Gulf of Mexico Harmful Algal Bloom Bulletin

9 October 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: October 4, 2007

Conditions Report

NE Florida: A harmful algal bloom has been identified from Nassau to Volusia County. Patchy moderate impacts are possible today in St. Johns, Flagler, and northern Volusia Counties, with patchy very low impacts possible tomorrow through Thursday. Patchy low impacts are possible today in Duval County, with patchy very low impacts possible tomorrow through Thursday. Patchy very low impacts are possible today in Nassau County, with no impacts expected tomorrow through Thursday.

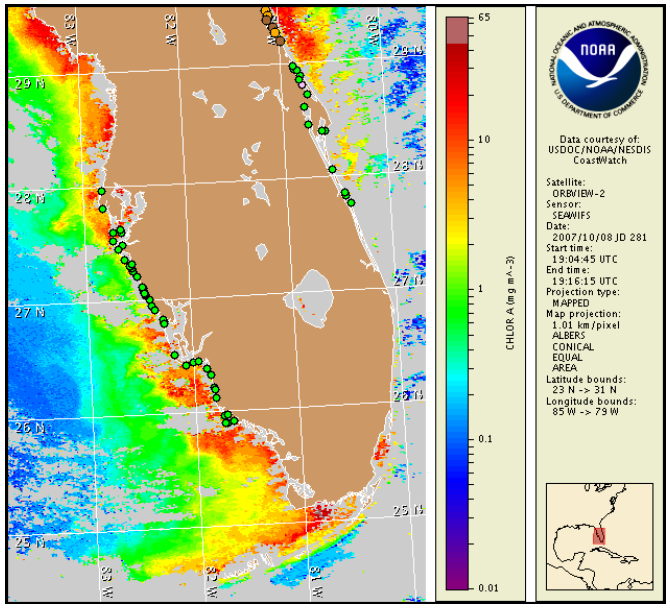
SW Florida: No impacts are expected in southwest Florida today through Thursday, October 11.

Analysis

NE Florida: A harmful algal bloom persists from Nassau to northern Volusia County, ranging from present and very low concentrations in Nassau County, and low concentrations in Duval County, to medium concentrations in St. Johns, Flagler, and Volusia County (FWRI, 10/2-3). The bloom was confirmed in Volusia County on 10/3 (FWRI), and extends as far south as Daytona Beach. Recent samples indicate that the bloom was not present in Brevard or Indian River Counties as of 10/4 (FWRI). High chlorophyll levels (>10μg/L) along the northeastern coast of Florida extend as far south as central Volusia County at 29°1'53"N, 80°49'9"W, south of New Smyrna Beach. Continued sampling is recommended. Easterly winds today will likely increase impacts along the coast. Slight southerly transport of the bloom is possible through Thursday.

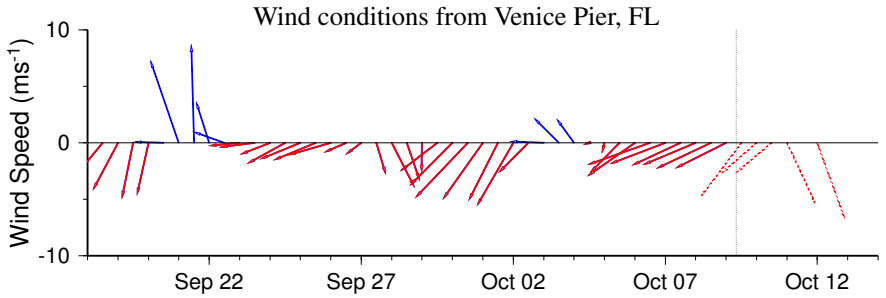
SW Florida: Recent samples from Pinellas to Collier County indicate no *Karenia brevis* presence along the coast of southwestern Florida (FWRI; 10/1-10/3). Samples offshore Pinellas and Sarasota Counties contained background to very low concentrations of K. brevis (FWRI, 10/3). Imagery from 10/8 continues to show several patches of high chlorophyll alongshore the southwestern Florida coast, which is most likely due to non-harmful algae. However, continued sampling is recommended. No impacts are expected along southwest Florida today through Thursday.

~Keller, Allen



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from October 1 to 8 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:

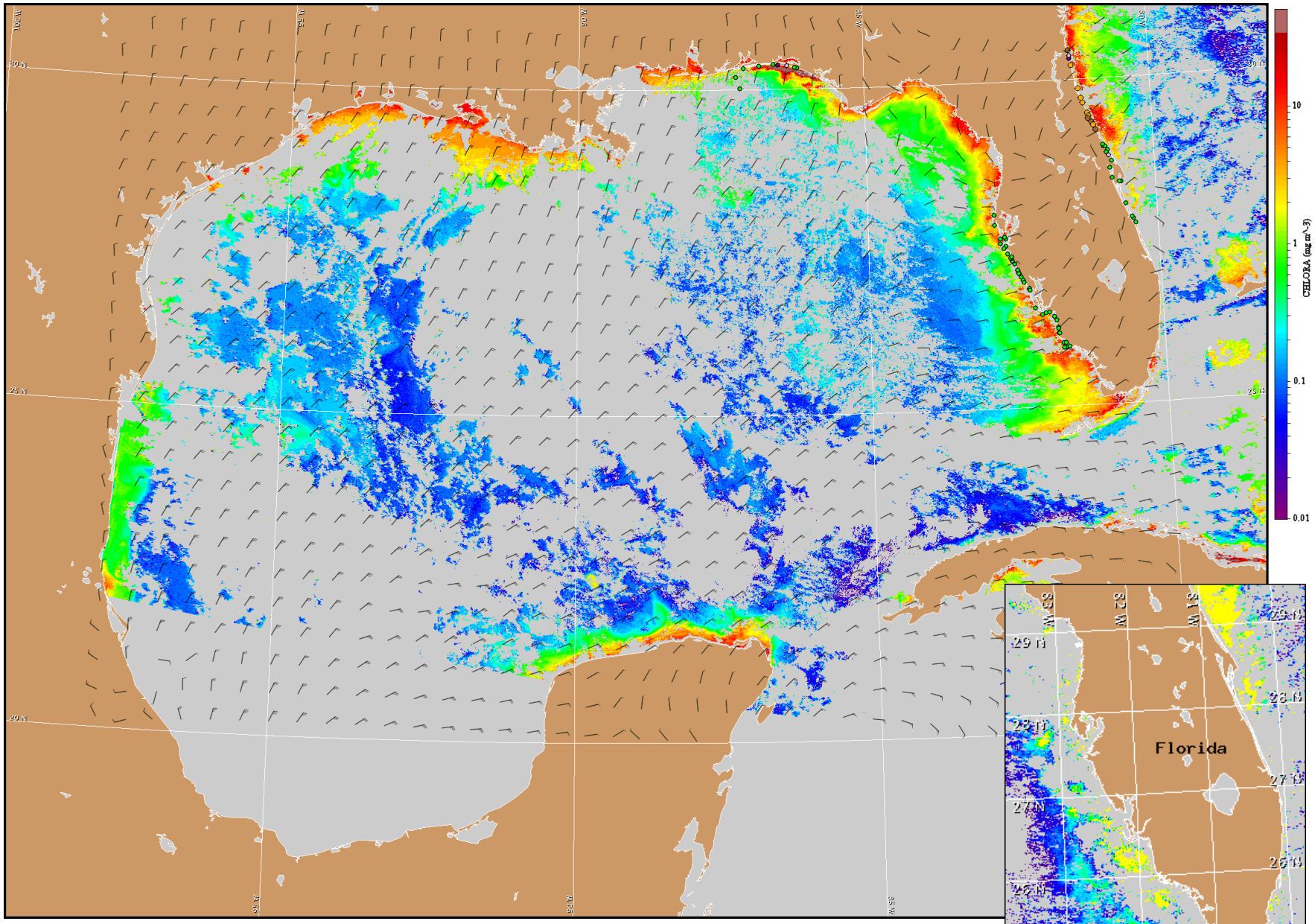
http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf



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.

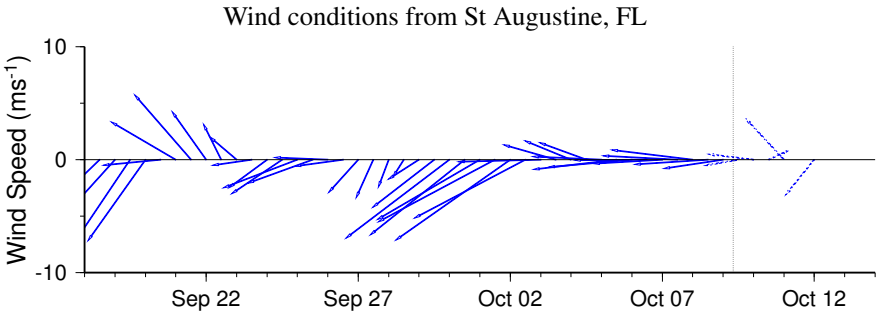
NE Florida: Easterly winds today becoming southeast this evening (5-10 knots; 3-5 m/s). Southerly winds on Wednesday, with north to northwesterly winds on Thursday (10-15 knots; 5-8 m/s).

SW Florida: Northeasterly winds today, with easterly winds tonight through Wednesday (5-10 knots; 3-5 m/s). Northerly winds Wednesday night through Thursday (10-15 knots; 5-8 ms/).



Satellite chlorophyll image and forecast winds for October 10, 2007 12Z with Cell concentration sampling data from October 1 to 8 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 St Augustine, FL
Wind Speed (ms-1)
10
0
-10
Sep 22
Sep 27
Oct 02
Oct 07
Oct 12