



Gulf of Mexico Harmful Algal Bloom Bulletin

11 October 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: October 6, 2005

Conditions: Harmful algal blooms have been identified from Pinellas to Collier County, Dixie to Levy County, and in patches from Escambia to Franklin County. Patchy low impacts are expected through Thursday from Pinellas to northern Sarasota County, and southern Lee to Collier County, with very low impacts expected from southern Sarasota to northern Lee County. Patchy very low impacts expected through Thursday from Dixie to Levy County, and from Escambia to Walton Counties. Patchy low impacts are possible in Santa Rosa, Bay, Gulf, and Franklin Counties through Thursday. Dead fish have been reported over the last few days in Okaloosa, Bay, Franklin, Taylor, and Lee Counties. Dead fish smell, while unpleasant, does not produce the same respiratory irritation as red tide.

Analysis: The bloom persists along southwest Florida from Pinellas to Collier County. High chlorophyll levels persist in patches along the coast, with a high chlorophyll band (over $25\mu\text{g/L}$) along Collier and Monroe Counties from $26^{\circ}2'N$ to $25^{\circ}23'N$. The bloom is mixed in this southern extent, but *K. brevis* concentrations have increased to a medium concentration in Collier County. Sampling recommended in Monroe County. Medium to high concentrations of *K. brevis* were found in Pinellas, Manatee, Lee, and Collier Counties, as well as high concentrations in Sarasota County (FWRI, Oct. 6-10). A patch of elevated chlorophyll ($>20\mu\text{g/L}$) is detectable via satellite imagery from approximately $26^{\circ}29'N$ $82^{\circ}31'W$ to $26^{\circ}20'N$ $82^{\circ}17'W$. Sampling is recommended.

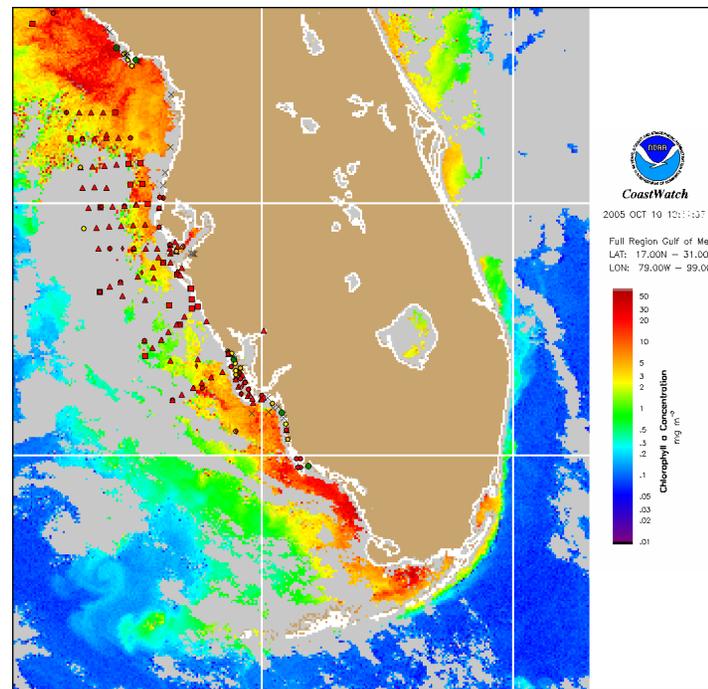
High chlorophyll levels (patches $>30\mu\text{g/L}$) persist offshore Dixie and Levy Counties. No recent samples have confirmed *K. brevis* onshore but reports of respiratory irritation offshore, last week indicate its

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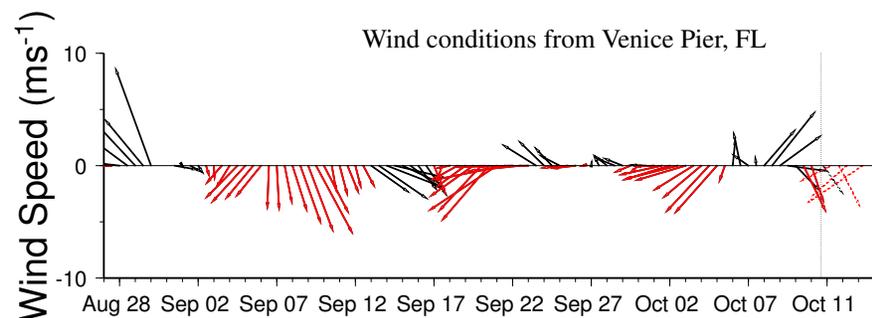
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presence offshore. Offshore sampling recommended. Northeasterly winds will minimize impacts through Thursday, however may promote upwelling conditions and bloom intensification.

-Stolz, Fisher

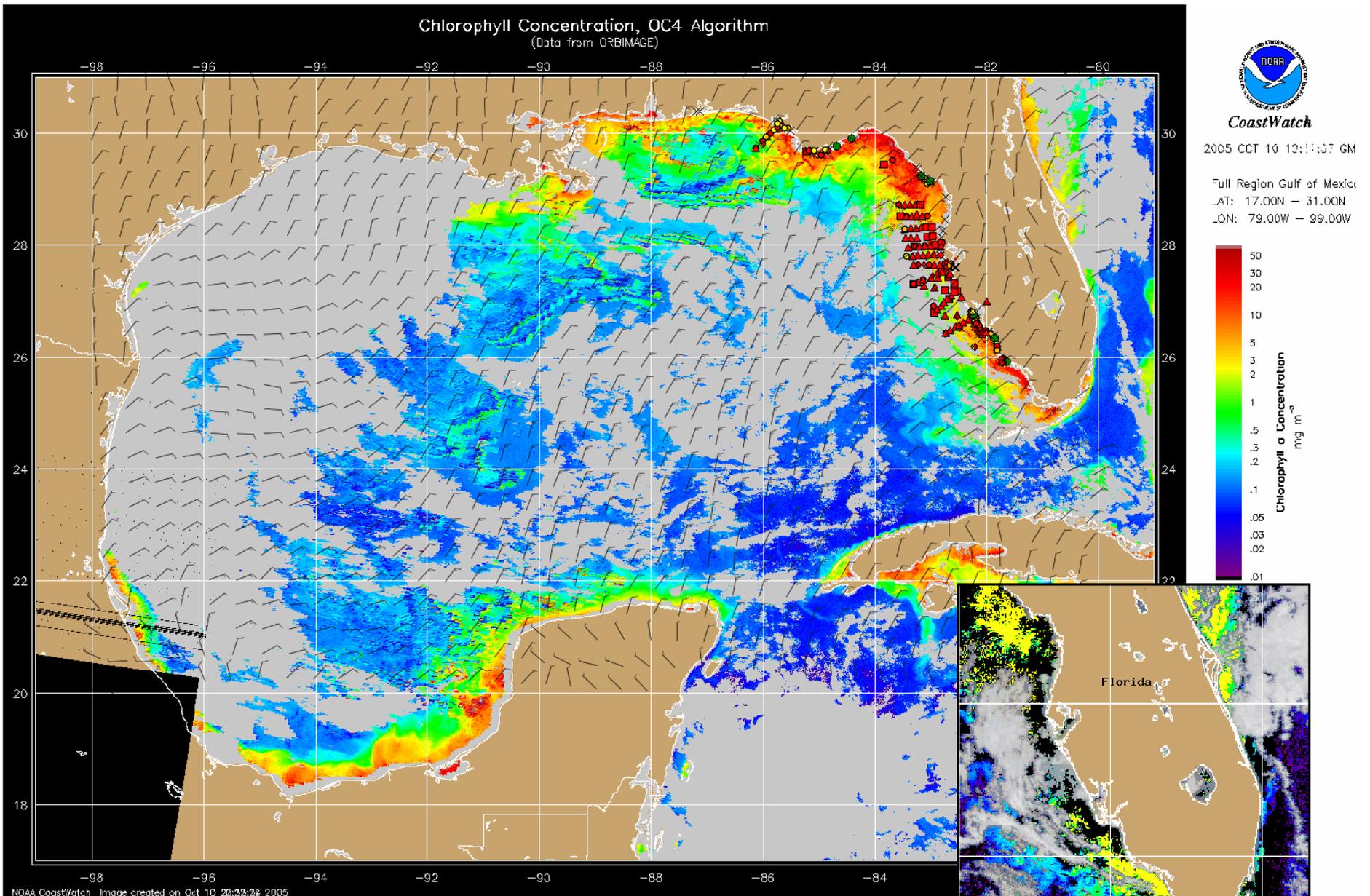


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s). Cell concentration sampling data from September 30, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (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.

Northeasterly winds today through Saturday at 10-15 knots (5-8 m/s).



Chlorophyll concentration from satellite and forecast winds for October 12, 2005 12Z with cell concentration sampling data from September 30, 2005 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)

