Conditions: A harmful algal bloom has been identified offshore of the 10,000 Islands region south of Collier County, extending to Cape Sable in southern Monroe County. Fish and dolphin mortalities have been reported in offshore waters west of Shark River. Moderate impacts are possible at the coast on Friday and Saturday in the 10,000 Islands region. A very low concentration of K. brevis has also been identified just southwest of Marco Island. Very low impacts at the beach are possible on Friday and Saturday.

Analysis: Clouds have obscured satellite imagery over much of the Florida coastline and the identified HAB bloom offshore of the 10,000 Islands region recently. The bloom appears to have transported slightly south to 25°10’N. An area of elevated chlorophyll (above 9 µg/L) is visible at 81°38’W, 25°16’N. Further information regarding the current state and exact extent of this bloom is unavailable. Strong onshore winds Friday and Saturday may transport dead fish to the coast. Strong northerly winds will likely transport this bloom further south over the weekend.

Samples collected Dec. 6 by FWRI identified a very low concentration of K. brevis southwest of Marco Island (25°54.5’N, 81°42.4’W). This concentration is not identifiable by satellite imagery; however the area will continue to be monitored. Very low impacts at the beach are possible Friday and Saturday in this region.

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.
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.
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4. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.

Easterlies today will turn southerly tonight into tomorrow and begin clocking around to the north by Monday. Stronger southwesterlies to northwesterlies (15-20 knots, 8-10 m/s) expected Friday and Saturday, then turning northerly Sunday into Monday.
Chlorophyll concentration from satellite and forecast winds for December 10, 2004 12Z with cell concentration sampling data from November 30, 2004 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 Venice Pier, FL