



Gulf of Mexico Harmful Algal Bloom Bulletin

13 October 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

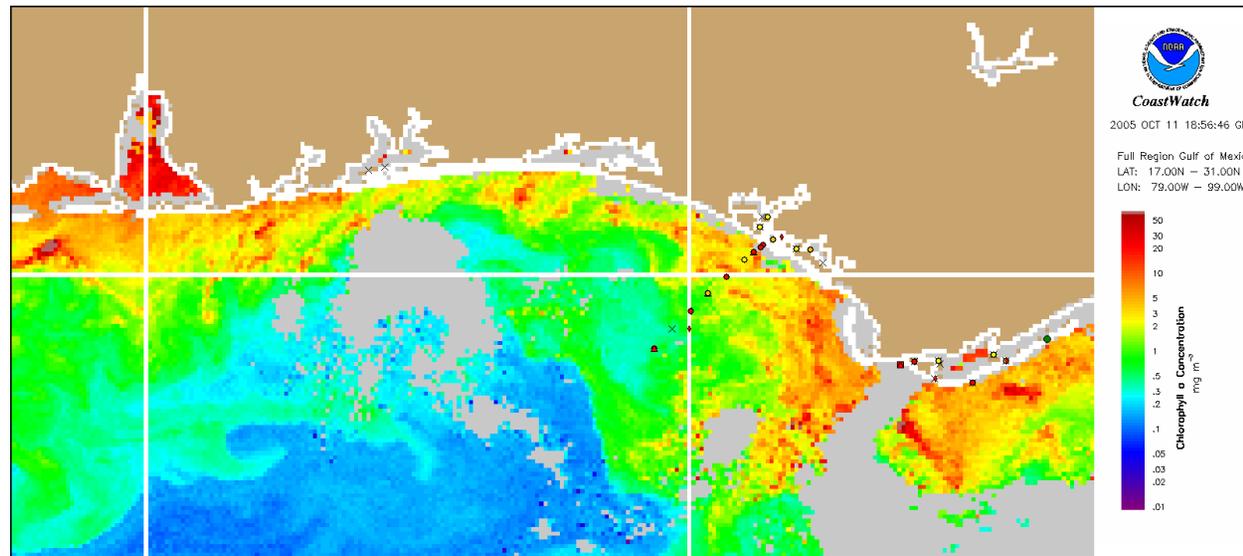
Last bulletin: October 13, 2005

Conditions: Harmful algal blooms have been identified in Florida from Pinellas to Collier County, Dixie to Levy County, and in patches along the Alabama and Florida Panhandle from Mobile County, AL to Franklin County, FL. Patchy low impacts are expected today through Sunday from Pinellas to northern Sarasota County and from southern Lee to Collier County, with very low impacts expected for southern Sarasota to northern Lee County. Patchy low impacts are possible in Bay, Gulf, and Franklin counties today through Sunday, with patchy very low impacts possible from Escambia to Walton counties and Mobile and Baldwin Counties. Dead fish have been reported over the last few days in Collier, Lee, Charlotte, Okaloosa, and Walton counties. Dead fish smell, while unpleasant, does not produce the same respiratory irritation as red tide.

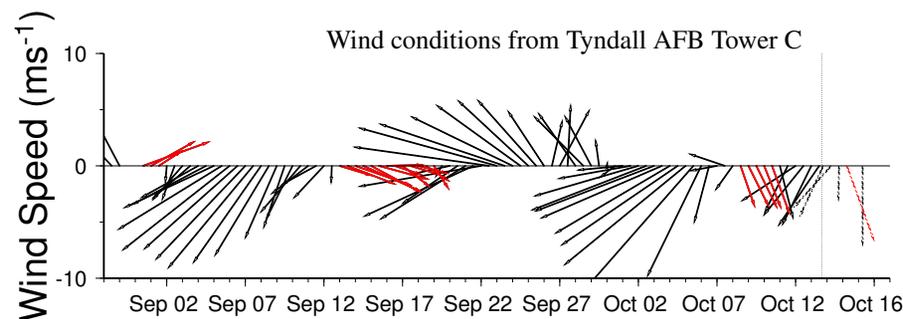
Analysis: Bloom persists in patches along the Florida Panhandle from Franklin to Escambia County. *K. brevis* has also been confirmed as far west as Dauphin Island, AL on October 11 (AL Dept. of Public Health). Chlorophyll concentrations are greater than $20\mu\text{g/L}$ within Mobile Bay around $87^{\circ} 56' \text{N } 30^{\circ} 16' \text{W}$. Recent sampling results (10/11) indicate low to medium concentrations in Bay and Franklin Counties. No *K. brevis* was detected at Boggy Bayou, Rocky Bayou, and Choctaw Beach in Okaloosa; however, high chlorophyll concentrations remain offshore of Okaloosa and Walton Counties at approximately $86^{\circ} 37' \text{N } 30^{\circ} 13' \text{N}$. The bloom is highly patchy, sampling is recommended. High chlorophyll concentrations ($> 20\mu\text{g/L}$) were found offshore of Franklin County at $84^{\circ} 50' \text{N } 29^{\circ} 31' \text{N}$, further sampling is recommended. Northerly and northeasterly winds throughout the week-end will minimize impacts to coastal areas. Slight westerly movement of the bloom is possible through the weekend. ~ Keller, Stolz

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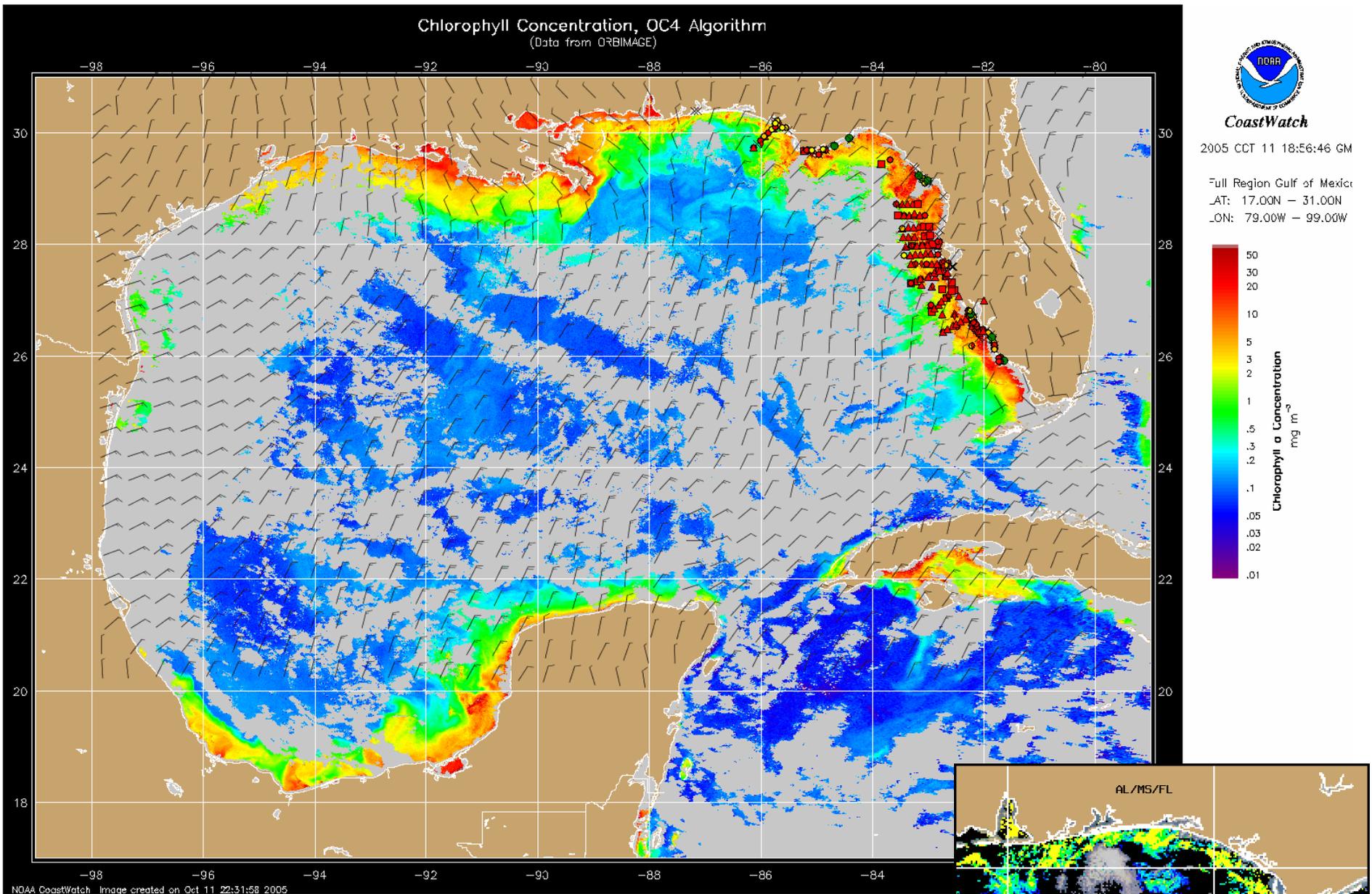


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s).



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.

North to northeasterly winds today through Sunday at around 10 knots (5 m/s).



Chlorophyll concentration from satellite and forecast winds for October 14, 2005 06Z 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)