



Gulf of Mexico Harmful Algal Bloom Bulletin

13 October 2004

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: October 7, 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 Saturday. Analysis does not indicate harmful algae presence elsewhere in Florida.

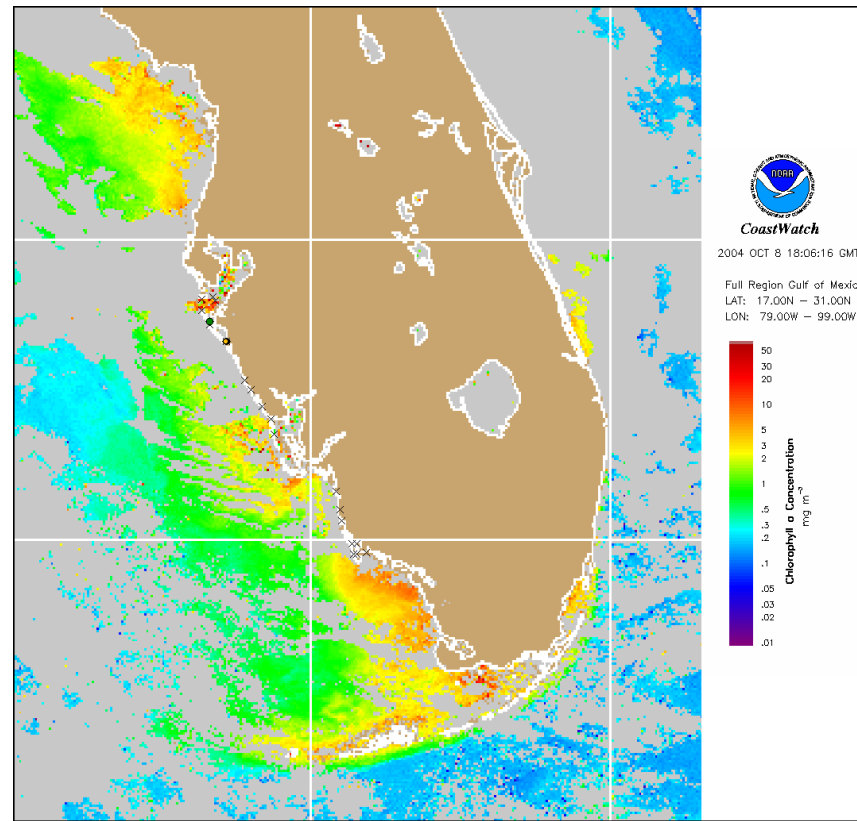
Analysis:

Although most recent satellite imagery has been obscured by clouds, imagery from October 8 indicated patchy regions of high chlorophyll (above 10ug/L) at the mouth of Tampa Bay and offshore near Sarasota. Sampling reported by FWRI from October 4-7 indicated a very low presence of *K. brevis* in and near New Pass and the Sarasota area. Elevated chlorophyll levels up to 9ug/L also indicated by imagery just south of Sanibel at 26d22'N, 82d07'W. No *K. brevis* found between Fort Myers and Naples, between Venice and Boca Grande, or north of Sarasota to St. Petersburg. As winds shift to the west, southerly and onshore transport of blooms is likely. Very low impact effects on the coast are possible in the Sarasota area.

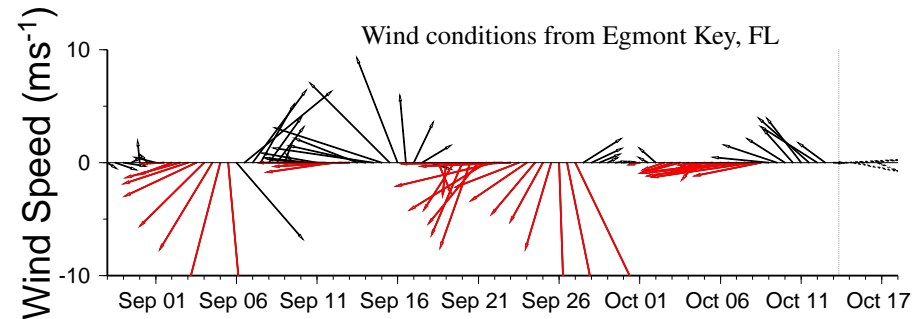
~Fisher, Stolz

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1. These data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
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3. There are restrictions on Internet/Web/public posting of these data.
4. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.

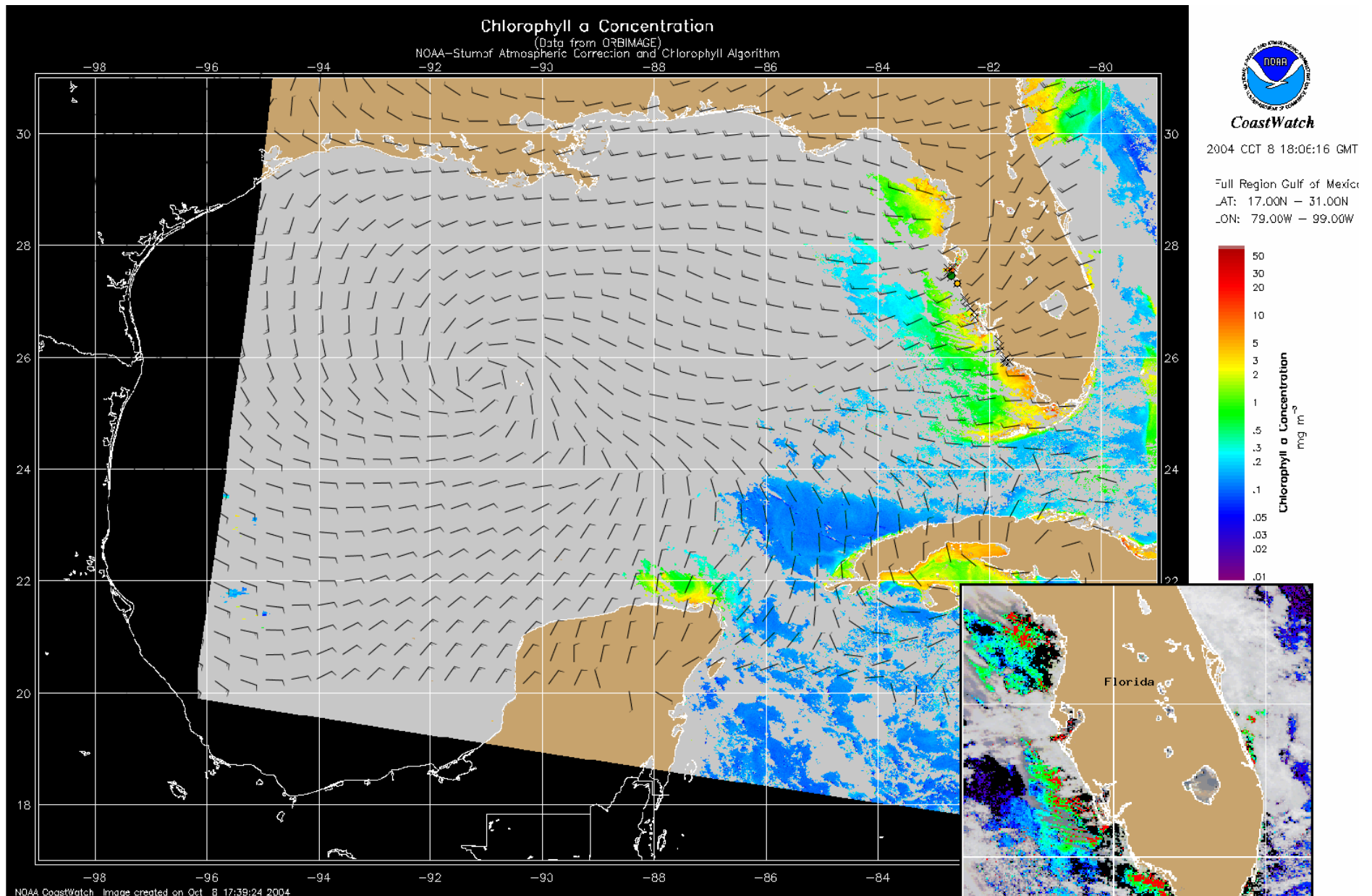


Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from October 10, 2004 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green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

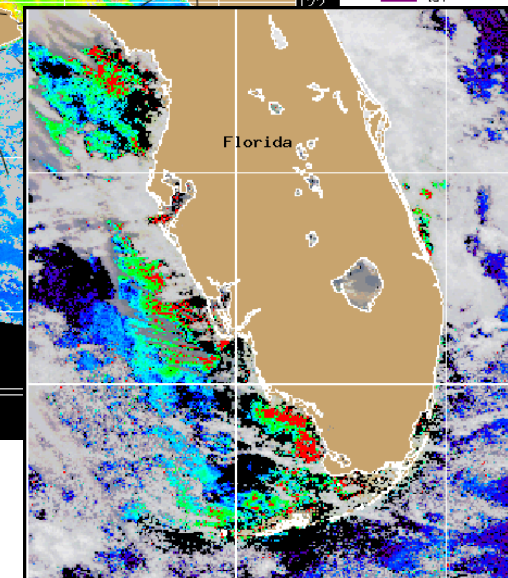


Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right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

Southeasterly winds dominating the SW Florida coast over the past few days are expected to shift to westerly and northwesterly through Saturday.



Chlorophyll concentration from satellite and forecast winds for October 14, 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)