



# Gulf of Mexico Harmful Algal Bloom Bulletin

16 June 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: June 13, 2005

**Conditions:** A harmful algal bloom has been identified in Manatee and Sarasota counties. Patchy low to moderate impacts possible in ocean-side and bayside vicinities through Sunday.

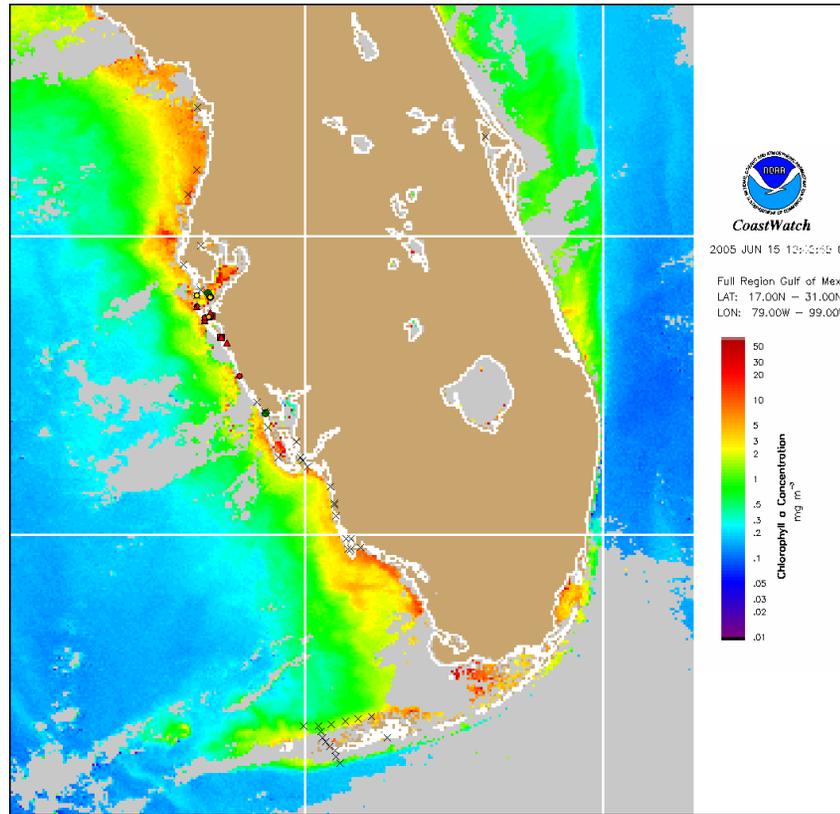
**Analysis:** Resuspension event from Tropical Storm Arlene limits analysis of bloom locations. Previously identified patchy blooms within Manatee and Sarasota counties may have expanded northward to Pinellas County. There have been reports of dead fish and respiratory distress at St. Petersburg beach but not further north at this time. Offshore of St. Petersburg, there is a high chlorophyll patch of 9.1  $\mu\text{g/l}$  located at 27°35'N, 82°47'W. A chlorophyll band of 3-9  $\mu\text{g/l}$  extends approximately 7 miles offshore of Tampa Bay (western extent 27°31'N, 82°50'W). The southern extent is obscured by clouds. The northern extent has merged with the chlorophyll patch around Indian Rocks, which has been in place for two weeks with no reports of impacts. Chlorophyll levels have decreased slightly offshore ( $<3 \mu\text{g/l}$ ) around Venice with a high of 5.7  $\mu\text{g/l}$  at 27°31'N, 82°50'W. Reports of discolored water are possible.

Onshore winds through the weekend will increase impacts in coastal areas. Coastal westerlies may minimize northward expansion and cause southward transport.

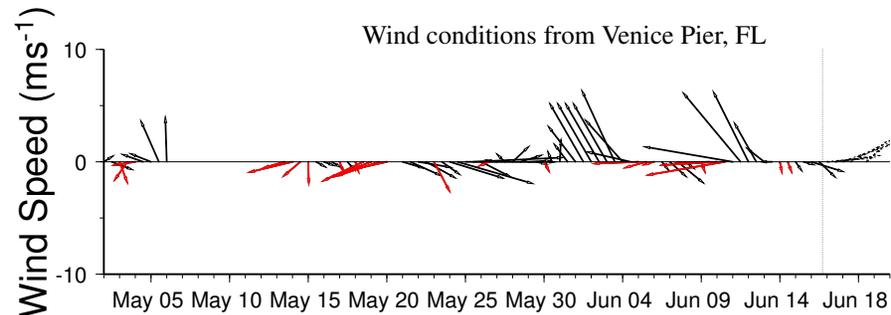
Fenstermacher & Keller

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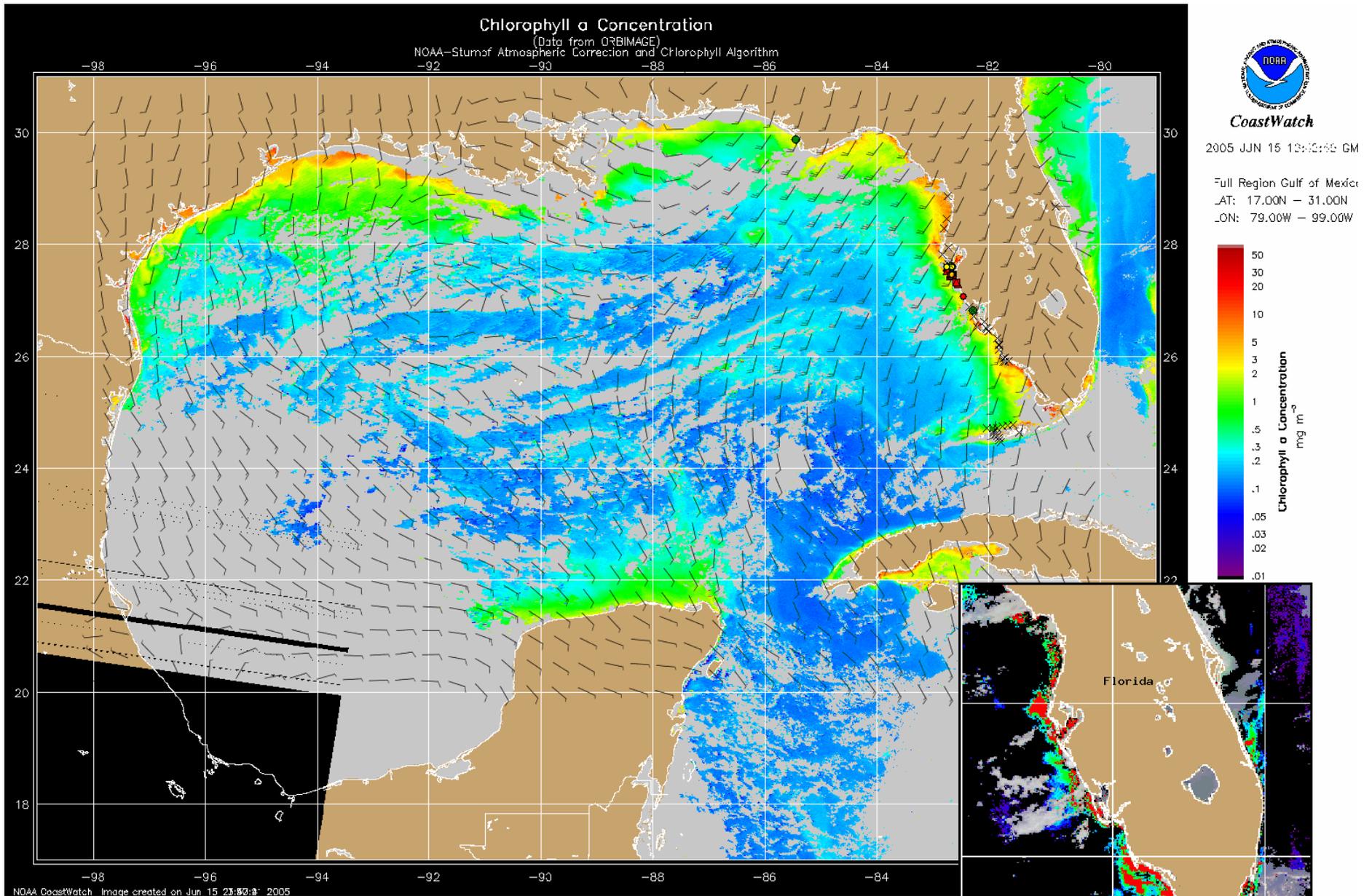


Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from June 3, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

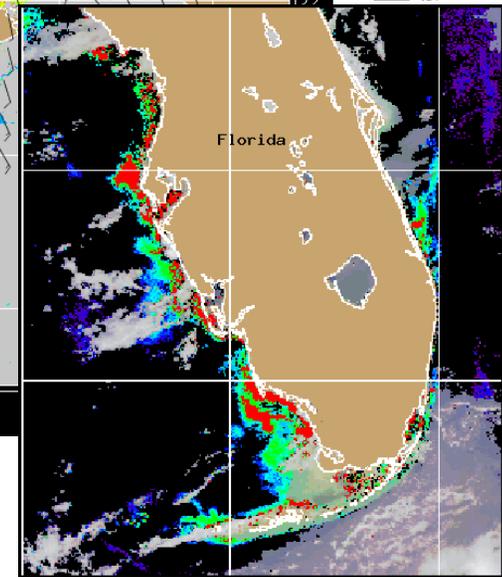


Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Westerlies through Saturday at 5-10 knots (3-5 m/s), becoming southwest on Saturday night at 5-10 knots (3-5 m/s) and through Sunday at 5 knots (3 m/s).



Chlorophyll concentration from satellite and forecast winds for June 17, 2005 12Z with cell concentration sampling data from June 3, 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 and image for interpretation)

Wind conditions from Egmont Key, FL

