



# Gulf of Mexico Harmful Algal Bloom Bulletin

8 August 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: August 4, 2005

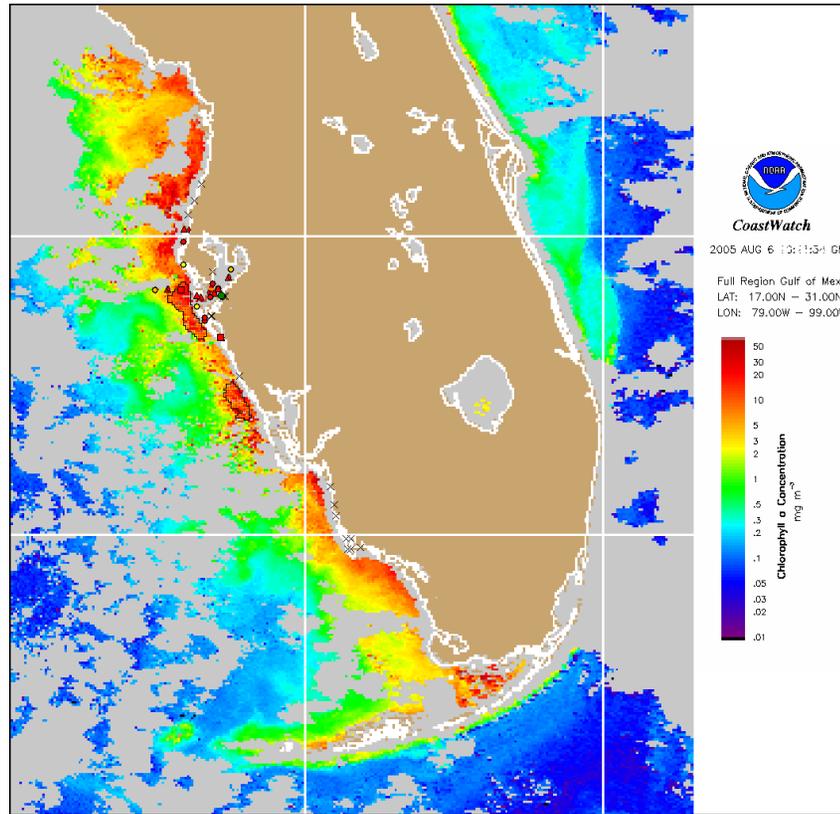
**Conditions:** A harmful algal bloom has been identified from northern Pinellas to northern Lee County. Very low impacts are possible in northern Pinellas; patchy low to moderate impacts are possible from southern Pinellas to northern Sarasota County through Thursday. Patchy low to high impacts are possible in Charlotte and northern Lee County through Thursday. Dead fish have been reported in the past few days from central Pinellas to southern Manatee County. Offshore dead fish have been reported from Pinellas to Sarasota Counties.

**Analysis:** The current bloom persists in Tampa region with southward expansion to northern Lee County. A high chlorophyll band continues to extend along the entire coast. The band extends out to 13 miles offshore of Pinellas County and averages from 7-20  $\mu\text{g/L}$ , with consistently high levels offshore. Chlorophyll band extends out to 11 miles offshore from Manatee to Sarasota counties, with levels averaging from 3-10  $\mu\text{g/L}$ . Higher chlorophyll levels are found (8-40  $\mu\text{g/L}$ ) up to 12 miles offshore of Charlotte and Lee counties and as far south as Captiva Island, although cloudiness obscures nearshore areas and southward extent. Sampling confirms persistence of bloom in Tampa region, followed by extension and possible separation of bloom located in southern Sarasota, Charlotte and northern Lee counties (low to high counts; FWRI). Since previous bulletin, wind transport model indicates oscillating northward and southward transport, with slight overall southward transport. Consistent southwesterly winds today through Wednesday may increase likelihood of onshore transport and reports of respiratory distress and dead fish.

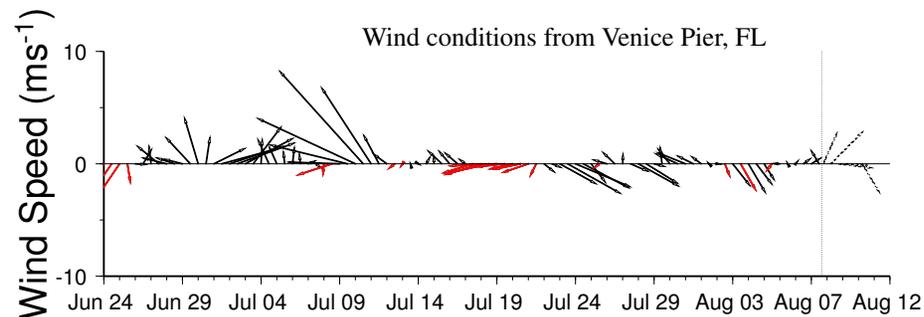
Fenstermacher & Fisher

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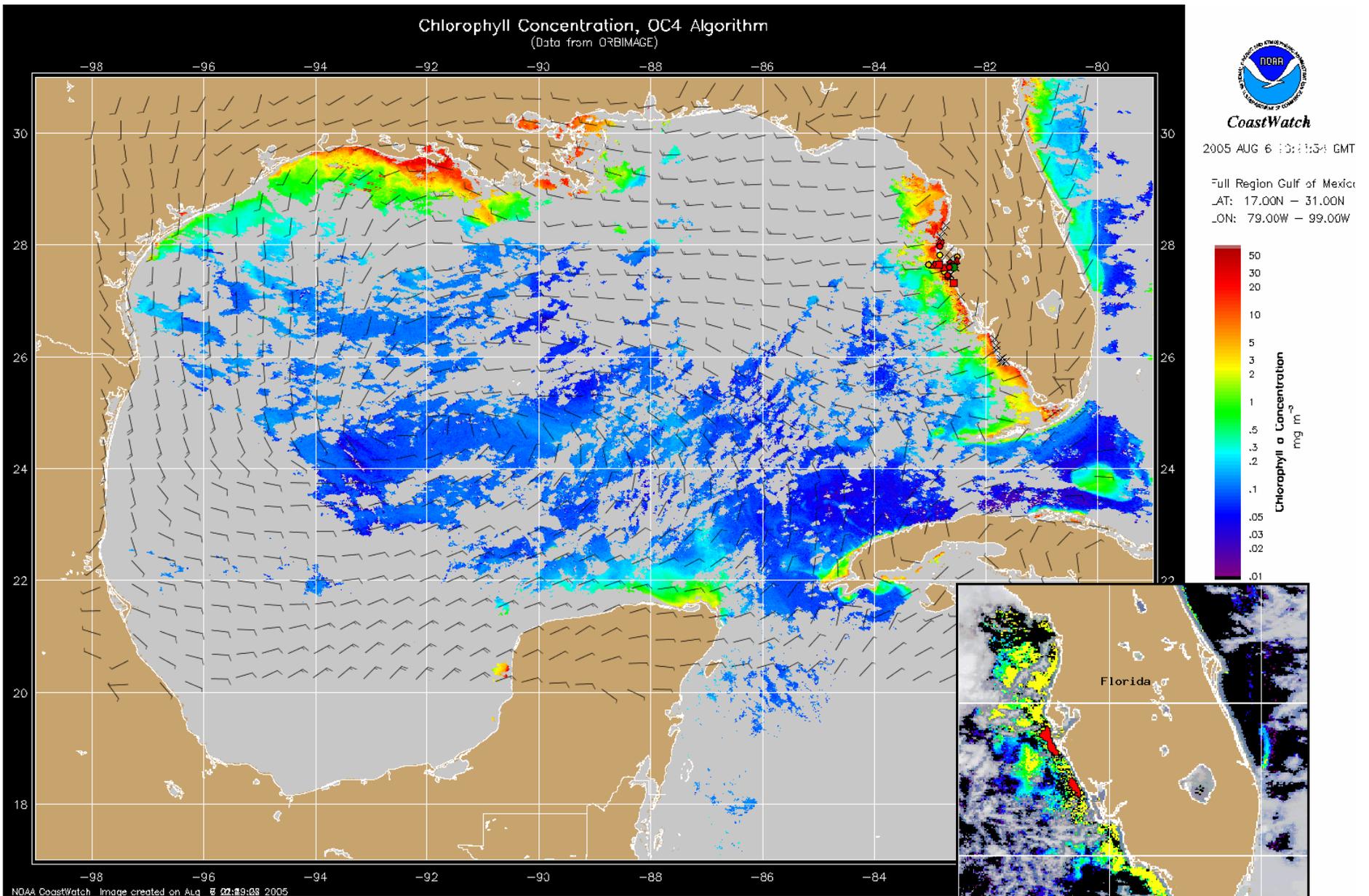


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s). Cell concentration sampling data from July 22, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (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: Southwesterlies today thru Wednesday (5-10 knots; 3-5 m/s). Southeasterlies Thursday morning followed by onshore winds in the afternoon (5-10 knots; 3-5 m/s).



Chlorophyll concentration from satellite and forecast winds for August 9, 2005 06Z with cell concentration sampling data from July 22, 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)

