



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

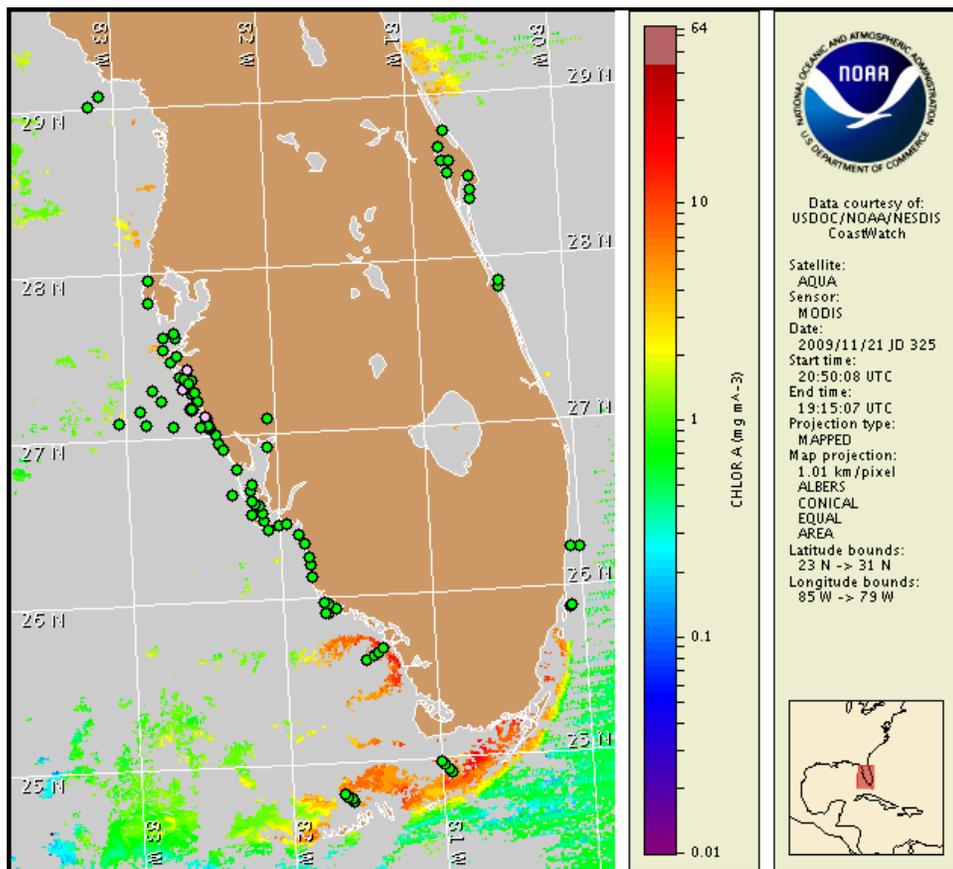
23 November 2009

NOAA Ocean Service

NOAA Satellites and Information Service

NOAA National Weather Service

Last bulletin: November 19, 2009



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from November 13 to 20 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

A harmful algal bloom has been identified in patches onshore central Collier County. A harmful algal bloom was last identified on 11/09 in the San Carlos Bay region of central Lee County. Also, a harmful algal bloom has been identified offshore central Sarasota County. No impacts are expected today through Thursday in central Lee County. No impacts are expected today through Wednesday and very low impacts are possible on Thursday in central Collier County. No additional impacts are expected alongshore southwest Florida today through Thursday, November 26.

Analysis

A harmful algal bloom containing 'present' to 'very low a' concentrations of *Karenia brevis* was identified in central Collier County on 11/16 (CCPCPD). Sampling reports on 11/9 indicated the presence of a patchy harmful algal bloom (up to 'medium' concentrations at Sanibel Ramp) onshore central Lee County (FWRI, CCPCPD; 11/9). However, samples at nearby locations at Sanibel Island (Lighthouse Beach & Tarpon Beach) indicate that *K. brevis* is no longer present (11/18; FWRI).

Background concentrations of *K. brevis* were identified in Sarasota County (11/18; MML) and in Manatee County (11/17; FWRI). In addition, a 'Low a' concentration of *K. brevis* was identified 4 miles offshore of Sarasota County (11/16; MML).

Recent satellite imagery is cloudy and limits analysis of bloom extent.

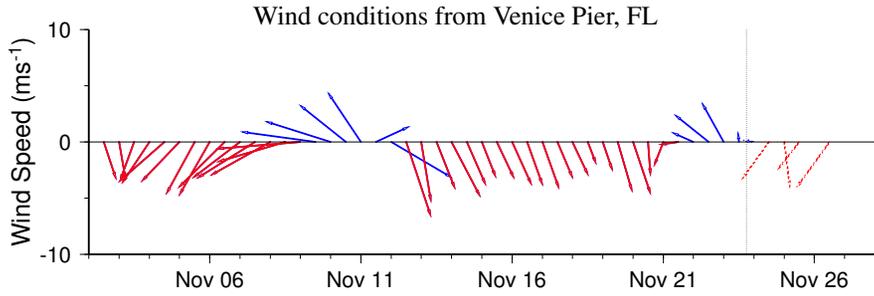
Variable, offshore winds (except Thursday) over the next several days will likely decrease the potential for impacts and continued dissipation of the bloom is likely.

****Due to the Federal Holiday, the next bulletin will be issued on Friday, November 27, 2009****

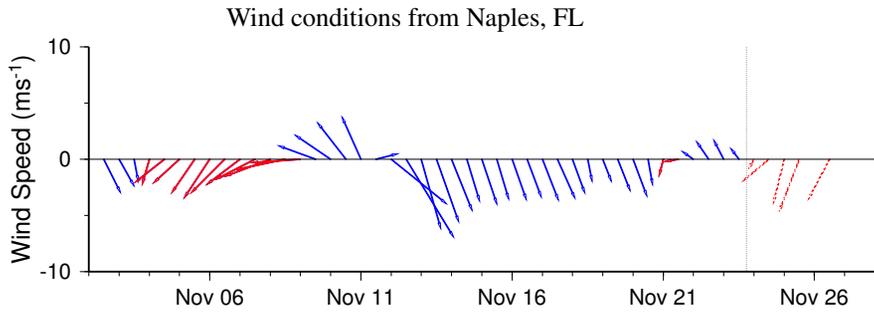
-Fenstermacher, Fisher

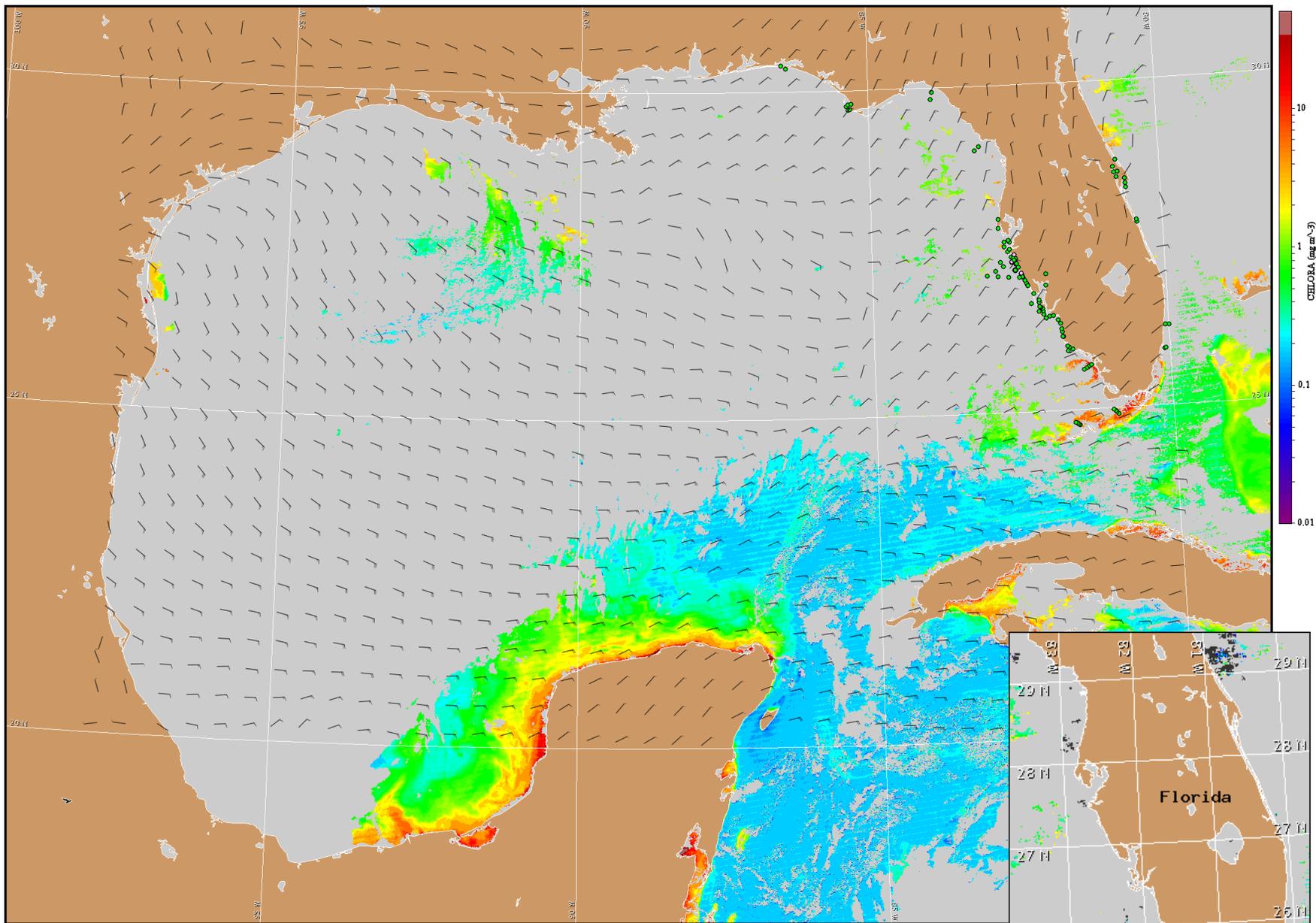
Wind Analysis

Variable winds down the coast of SW Florida. Northeasterly to southerly winds today and Tuesday (5-10 kn; 3-5 m/s). Southeasterly to easterly winds on Wednesday (5-15 kn; 3-8 m/s). Northwest to northeasterlies on Thursday (10-20 kn; 5-10 m/s).



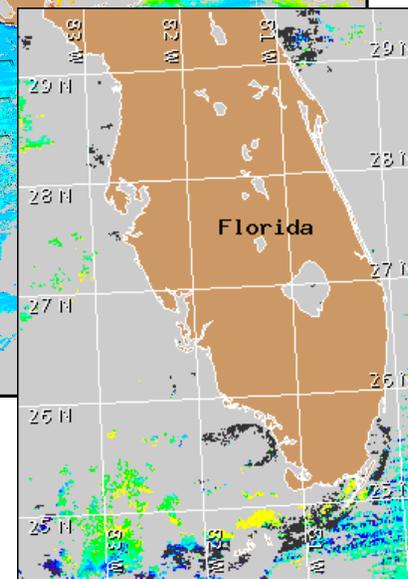
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.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





Satellite chlorophyll image and forecast winds for November 24, 2009 12Z with Cell concentration sampling data from November 13 to 20 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



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