



# Gulf of Mexico Harmful Algal Bloom Bulletin

31 May 2005

National Ocean Service

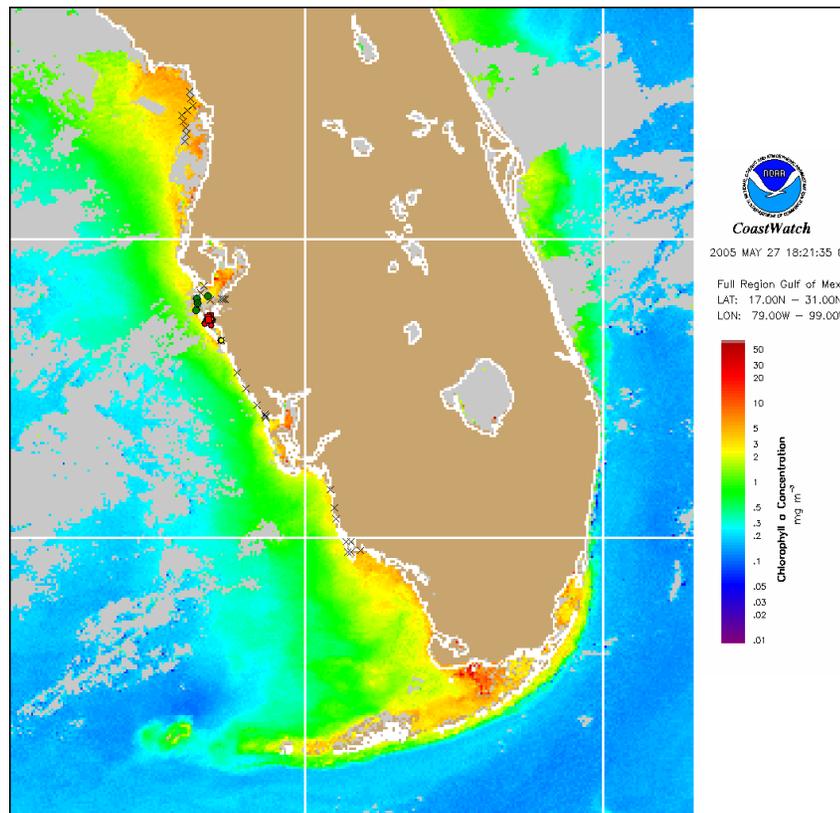
National Environmental Satellite, Data, and Information Service

Last bulletin: May 26, 2005

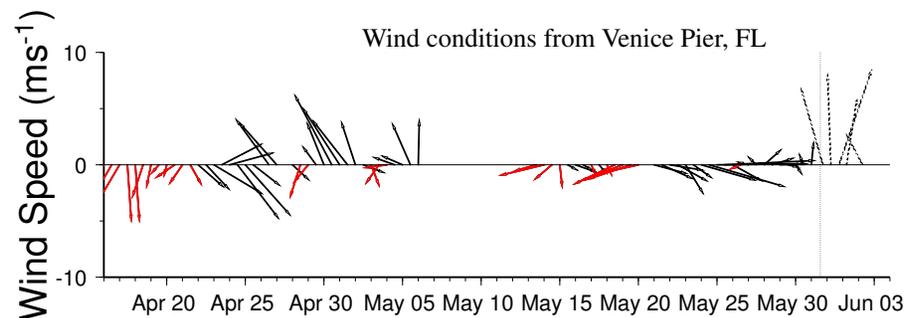
**Conditions:** A harmful algal bloom has been identified in southern Pinellas, Manatee, and northern to mid Sarasota Counties. Patchy high impacts are possible at beaches and bayside vicinities today and tomorrow, with possible patchy moderate impacts on Thursday.

**Analysis:** The bloom persists in patches near the coast and in the bays. Imagery from May 27 indicates chlorophyll concentration of  $>5 \mu\text{g/L}$  just west of Siesta Key at  $27^{\circ}17'N$ ,  $82^{\circ}38'N$ . Samples from last week had high levels of *Karenia brevis* in Palma Sola Bay and New Pass. Several other locations had medium levels. Intensification and movement of the bloom is unlikely through Thursday.

Bronder, Stolz



Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from May 15, 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).

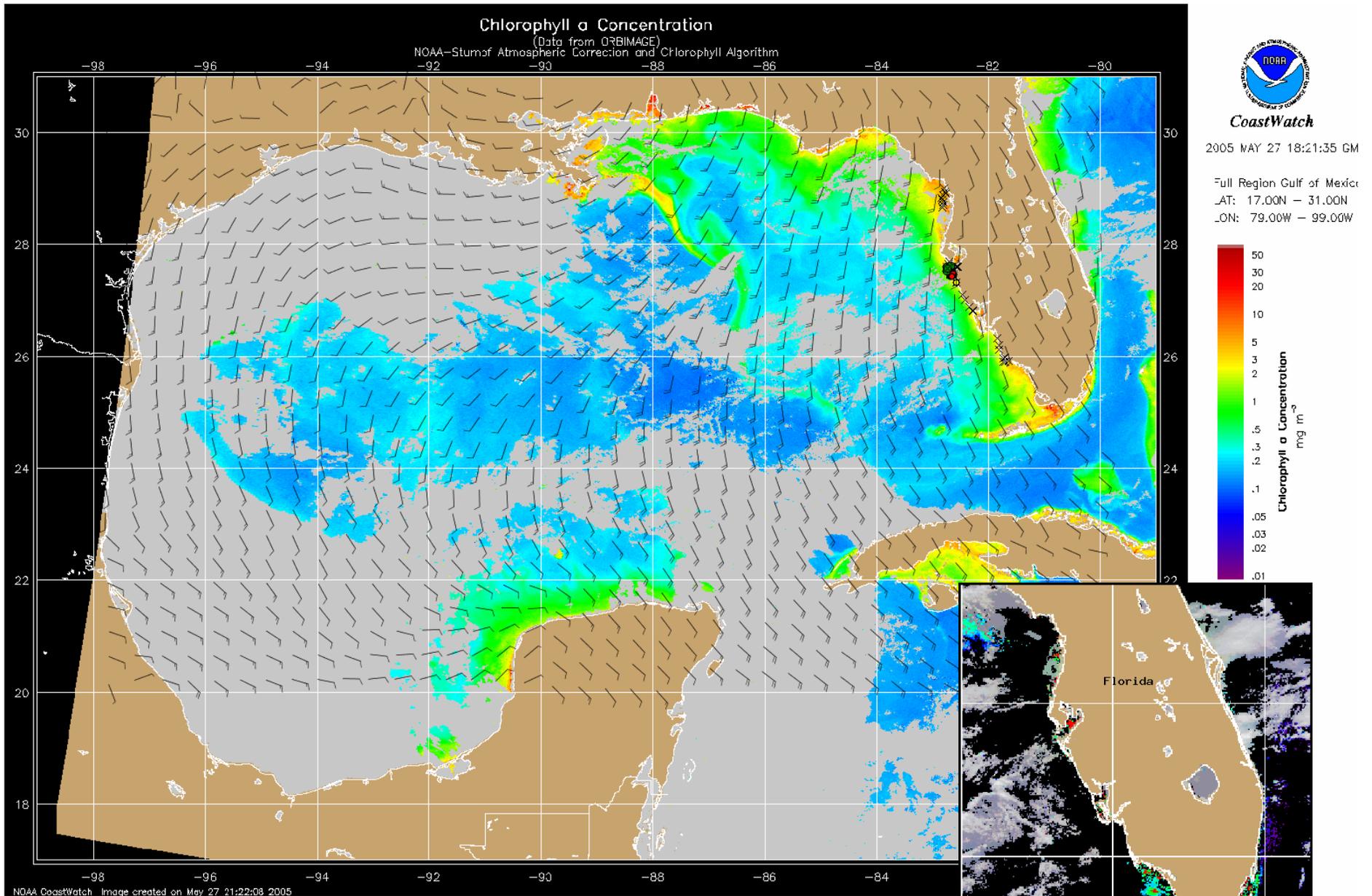


Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right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

SW Florida: Winds will be southwest (15 kts, 8 m/s) today, southwest (20 kts, 10 m/s) tomorrow, and south (10 kts, 5 m/s) on Thursday.

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1. These data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Distribution for military, or commercial purposes is NOT permitted.
3. There are restrictions on Internet/Web/public posting of these data.
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Chlorophyll concentration from satellite and forecast winds for June 1, 2005 06Z with cell concentration sampling data from May 15, 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)

