



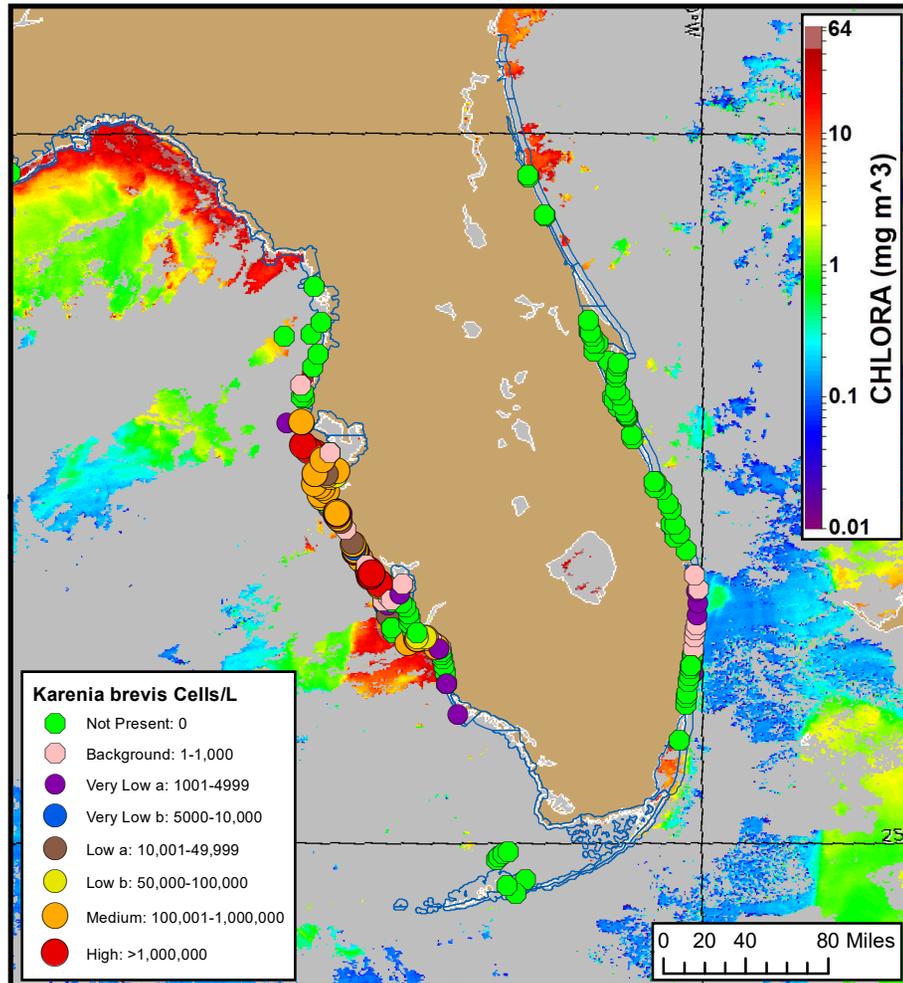
# Florida Algal Bloom Bulletin

Tuesday, November 20, 2018  
NOAA National Ocean Service  
NOAA Satellite and Information Service  
NOAA National Weather Service

Region: East Florida



Instructions for viewing this geospatial pdf are available at: <https://go.usa.gov/xn9g2>.



*Karenia brevis* cell concentration sampling data from: 11/10/18 through 11/19/18. 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: [https://tidesandcurrents.noaa.gov/hab/hab\\_publication/GOMX\\_HAB\\_Bulletin\\_Guide.pdf](https://tidesandcurrents.noaa.gov/hab/hab_publication/GOMX_HAB_Bulletin_Guide.pdf). Detailed sample information can be obtained through the Florida FWC Fish and Wildlife Research Institute: <http://myfwc.com/REDTIDESTATUS>.

MODIS Aqua satellite chlorophyll image (11/18/18) with possible *K. brevis* HAB areas shown by red polygon(s).

## Conditions Report

Not present to very low concentrations of *Karenia brevis* (commonly known as red tide) are present alongshore portions of east Florida. No respiratory irritation associated with *K. brevis* is expected in this region.

### Recently Reported Impacts (Listed by County):

**Respiratory irritation:** None  
**Dead fish:** None

## Analysis

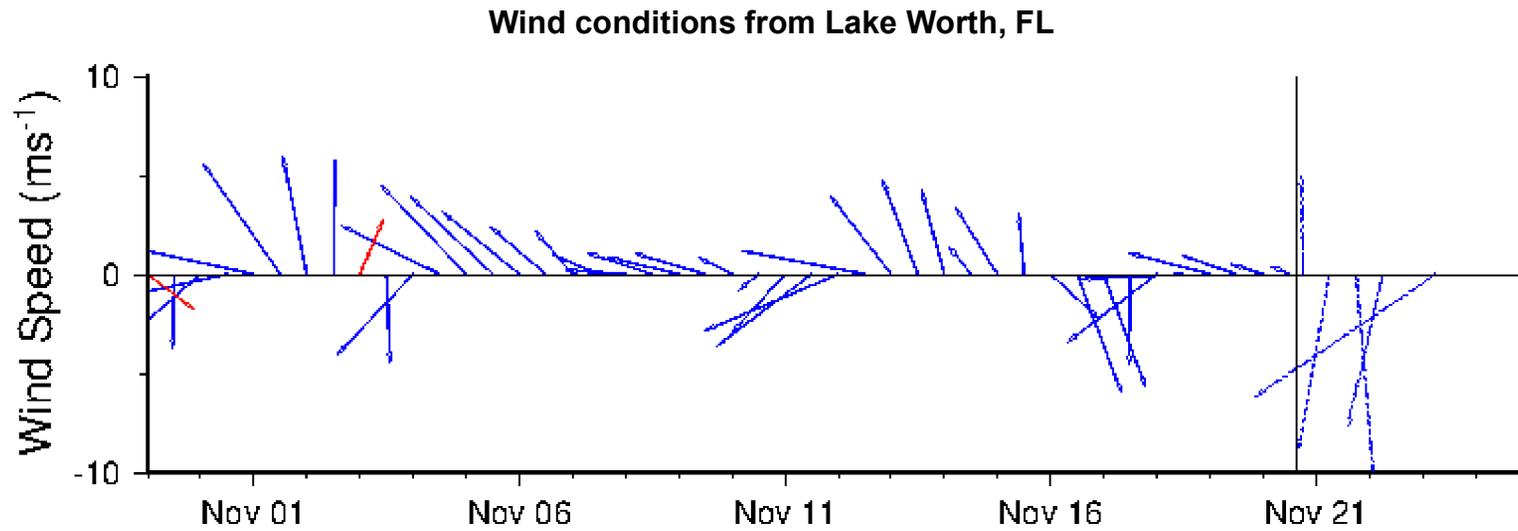
### Imagery:

Recent ensemble imagery (MODIS Aqua, 11/18) is obscured by clouds throughout Miami-Dade County and north of Palm Beach County, limiting analysis. Recent imagery does not show any patches of chlorophyll with the optical characteristics of *K. brevis* at the coast of east Florida where sampling indicates very low concentrations remain.

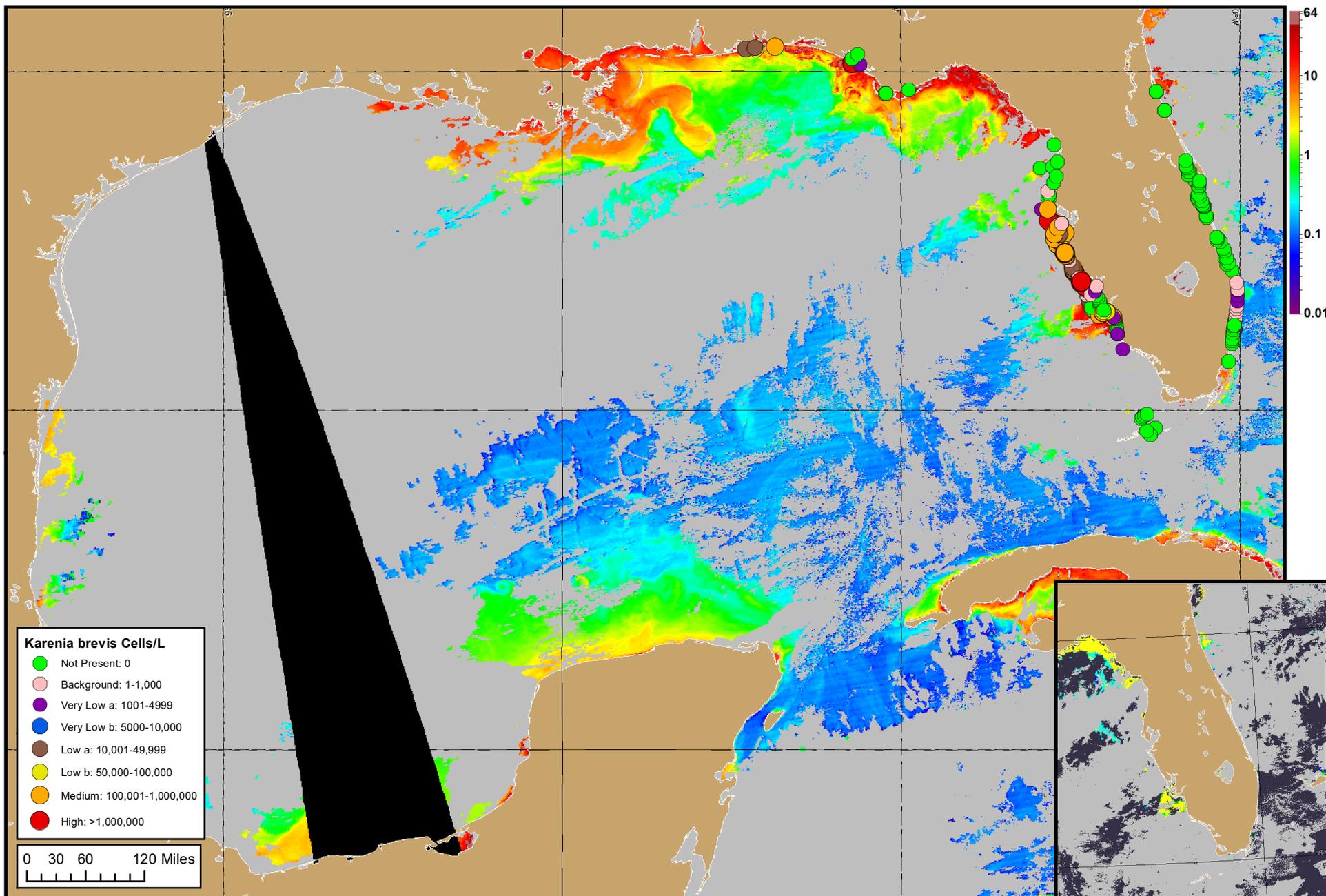
### Forecasts:

Forecast winds and currents Wednesday through Friday (11/21-23) will promote the northerly transport of remaining surface *K. brevis* concentrations.

Ludema, Davis



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). A text summary of the marine forecast by region is available from NWS at <https://go.usa.gov/xnx4B>.



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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).

MODIS Aqua satellite chlorophyll image (11/18/18).