



Gulf of Mexico Harmful Algal Bloom Bulletin

29 November 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: November 26, 2007

Conditions Report

SW Florida: There is currently no harmful algal bloom along the southwest Florida coast. No impacts are expected today through Sunday, December 2.

NE Florida: A harmful algal bloom has been identified from southern Flagler to central Brevard County. Patchy very low impacts are possible Friday and Saturday in southern Flagler County, with no impacts expected today or Sunday. Patchy low impacts are possible in northern Volusia County today through Saturday, with patchy very low impacts possible Sunday. Patchy moderate impacts are possible in central Volusia County today, with patchy high impacts possible Friday and Saturday and low impacts possible on Sunday. Patchy moderate impacts are possible in central Brevard and southern Volusia Counties today through Sunday. No other impacts are expected elsewhere along northeast Florida through Sunday, December 2.

Analysis

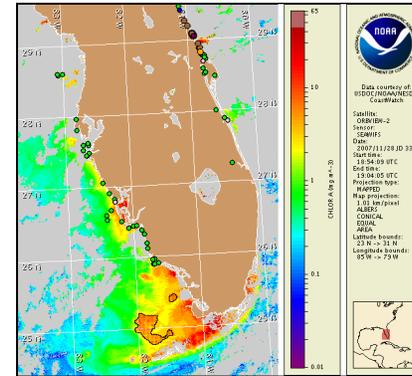
SW Florida: No *Karenia brevis* has been identified onshore southwest Florida this week, with the exception of background concentrations in southern Charlotte County on 11/27 (FWRI). Two small regions of elevated chlorophyll are visible south and southwest of Sanibel Island, centered at 25°47'52"N 81°41'57"W (4µg/L) and 25°44'26"N 81°50'37"W (7µg/L), respectively. Additional regions of elevated to high chlorophyll are visible onshore northern Monroe County, near 25°44'53"N 81°25'11"W (>10µg/L) and offshore Monroe County near 25°26'56"N 81°26'51"W (4µg/L; tracked from previous harmful bloom region). A region of high chlorophyll (>10µg/L) is also visible 35-45miles north of Key West with a maximum chlorophyll level of 7µg/L (25°6'5"N 81°59'59"W). Sampling is recommended at all sited locations. Conditions through Wednesday may promote westward transport of these offshore features. These features will continue to be monitored via satellite imagery.

NE Florida: A harmful algal bloom persists from southern Flagler to central Brevard Counties. *K. brevis* was identified along the coast this week in very low to low concentrations from southern Flagler to central Volusia County, very low to medium concentrations in the Mosquito Lagoon region of Volusia County and background concentrations to 'not present' in Brevard County. Recent imagery is obscured in this region; however a patch of high chlorophyll (>10µg/L) remains visible near shore in southern Volusia County at approximately 28°59'28"N 80°49'6"N (11/28). Continued sampling is recommended

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

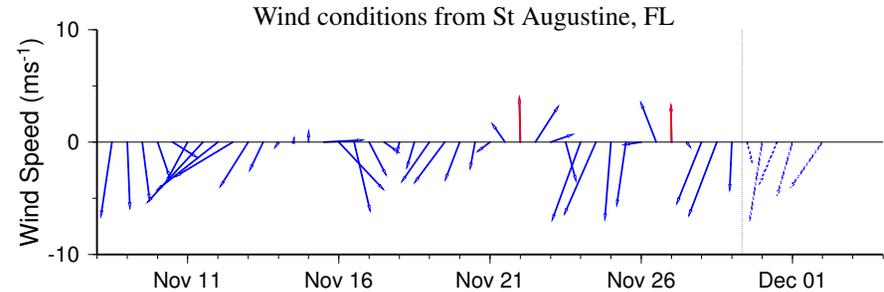
1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.

alongshore and offshore Volusia and Brevard Counties. Respiratory irritation and dead fish have been reported in Volusia and central Brevard Counties over the past few days. Onshore winds through Saturday may increase the potential for impacts at the coast throughout the bloom region and promote bloom intensification in southern Volusia County. ~Fisher, Allen



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from November 19 to 28 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:

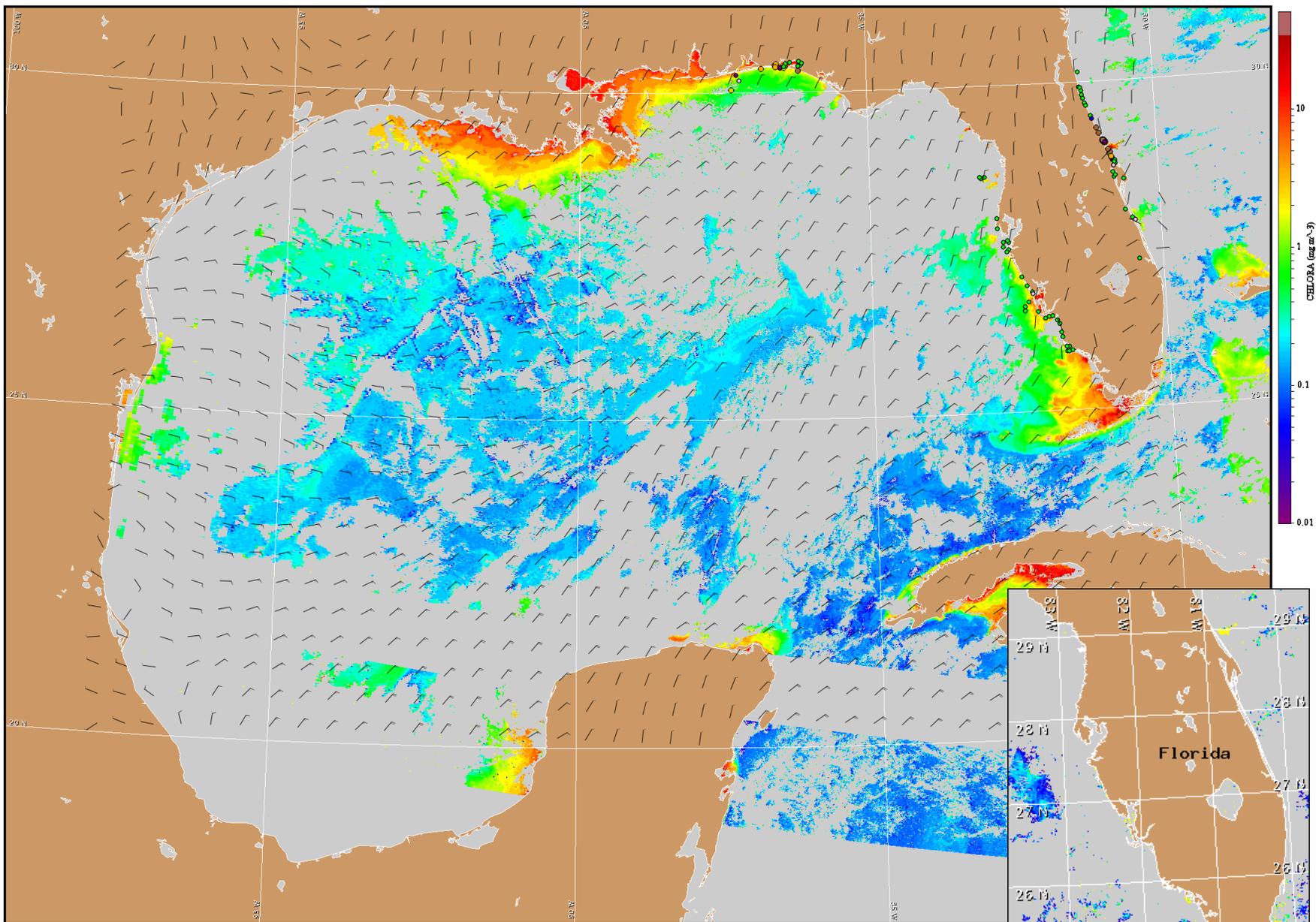
http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf



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: Southeasterlies today shifting northeasterly tonight (5-10kts, 3-5m/s). Northeast winds Friday shifting easterly Friday night through Sunday (5-10kts; Sunday 10-15kts, 5-8m/s). Northwest winds expected Monday.

NE Florida: Variable south to southeasterlies today and tonight (5kts, 3m/s). West winds Friday shifting north to northeast (5-10kts, 3-5m/s). Northeast winds Saturday (10-15kts, 5-8m/s) shifting easterly Saturday night (5-10kts). South winds Sunday (5-10kts). West winds expected Monday.



Satellite chlorophyll image and forecast winds for November 30, 2007 12Z with Cell concentration sampling data from November 19 to 28 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

Verified 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 Naples, FL

