



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida

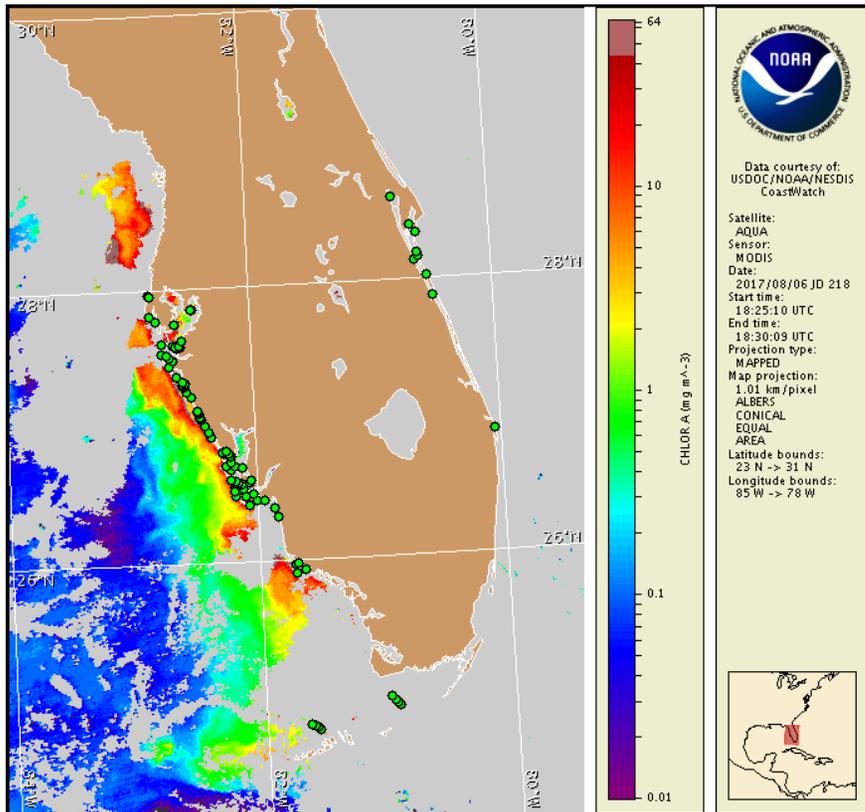
Monday, 07 August 2017

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, July 31, 2017



Satellite chlorophyll image with possible K. brevis HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from July 28 to August 2: 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 Fish and Wildlife Conservation Commission (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:

https://tidesandcurrents.noaa.gov/hab/hab_publication/GOMX_HAB_Bulletin_Guide.pdf

Detailed sample information can be obtained through FWC Fish and Wildlife Research Institute at:

<http://myfwc.com/redtidestatus>

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit at: <https://tidesandcurrents.noaa.gov/hab/gomx.html>

Conditions Report

Karenia brevis (commonly known as Florida red tide) ranges from not present to background concentrations along the coast of southwest Florida, including the Florida Keys. No respiratory irritation is expected alongshore southwest Florida Monday, August 7 through Monday, August 14. For recent, local observations and data check Mote Marine Laboratory Daily Beach Conditions (<http://visitbeaches.org/>) and the Florida Fish and Wildlife Conservation Commission Red Tide Status (<http://myfwc.com/redtidestatus>).

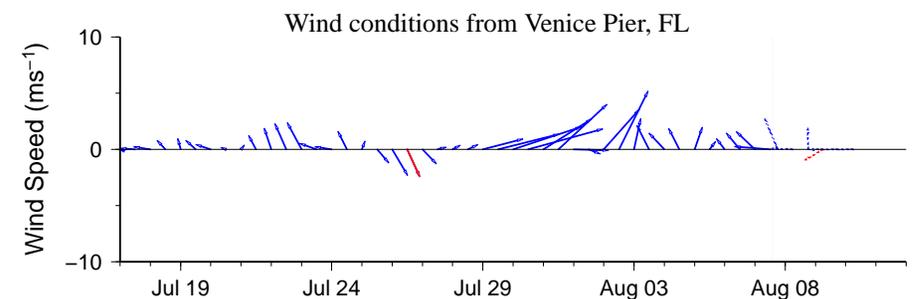
Analysis

Recent samples received from along- and offshore southwest Florida, from Pinellas to Monroe counties, including the Florida Keys, all indicate that *Karenia brevis* is not present, with the exception of one sample with background concentrations collected in central Lee County (FWRI, SCHD, MML, CCPCD; 7/28-8/2).

Recent ensemble imagery (MODIS Aqua, 8/6; shown left) is partially obscured by clouds along- and offshore southwest Florida from Pinellas to Collier counties, limiting analysis. Patches of elevated to high chlorophyll (2 to >20 µg/L) are visible along- and offshore Pinellas to central Collier County with the optical characteristics of *K. brevis*, likely the result of mixed non-harmful algal blooms that continue to be reported in the region.

Forecasted winds reduce the potential for harmful algal bloom formation at the coast of southwest Florida today through Friday, August 11.

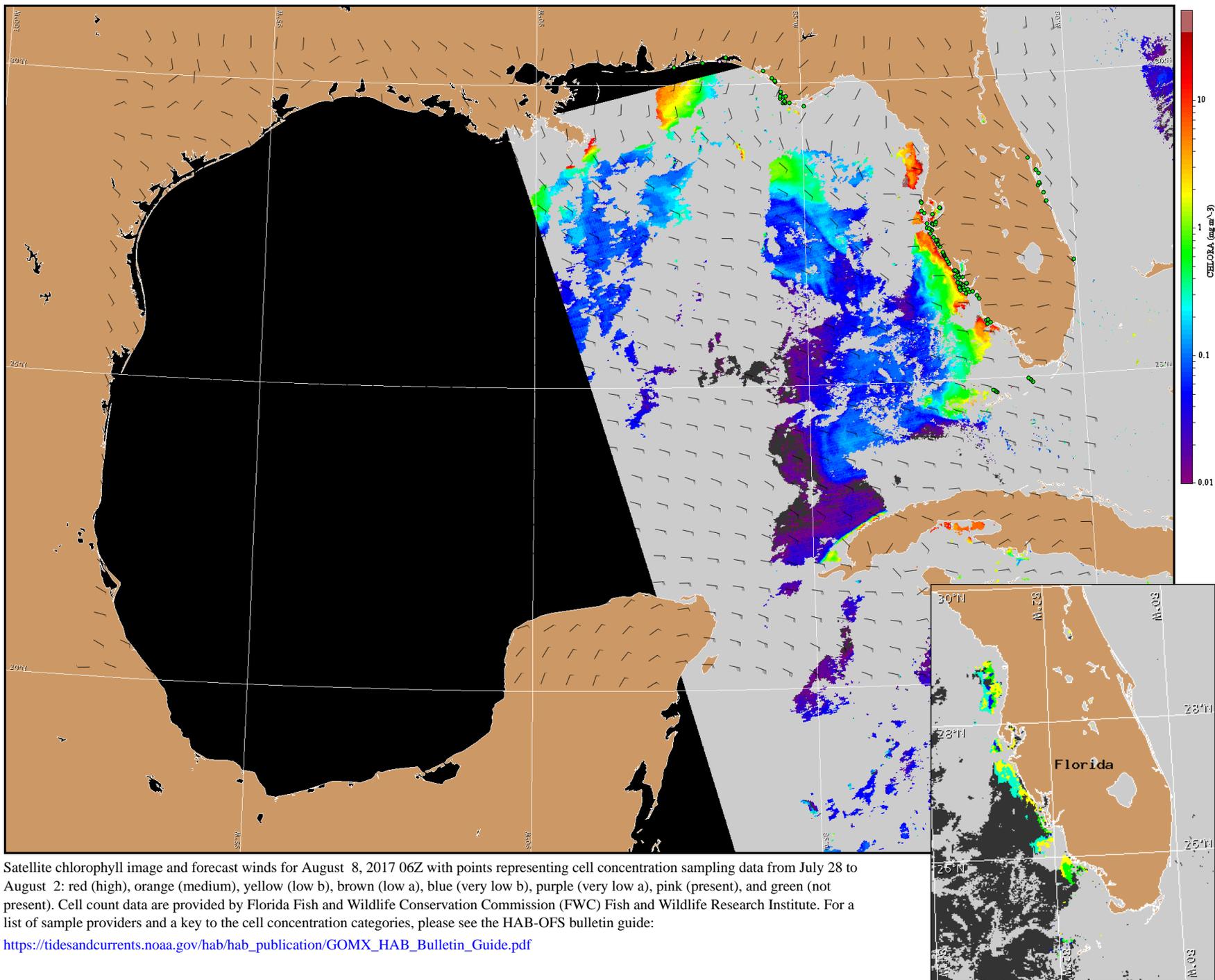
Urizar, Ludema



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. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

Wind Analysis

Englewood to Tarpon Springs (Venice): Variable winds (5-15 kn, 3-8 m/s) today and tomorrow. Southeast to southwest winds (5-10 kn, 3-5 m/s) Wednesday with northeast to east winds (5 kn, 3 m/s) Wednesday night. Northeast to east winds (5-10 kn) Thursday. East winds (5 kn) Friday with northwest winds Friday afternoon.



Satellite chlorophyll image and forecast winds for August 8, 2017 06Z with points representing cell concentration sampling data from July 28 to August 2: 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 Fish and Wildlife Conservation Commission (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:

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Verified and suspected HAB areas shown in red. Other areas with *K. brevis* optical characteristics shown in yellow (see p. 1 analysis for interpretation).