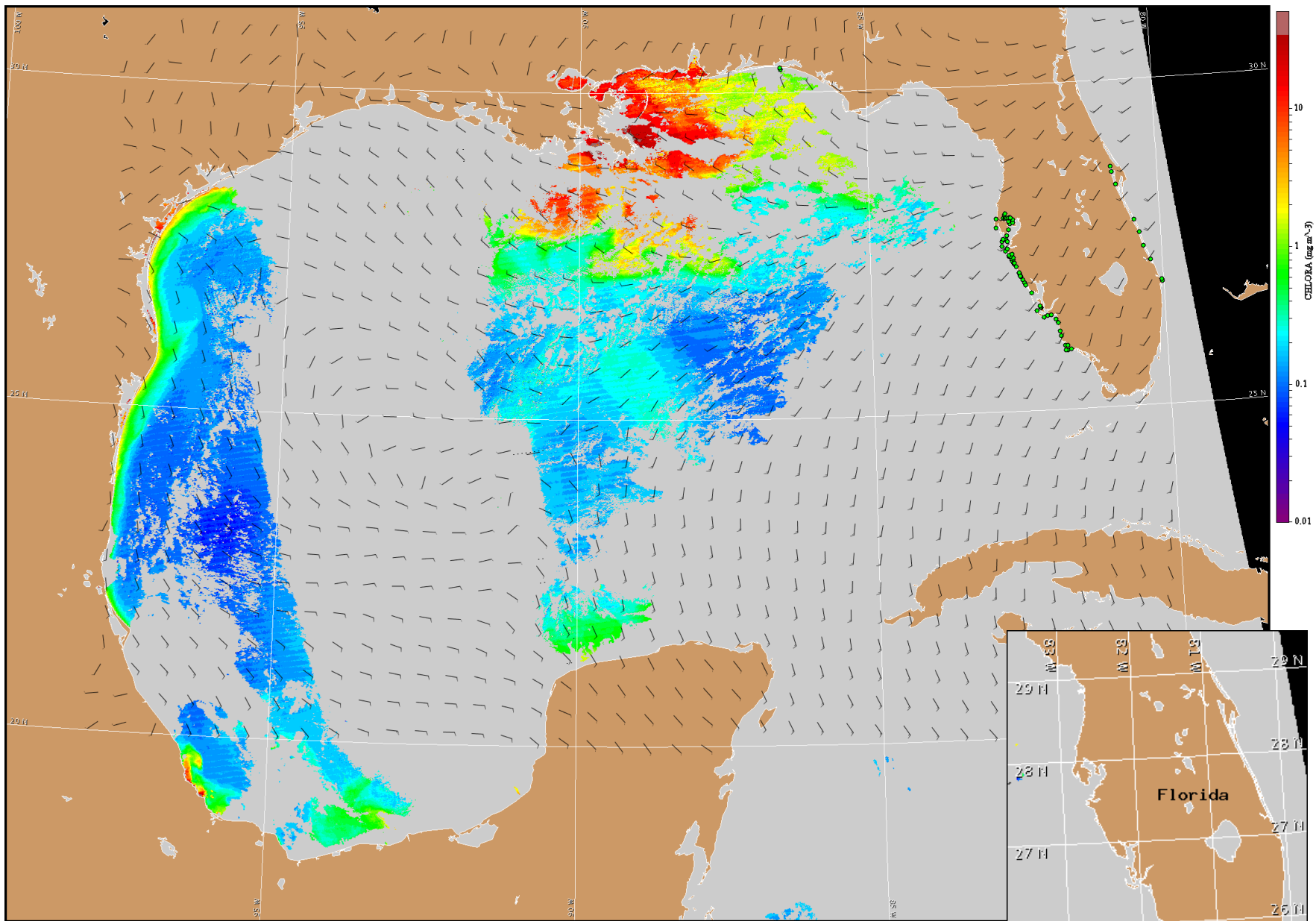
Wind Analysis

Southwest Florida: Southwest winds today through Wednesday (10-15 kn, 5-8 m/s).
Northwest winds Thursday (10 kn, 5 m/s). Westerly winds Friday (5-10 kn, 3-5 m/s).



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).





Satellite chlorophyll image and forecast winds for June 30, 2009 12Z with Cell concentration sampling data from June 19 to 25 shown as red (high), orange (medium), yellow (low b), brown (low a), blue(very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS 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).