



Gulf of Mexico Harmful Algal Bloom Bulletin

6 September 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: September 1, 2005

Conditions: A harmful algal bloom has been identified from northern Pinellas to Lee County. Patchy very low to low impacts are possible today through Thursday from northern Pinellas to Lee Counties. A harmful algal bloom has been identified in Southern Gulf County. Patchy very low to low impacts are possible in Franklin, Taylor, and Dixie Counties today through Thursday. Dead fish have been reported in last few days. Dead fish smell, while unpleasant, does not produce the same respiratory irritation as red tide.

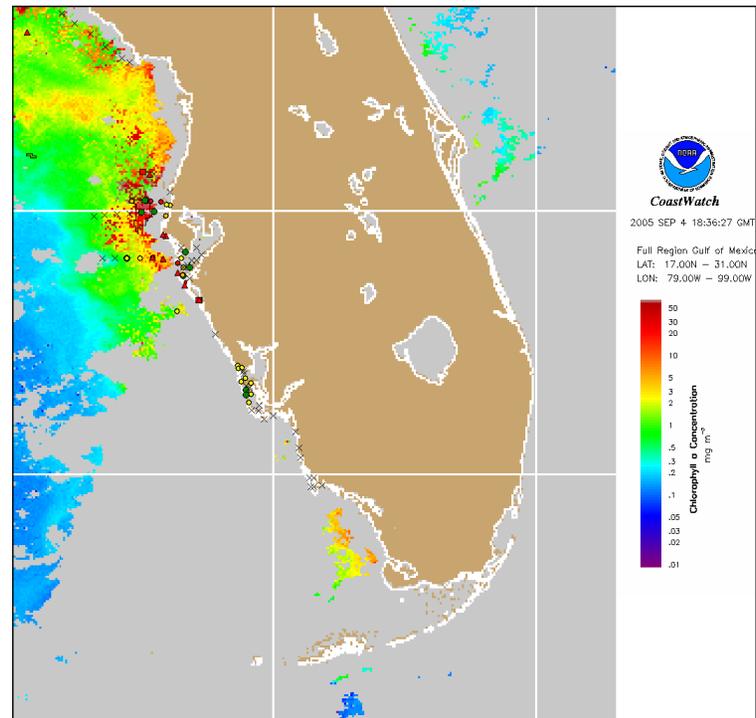
Analysis: Bloom persists from northern Pinellas to Lee County. Imagery obscures southern extent of the bloom. However, samples confirm *K. Brevis* as far south as Fort Myers. High chlorophyll levels ($>20\mu\text{g/L}$) were found as far north as $82^\circ 54' \text{W } 28^\circ 18' \text{N}$ off of Pasco and Hernando County. High chlorophyll levels ($>20\mu\text{g/L}$) remain offshore of Pinellas County at $83^\circ 2' \text{W } 27^\circ 55' \text{N}$. Transport model indicates northward movement of bloom 10-18 km since September 2. Northerly and northeasterly winds today through Thursday will reduce beach impacts. Slight southerly movement of the southernmost extent of the bloom is possible.

A bloom has been identified in Southern Gulf County. Medium concentrations were found alongshore Franklin County on August 31 (FWRI). High concentrations persist offshore of Taylor County. Imagery on September 4 indicates high chlorophyll levels between $10\text{-}20\mu\text{g/L}$ at $83^\circ 57' \text{W } 29^\circ 32' \text{N}$. Reports of discolored water are likely.

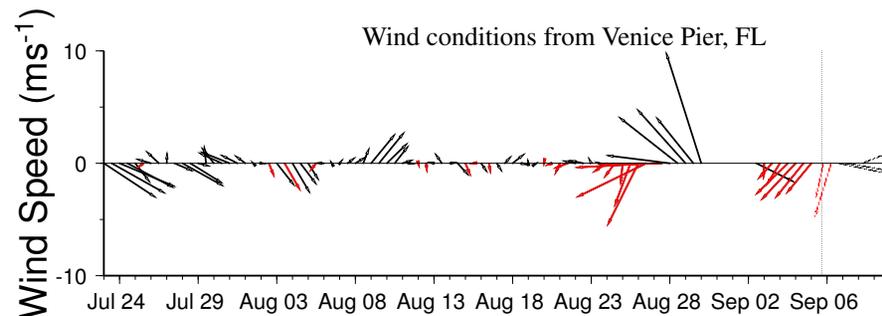
~ Keller, Stolz

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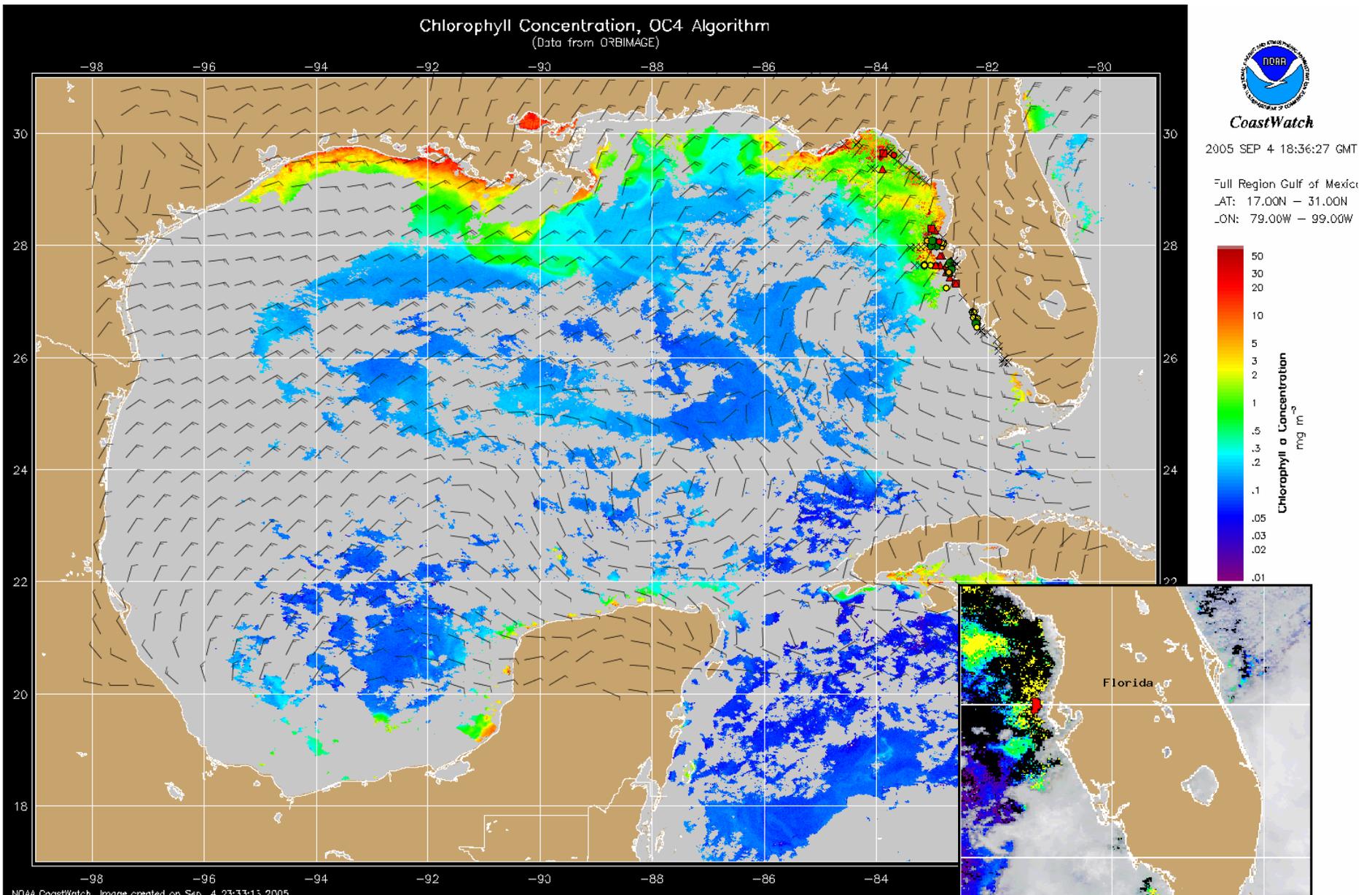
Chlorophyll concentration from satellite with HAB areas shown by red polygon(s). Cell concentration sampling data from August 25, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (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.

SW Florida: Northeast winds today and tonight at 15 knots (8 m/s). North winds Wednesday through Thursday at 10-15 knots (5-8 m/s).

FL Panhandle: Northeast winds today through Wednesday at 15-20 knots (8-10 m/s), lessening on Thursday to 10-15 knots (5-8 m/s).



Chlorophyll concentration from satellite and forecast winds for September 7, 2005 06Z with cell concentration sampling data from August 25, 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)

