Gulf of Mexico Harmful Algal Bloom Bulletin

15 November 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: November 13, 2007

Conditions Report

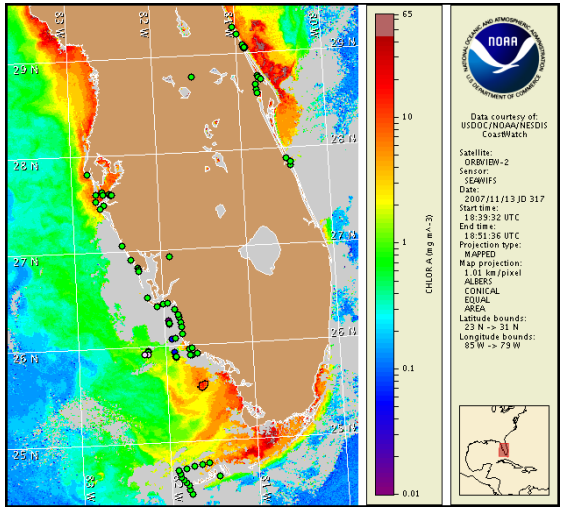
SW Florida: A harmful algal bloom is present from southern Lee to central Collier County. Patchy very low impacts are possible from southern Lee County to central Collier County today. No other coastal impacts are expected through Sunday, November 18.

NE Florida: A harmful algal bloom has been identified from St. Johns County to central Brevard County. Today through Friday, patchy very low impacts are possible in Flagler, Volusia, and Brevard Counties, with patchy low impacts possible in Volusia County on Friday. Patchy low impacts are possible Saturday and Sunday in Flagler, Volusia, and Brevard Counties. No impacts are expected elsewhere in northeast Florida through Sunday, November 18.

Analysis

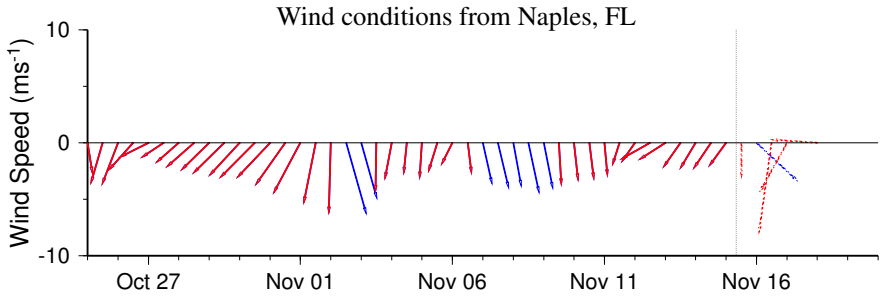
SW Florida: The harmful algal bloom from southern Lee to central Collier Counties has decreased to not present and background concentrations within the past week (FWRI, 10/8-13). Very low concentrations of *K. brevis* have been confirmed 7-25 miles offshore Wiggins Pass, Naples, and Big Marco Pass in Collier County (FWRI, 11/9). Recent satellite imagery is cloudy, limiting present bloom analysis nearshore. Satellite imagery indicates a region of high chlorophyll (>10μg/L) offshore northern Monroe County at 25°33'49"N 81°33'42"W (11/14). Conditions throughout the weekend are favorable for upwelling and intensification.

NE Florida: A harmful algal bloom is present from St. Johns to central Brevard Counties. Imagery suggests the bloom has intensified offshore Volusia and Brevard Counties and near the outer coast of northern Brevard County (11/11-14). Patchy high chlorophyll (>10μg/L) continues to be visible in recent imagery nearshore and offshore Volusia and northern Brevard Counties. The following regions of high chlorophyll are visible: offshore Volusia County at 29°17'57"N 80°46'1"W and 29°3'29"N 80°42'25"W; coastal to offshore Volusia County from 28°50'58"N 80°43'27"W to 28°56'19"N 80°41'14"W; coastal Brevard County at 28°45'49"N 80°39'27"W and 28°33'17"N 80°30'23"W; and coastal to offshore Brevard County from 28°40'41"N 80°35'28"W to 28°50'3"N 80°26'9"W. Sampling is highly recommended. No *K. brevis* was identified in St Johns County or inside lagoon regions of Brevard County this week. Winds are expected to shift today through Sunday, minimizing transport through Monday. Potential impacts are greatest Friday in southern Volusia County and Saturday and Sunday throughout the bloom region. Coastal intensification is possible in northern Brevard County through the weekend. ~Fisher, Urizar, Tomlinson



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). 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). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide:

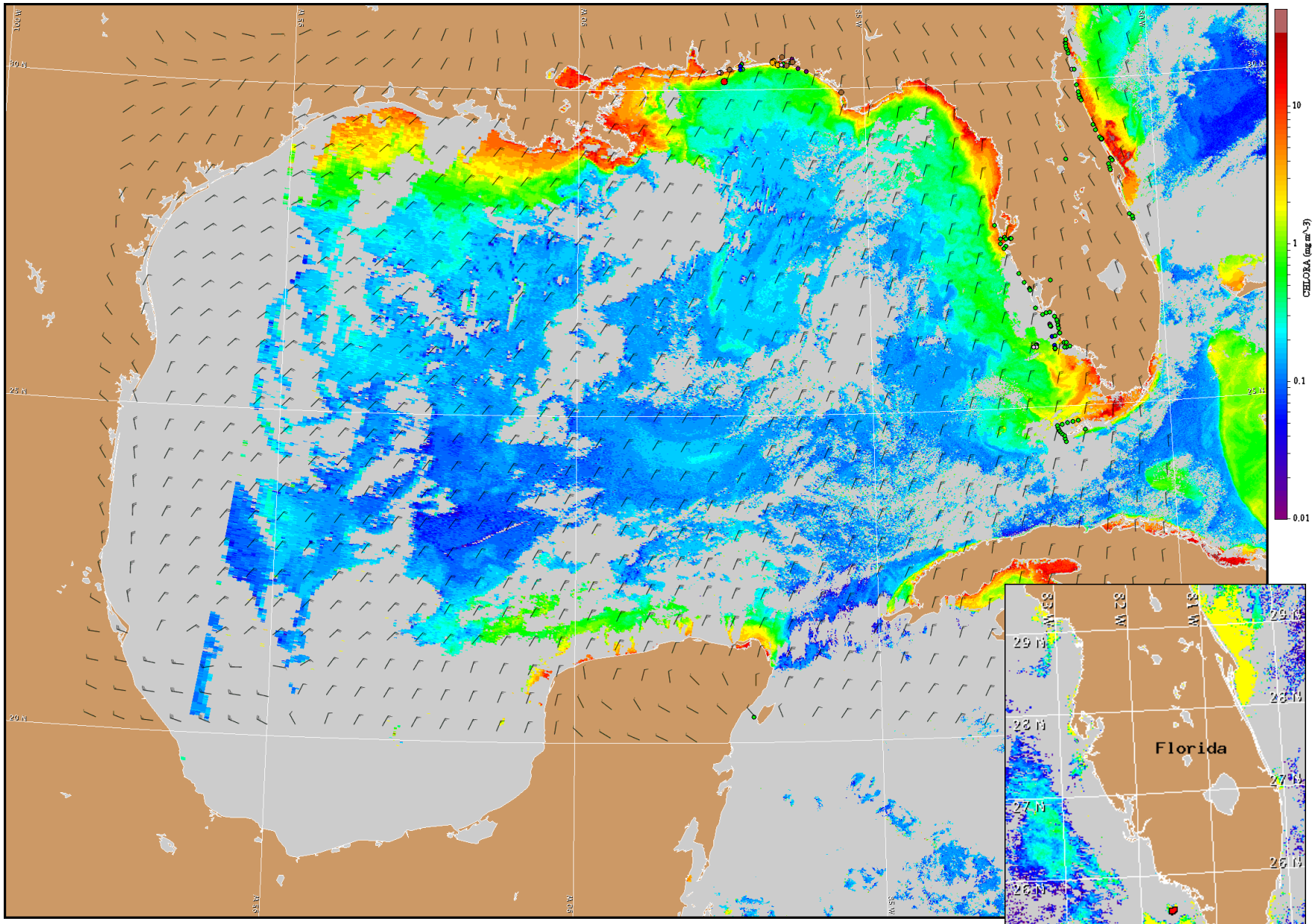
http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf



Wind speed and direction are averaged over 12 hours from buoy measurements. 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: Northwesterly winds (15kts, 8m/s) today strengthening to 20-25kts (10-13m/s) and shifting northerly tonight. Northeast winds Friday (15-20kts, 8-10m/s). East winds Saturday and Sunday (15kts). Northeast winds expected Monday.

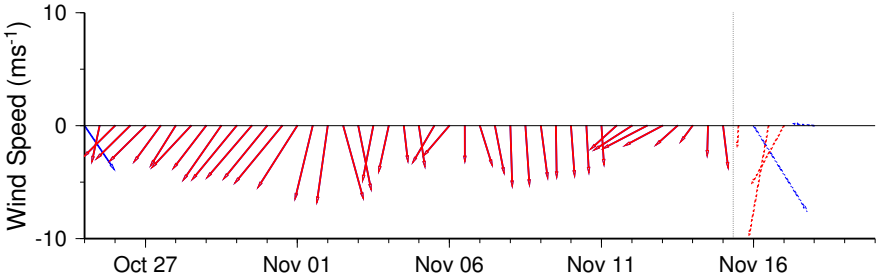
NE Florida: Northwesterly winds (15-20kts, 8-10m/s) today will shift to northerlies Friday and weaken to 5-10kts (3-5m/s). Northeast to southeast winds (5-10kts) Saturday. Northeast winds Sunday (5-10kts). East winds Monday (15-20kts).



Satellite chlorophyll image and forecast winds for November 16, 2007 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). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

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

Wind conditions from Venice Pier, FL



Wind conditions from St Augustine, FL