



## Experimental Gulf of Mexico Harmful Algal Bloom Bulletin

19 August 2003

National Ocean Service/NCCOS and CSC

NESDIS/CoastWatch and NDBC

Last bulletin: August 11, 2003

### Analysis

SW Florida: Imagery indicates that the *K. brevis* bloom from Tampa Bay to Charlotte Harbor has moved approximately 10 km offshore, with chlorophyll levels above 3  $\mu\text{g/L}$  in some areas. Medium cell counts were still reported in the Sarasota region on August 14. South-easterly winds are forecasted through Saturday and should keep the bloom offshore. Effects at the coast should be minimal.

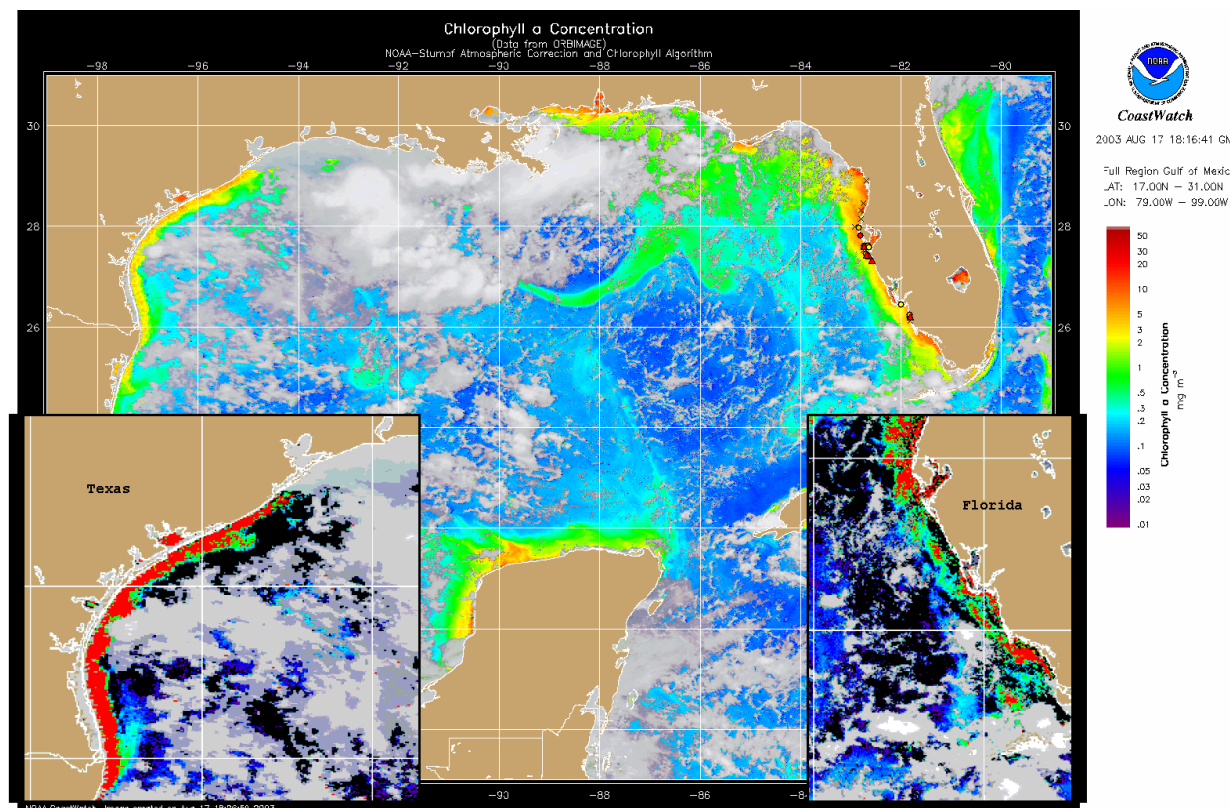
In addition, a flagged area is observed along the coast, from the mouth of Charlotte Harbor south to Naples. Chlorophyll levels above 6  $\mu\text{g/L}$  are observed. This area should be monitored, as medium counts were observed north of Naples on August 14.

Texas: A large flagged area indicating elevated chlorophyll is observed along most of the Texas coastline (from West Bay into Mexico). This is a result of resuspended chlorophyll due to the passage of Tropical Storm Erika, which made landfall 35 miles south of Brownsville on August 16. No reports of *K. brevis* or its effects have been reported at this time.

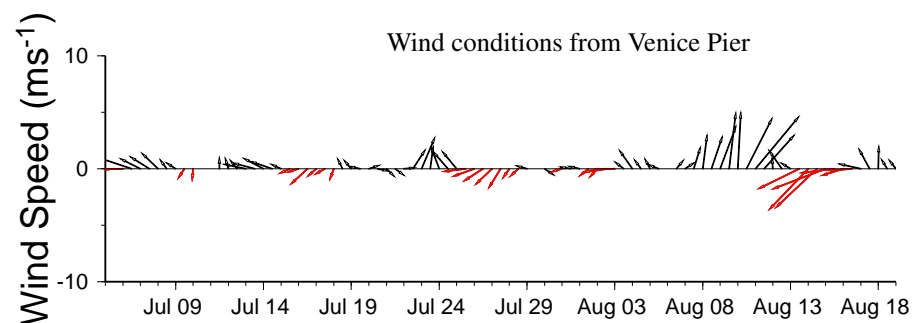
-Tomlinson

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Chlorophyll concentration (above) and possible HAB areas shown in red (inset). Cell concentration sampling data from August 14, 2003 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 NOAA buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast.

SW Florida: Southerly winds are expected to turn southeasterly this evening and remain through Saturday. Texas: Strong northeasterly winds intensified from August 14-16, as a result of Tropical Storm Erika, and was followed by southeasterly winds.

Wind conditions from Port Aransas, TX

