



Gulf of Mexico Harmful Algal Bloom Bulletin

15 October 2004

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: October 13, 2004

Analysis

Conditions:

Patchy areas of very low harmful algae concentrations identified near Sarasota October 4-7. Some intermittent very low impacts at the beach are possible through Tuesday. Analysis does not indicate harmful algae presence elsewhere in Florida.

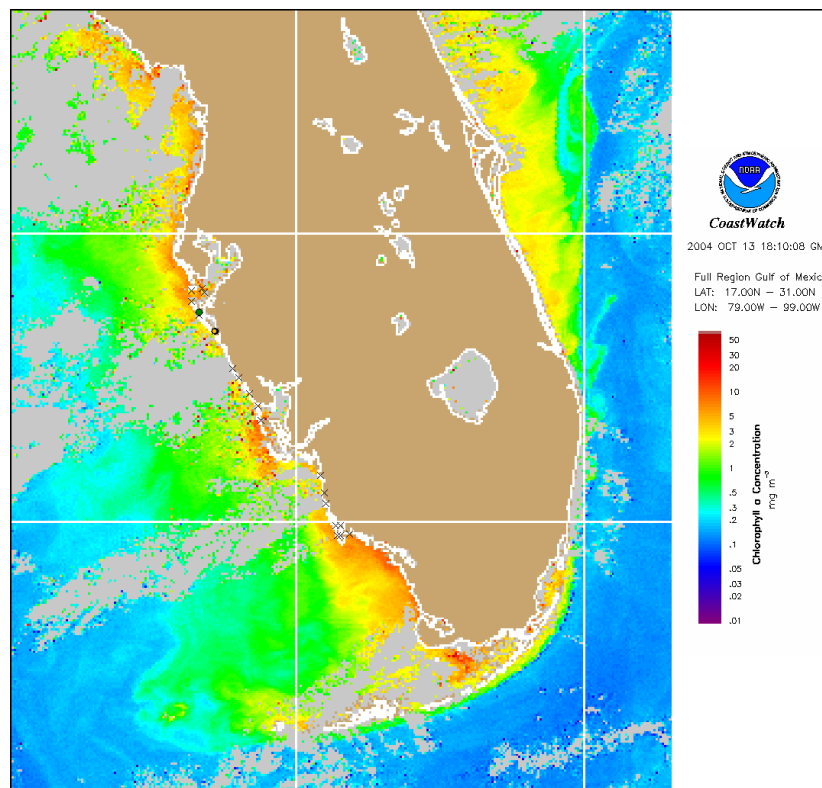
Analysis:

Although elevated chlorophyll levels are still present at the mouth of Tampa Bay and near Sarasota, satellite imagery does not indicate the intensification of existing blooms since FWRI last reported a very low presence of *K. brevis* in and around New Pass and the Sarasota area (October 8). Imagery indicates slight intermittent intensification of chlorophyll levels ($>10\mu\text{g/L}$) just south of Sanibel Island ($26^{\circ}19'\text{N}$, $82^{\circ}10'\text{W}$). No sampling reports available for this area. Some southward and onshore transport possible today through Tuesday in the Tampa Bay area. Very low impact effects on the coast are possible in the Sarasota area. Winds do not favor intensification in the Charlotte Harbor/Sanibel region, some northerly transport of existing chlorophyll features possible early next week.

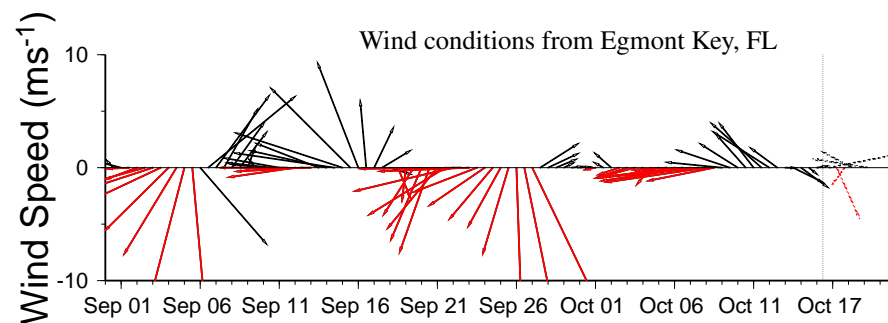
~Fisher, Vincent

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4. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.

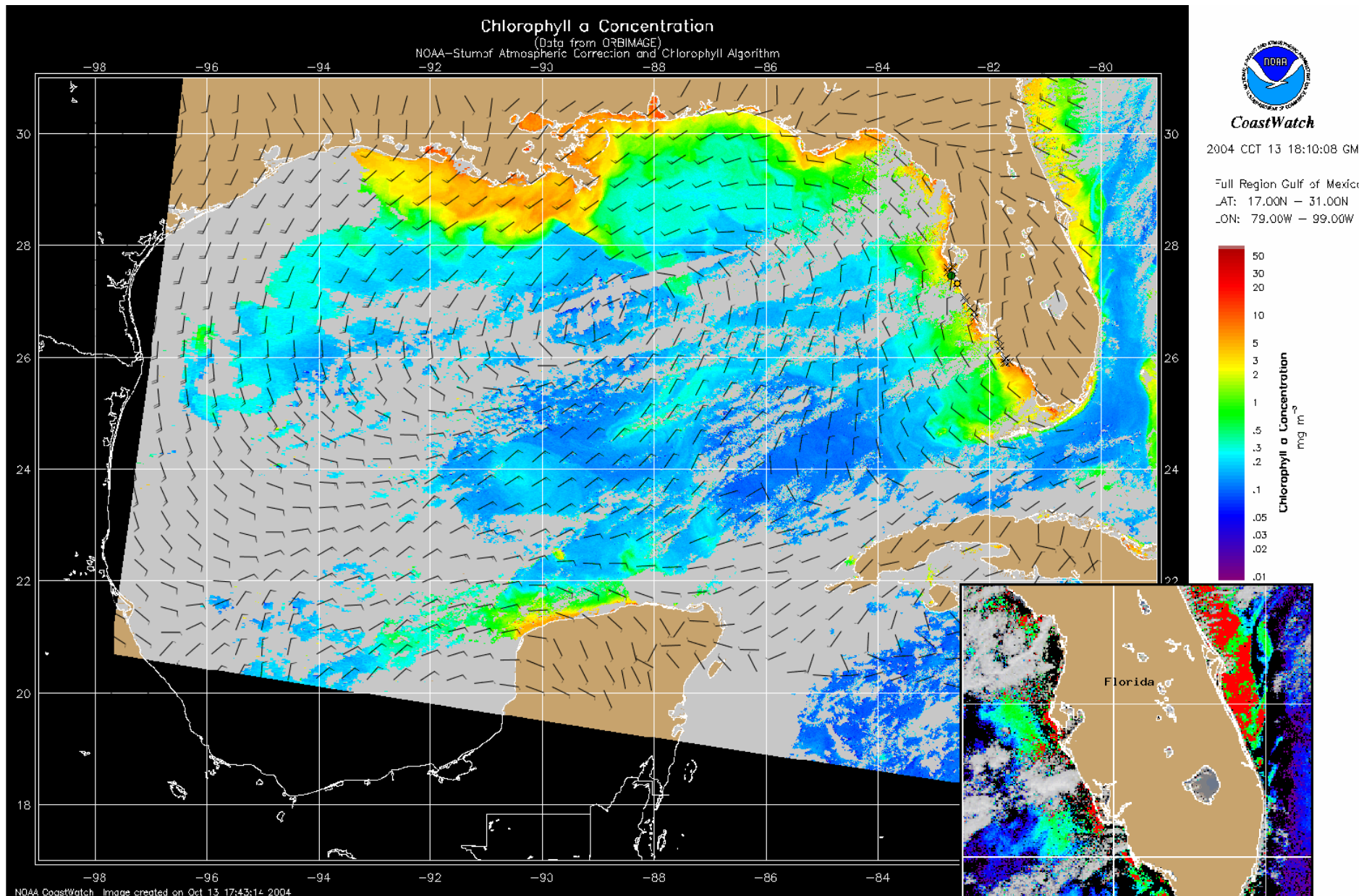


Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from October 10, 2004 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. 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.

Winds in the Tampa Bay region expected to be southwesterly today shifting to the northwest Saturday, then becoming southeasterly Sunday into Tuesday. Winds in the Charlotte Harbor area expected to shift to the north tonight into Saturday, then become easterly throughout the weekend into Tuesday.



Chlorophyll concentration from satellite and forecast winds for October 16, 2004 06Z with cell concentration sampling data from October 10, 2004 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis and image for interpretation)