Conditions: A harmful algal bloom has been identified from northern Pinellas to northern Lee County. Today through Saturday the following impacts are possible, especially in the afternoon: low in northern Pinellas, Manatee, and northern Lee Counties; very low in southern Pinellas, southern Sarasota, and Charlotte Counties; patchy moderate in northern Sarasota County. On Sunday the following impacts are possible: patchy moderate in northern Pinellas, Manatee, and northern Lee Counties; low in southern Pinellas, southern Sarasota, and Charlotte Counties; patchy high in northern Sarasota County. Due to the low oxygen water offshore, more dead fish may be found on the beach than normal. Dead fish smell, while unpleasant, does not produce the same respiratory irritation as red tide.

Analysis: The bloom persists offshore from Pasco to Lee Counties. The northern and southern extents of the bloom are hard to pin point due to clouds and non-harmful blooms bordering the HAB. Imagery from 8/16 indicates a chlorophyll concentration of >20 \(\mu g/L\) 11 km (7 miles) west of Palm Harbor at 28°4’N 82°52’W. Imagery from 8/17 indicates a chlorophyll concentration of 20 \(\mu g/L\) 19 km (12 miles) west of Bonita Springs at 26°22’N 81°59’W. Samples from 8/15 in Charlotte County contained no \textit{Karenia brevis}, but did contain several other species. Reports of discolored water are possible. A wind transport model indicates movement of up to 10 km south since 8/15. Weak northerly expansion of the bloom is possible through Monday.

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

Winds today through Saturday will be southeast (5 kts, 3 m/s) becoming onshore (10 kts, 5 m/s) in the afternoon. On Sunday winds will be southwest (10 kts, 5 m/s).
Chlorophyll concentration from satellite and forecast winds for August 19, 2005 12Z with cell concentration sampling data from August 5, 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)