



Gulf of Mexico Harmful Algal Bloom Bulletin

28 July 2005

National Ocean Service

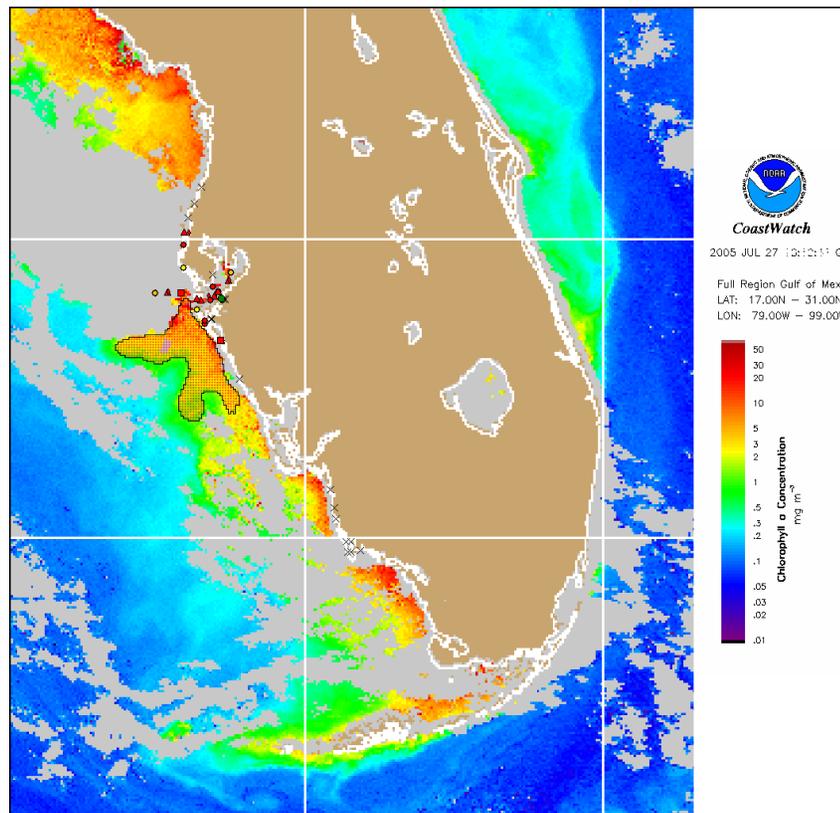
National Environmental Satellite, Data, and Information Service

Last bulletin: July 25, 2005

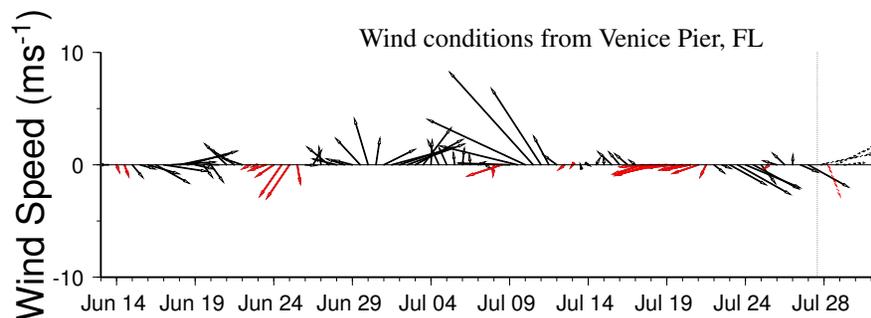
Conditions: A harmful algal bloom has been identified from northern Pinellas to northern Sarasota County. In Pinellas County, patchy moderate impacts are possible today, with low impacts possible tomorrow, and very low impacts possible Saturday through Monday. In Manatee County, low impacts are possible today, with very low impacts possible tomorrow through Monday. In northern Sarasota County, patchy high impacts are possible today, with patchy moderate impacts possible tomorrow, and low impacts possible Saturday through Monday.

Analysis: Imagery from July 27 indicates a chlorophyll concentration of $>20 \mu\text{g/L}$ 8 km (5 miles) west of Anna Maria at $27^{\circ}32'N$, $82^{\circ}49'W$. The northern extent of the bloom may have spread northward, off shore of Citrus County to approximately $28^{\circ}45'N$. Imagery from July 25 indicates a chlorophyll concentration of $>10 \mu\text{g/L}$ 22 km (14 miles) northwest of Hernando Beach at $28^{\circ}36'N$, $82^{\circ}50'W$. Several samples were taken yesterday in Hernando County: most had no *Karenia brevis*, none had levels higher than very low. Bloom may be mixed along the northern edge. Continued sampling is recommended, particularly off-shore. Slight northward expansion of the bloom is possible through Monday. Onshore transport of dead fish is possible through tomorrow.

Bronder, Stolz



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).

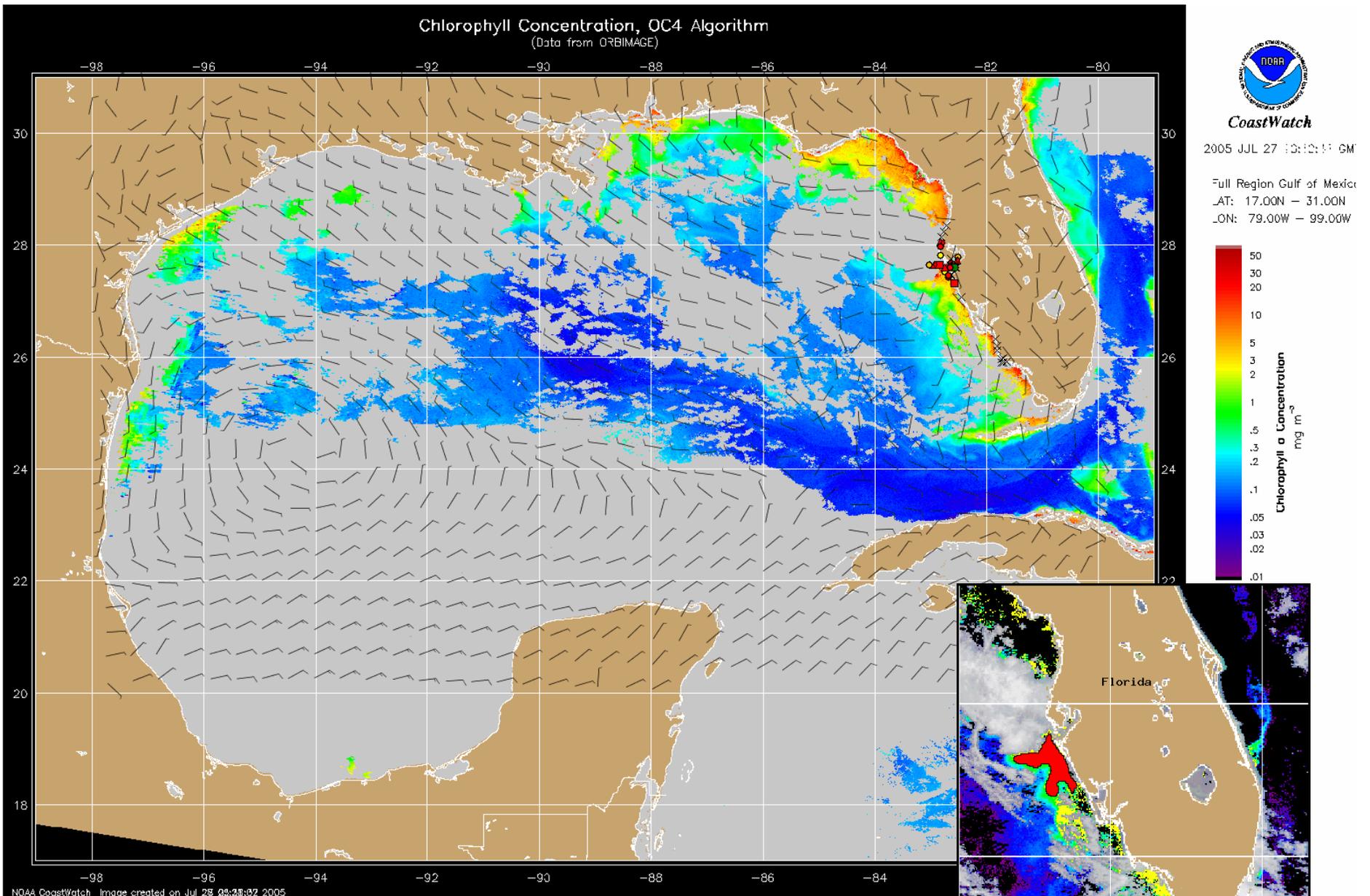


Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right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

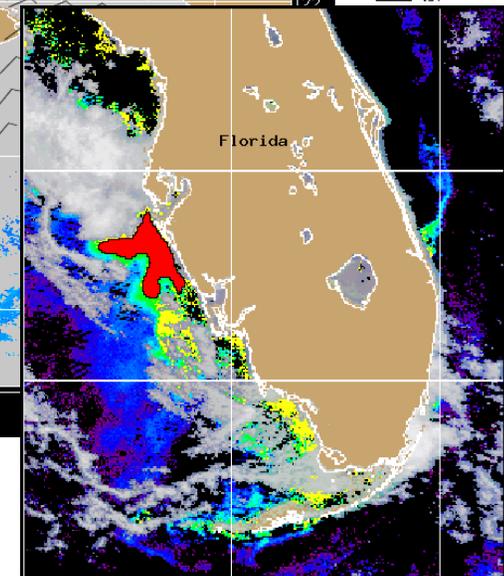
Winds will be west (10 kts, 5 m/s) today, southwest (5 kts, 3 m/s) tomorrow, south (5 kts, 3 m/s) Saturday, east (10 kts, 5 m/s) Sunday, and north (5 kts, 3 m/s) Monday.

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4. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.



Chlorophyll concentration from satellite and forecast winds for July 29, 2005 12Z 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)

Wind conditions from Egmont Key, FL

