



Gulf of Mexico Harmful Algal Bloom Bulletin

25 October 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: October 22, 2007

Conditions Report

NE Florida: A harmful algal bloom has been identified from Duval to central Volusia County. Today through Sunday, patchy moderate impacts are possible in Duval and northern Volusia Counties and patchy high impacts are possible in St. Johns and Flagler Counties. No impacts are expected elsewhere in northeast Florida today through Sunday.

SW Florida: Harmful algae has been identified in southern Lee and northern Collier Counties. No impacts are expected today through Sunday in southwest Florida.

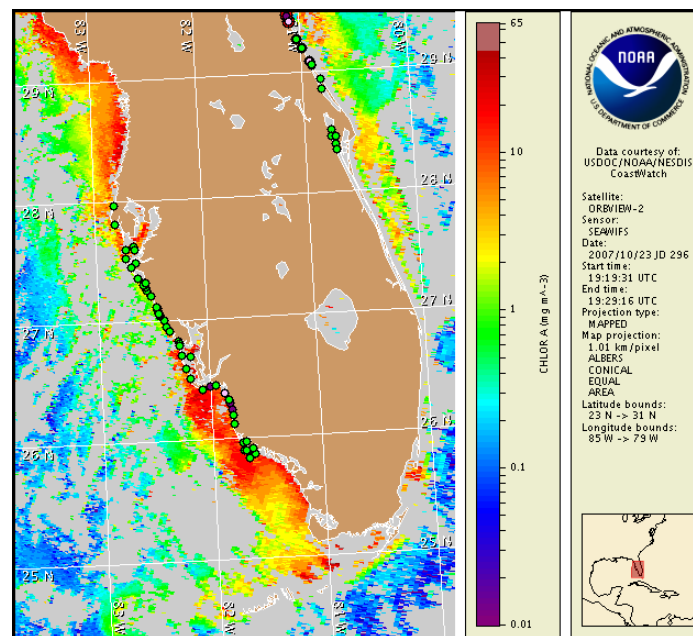
Analysis

NE Florida: A harmful algal bloom persists along northeast Florida from Duval to central Volusia County. Although medium concentrations of *K. brevis* remain present alongshore Duval County, FWRI sampling results indicate a decrease in concentrations over the past week alongshore Flagler County (very low and not present), and Volusia County (background concentrations and not present) as of 10/23. Chlorophyll levels remain high ($>10\mu\text{g/L}$) alongshore much of northeast Florida; however levels appear highest slightly offshore Duval County (centralized at $30^{\circ}18'11''\text{N}$, $81^{\circ}16'30''\text{W}$) and St. Johns County (approx. 14-19nm from shore) according to satellite imagery on 10/23. Reports of dead fish and respiratory irritation have been received from St. Johns County over the past few days. Winds are expected to be mainly onshore and mild throughout the weekend. This will likely maintain the present extent of the bloom and limit intensification. Conditions may increase the potential for impacts throughout the weekend, particularly in Duval and St. Johns Counties.

SW Florida: A harmful algal bloom was identified onshore southern Lee and northern Collier Counties last week. No *K. brevis* was identified alongshore Collier County this week where concentrations were previously reported to be very low (FWRI, 10/18). No additional sampling information is available for southern Lee County. Chlorophyll levels remain high along Charlotte to Collier County, with maximum chlorophyll levels visible southwest of Sanibel Island near $26^{\circ}20'47''\text{N}$, $82^{\circ}9'13''\text{W}$ based on satellite imagery from 10/23. Sampling is recommended. Conditions throughout the weekend will minimize impacts at the coast. Southerly transport of *K. brevis* is possible through Sunday. ~Fisher, Fenstermacher

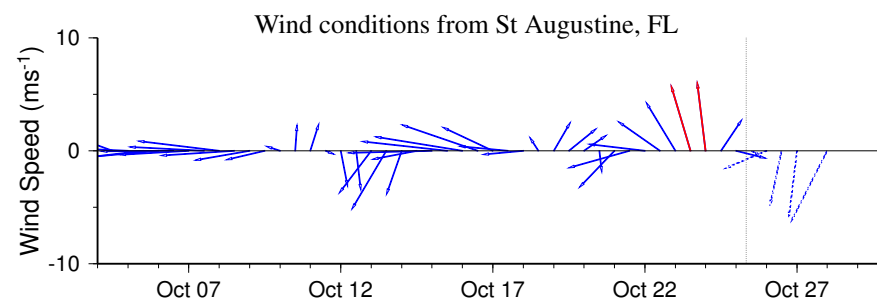
Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

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.



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from October 15 to 23 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:

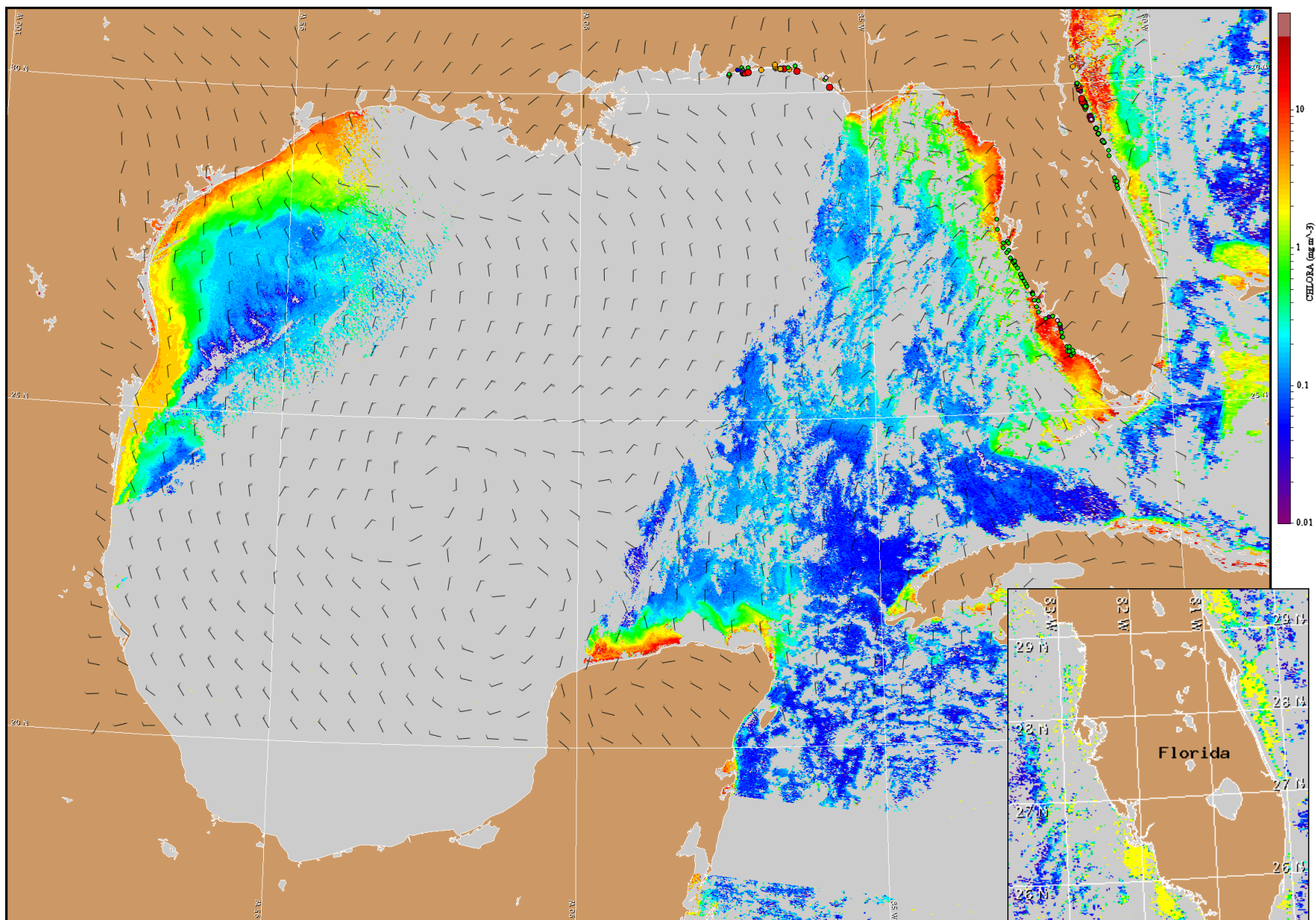
http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf



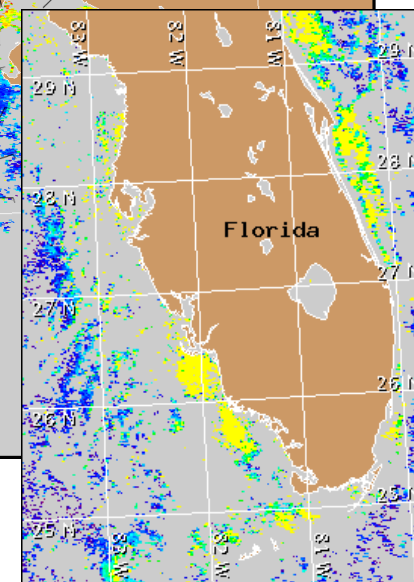
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

NE Florida: Northeast winds today (5-10kts, 3-5m/s) becoming southerly Friday and shifting easterly Friday night. Easterly to northeasterly winds Saturday, becoming easterly Sunday. Stronger northeasterly winds expected Monday.

SW Florida: Northerly winds today (10kts, 5m/s) shifting northeasterly tonight and continuing through Sunday (10-15kts, 5-8m/s). Easterly winds expected Monday.



Satellite chlorophyll image and forecast winds for October 26, 2007 12Z with Cell concentration sampling data from October 15 to 23 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://www.csc.noaa.gov/crs/habf/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).

Wind conditions from Naples, FL

