



Gulf of Mexico Harmful Algal Bloom Bulletin

11 October 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: October 11, 2005

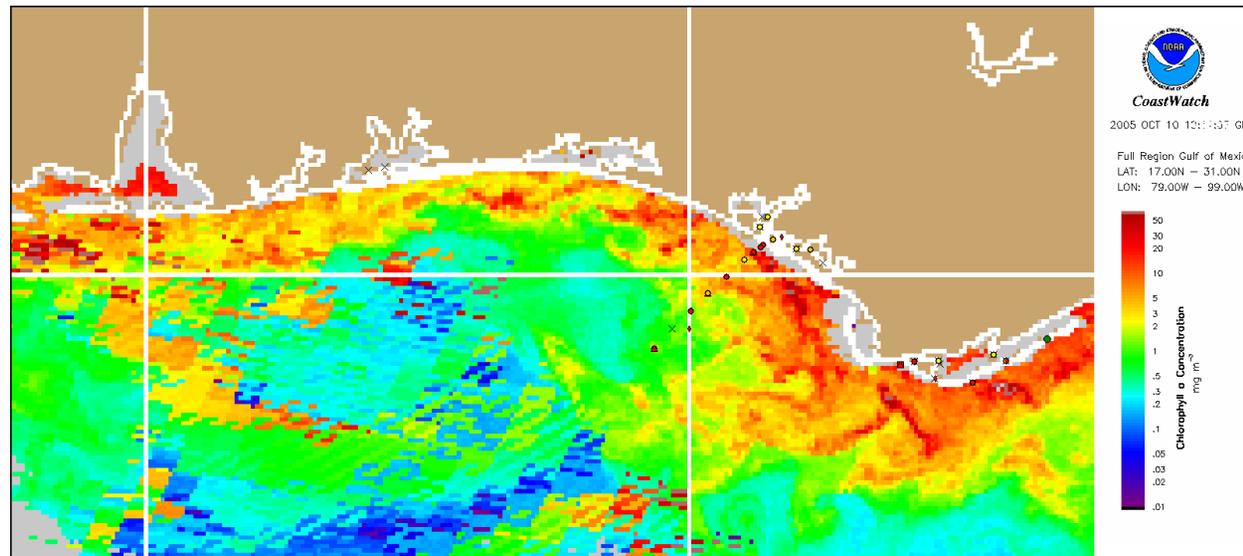
Conditions: Harmful algal blooms have been identified from Pinellas to Collier County, Dixie to Levy County, and in patches from Escambia to Franklin County. Patchy low impacts are expected through Thursday from Pinellas to northern Sarasota County, and southern Lee to Collier County, with very low impacts 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 the Florida Panhandle west of Franklin County, and has been confirmed in low to medium concentrations in Santa Rosa and Escambia County (FWRI, Oct. 6). A patch of very high chlorophyll ($>40\mu\text{g/L}$) is detected via satellite in Franklin County at $29^{\circ}32\text{N } 84^{\circ}50\text{W}$. A patch of high chlorophyll ($15\text{-}20\mu\text{g/L}$) is also evident south of Okaloosa County, at $30^{\circ}11\text{N } 86^{\circ}37\text{W}$. Sampling is recommended at both locations, as well as continued sampling along the coast. Chlorophyll levels remain high throughout the panhandle region due to nonharmful algal presence; thus *K. brevis* extents are less distinguishable. Northeasterly to northerly winds throughout the week will decrease coastal impacts. Some slight westerly movement of the bloom is possible. Dead fish impacts may be greater in Gulf and Franklin Counties.

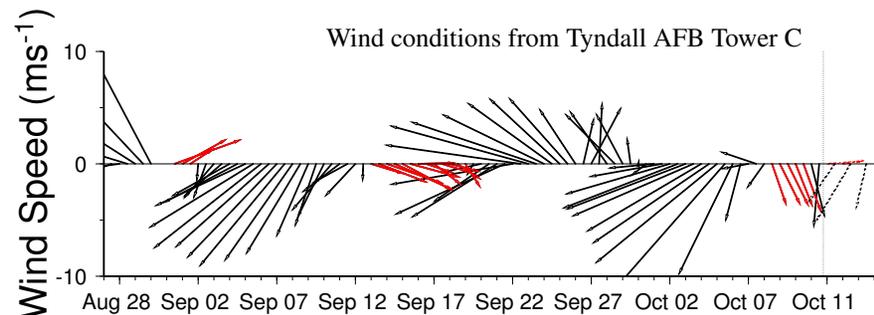
-Stolz and Fisher

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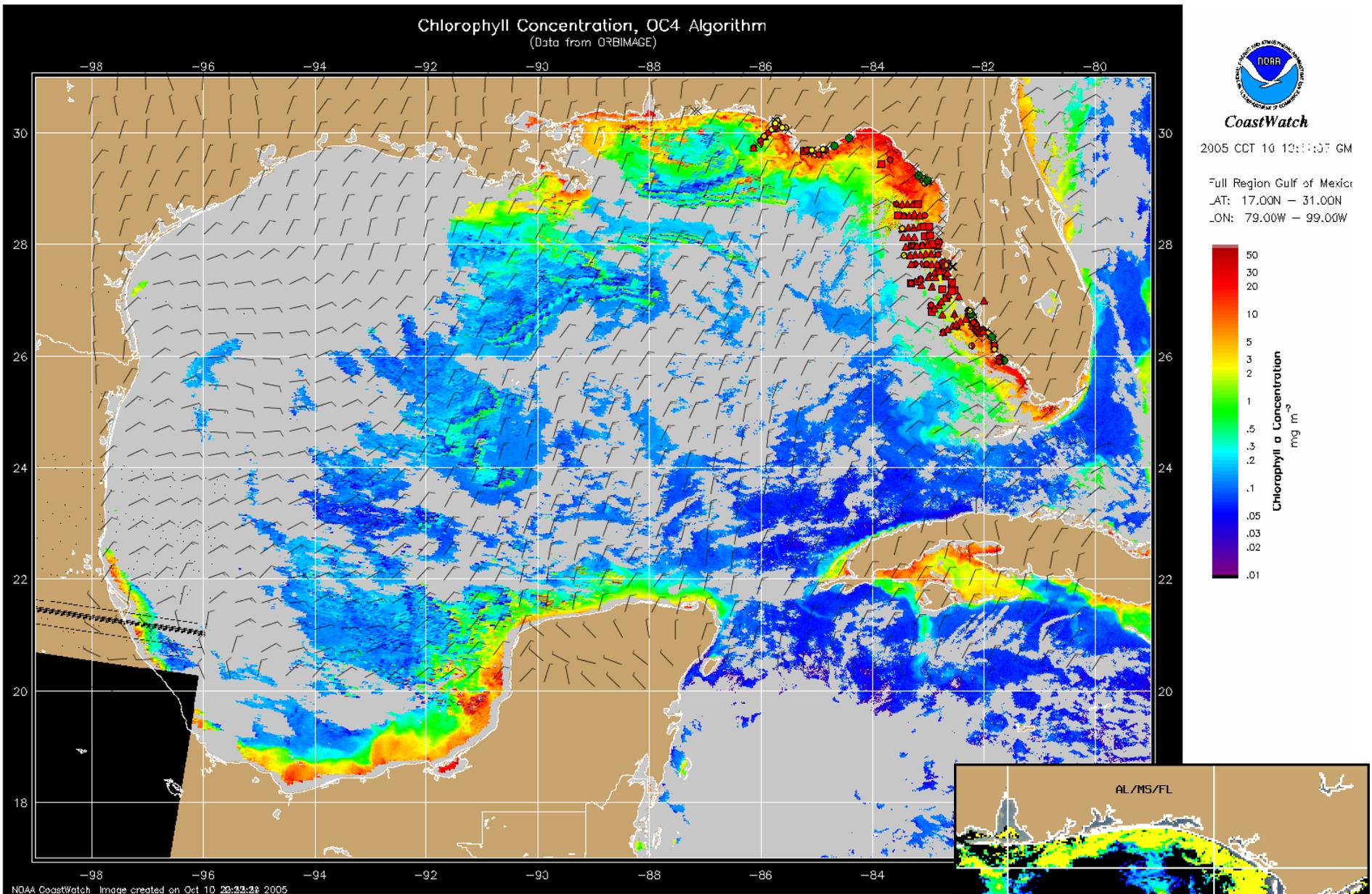


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s).



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.

Northeasterly winds through tonight at 10 knots (5 m/s) becoming northerly Wednesday at 5-10 knots (3-5 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)