Conditions Report

Very low to high concentrations of Karenia brevis (commonly known as Florida Red Tide) are present along- and offshore from southern Pinellas to Collier counties. Patchy high respiratory impacts are possible today through Monday in the southern Sarasota Bay region of Sarasota County, the Gasparilla Sound region of Charlotte County, and the Pine Island Sound region of Lee County. Patchy moderate respiratory impacts are possible today, Friday and Monday in the bay region of southern Pinellas and Manatee counties and the San Carlos Bay region of central Lee County, with patchy high impacts on Saturday and Sunday. Patchy low respiratory impacts are possible today through Monday in the Marcos Bay region of Collier County. Patchy very low respiratory impacts are expected alongshore southern Pinellas, Manatee, Sarasota, Charlotte, and southern Lee counties today through Monday. No impacts are expected elsewhere alongshore southwest Florida today through Monday, November 19.

Analysis

A harmful algal bloom of Karenia brevis is present along- and offshore southwest Florida from southern Pinellas to Lee counties, with concentrations ranging from very low to high. Background to low concentrations of K. brevis were also reported in the Marco Island regions of southern Collier County (FWRI, CCPCPD; 11/8, 11/13). Recent samples collected range from very low to medium K. brevis concentrations in the lower Tampa Bay (Pinellas & Manatee counties), Sarasota Bay (Sarasota County), Gasparilla Pass (Charlotte County) and Pine Island Sound (Lee County) systems (FWRI, MML, SCHD; 11/9-14). A sample collected 64 miles offshore of Charlotte and Lee counties indicated K. brevis in high concentrations (FWRI; 11/13).

Recent MODIS imagery is obscured by clouds alongshore from southern Pinellas to northern Charlotte counties, and Collier County limiting analysis. A large patch of elevated to high chlorophyll (5 to >10 µg/L) remains alongshore and up to 13 miles offshore of Charlotte and Lee Counties (western extent: 26°31’53.84”N, 81°26’16.69”W). Continued offshore sampling is recommended.

Forecasted offshore winds today through Monday may decrease the potential for respiratory impacts along the coast from southern Pinellas to Lee counties, except in the bay regions. Continuous upwelling favorable winds are forecasted through Monday; intensification is possible in southern Lee and Collier counties.

“Fenstermacher, Kavanaugh

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit: [http://tidesandcurrents.noaa.gov/lab/bulletins.html](http://tidesandcurrents.noaa.gov/lab/bulletins.html)
Wind conditions from Venice Pier, FL

Wind conditions from Naples, FL

Wind Analysis
SWFL: North winds to northeast winds today through Monday (10-15 kn; 5-8 m/s), with increasing winds on Saturday and Sunday (15-20 kn; 8-10 m/s).
Satellite chlorophyll image and forecast winds for November 16, 2012 12Z with cell concentration sampling data from November 5 to 14 shown as red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Florida FWC Fish and Wildlife Research Institute. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:
http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf

Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).