



Gulf of Mexico Harmful Algal Bloom Bulletin

Monday, June 4, 2018

NOAA National Ocean Service

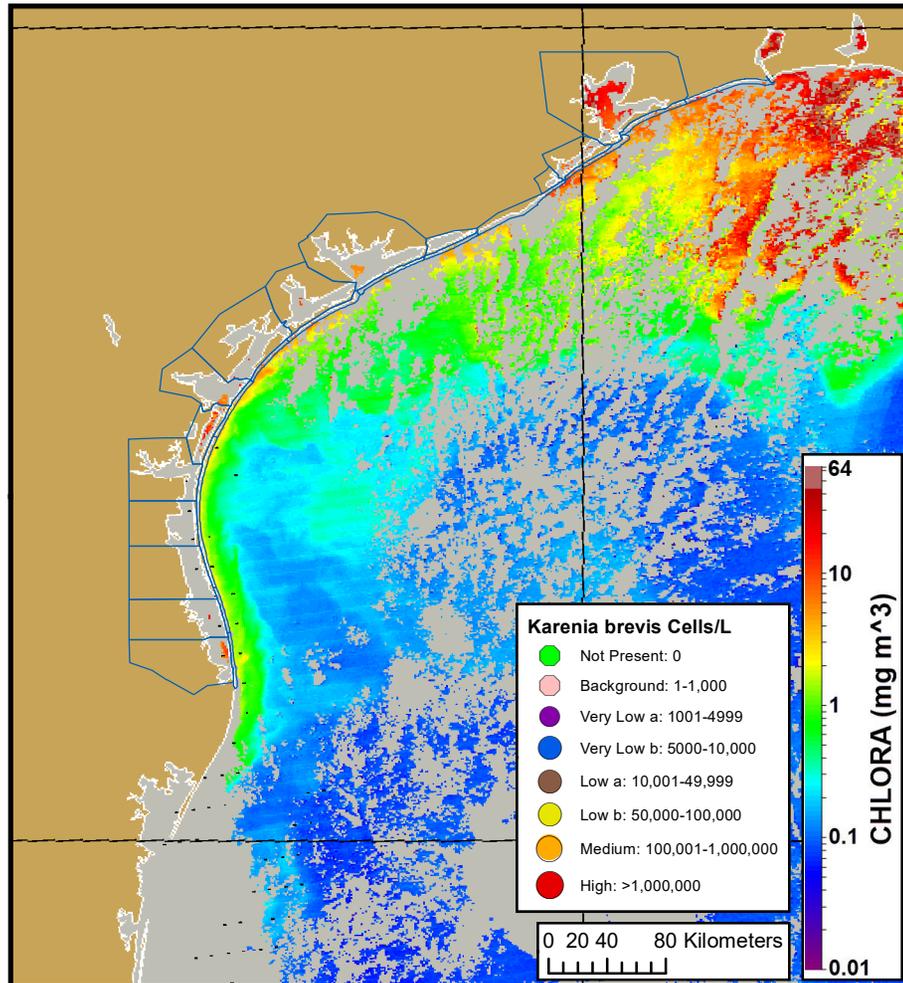
NOAA Satellite and Information Service

NOAA National Weather Service

Region: Texas



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



Conditions Report

No respiratory irritation associated with *Karenia brevis* (commonly known as red tide) is expected in this region.

Analysis

Imagery:

Recent ensemble imagery (MODIS Aqua, 6/1) shows elevated chlorophyll (2-10 $\mu\text{g/L}$) along the coast of Texas. However, elevated chlorophyll is most likely due to the resuspension of benthic chlorophyll and sediments along the coast.

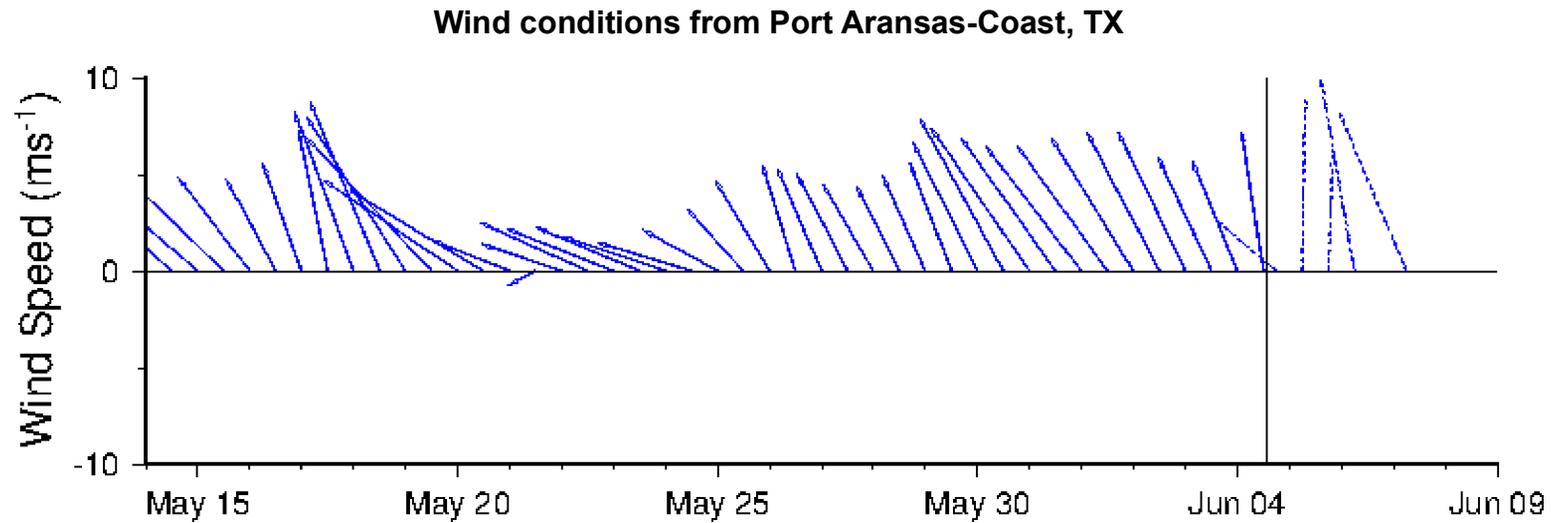
Forecasts:

Forecast models based on predicted near-surface currents indicate a potential maximum transport of 140km north along the coast from Port Aransas from June 1- June 7.

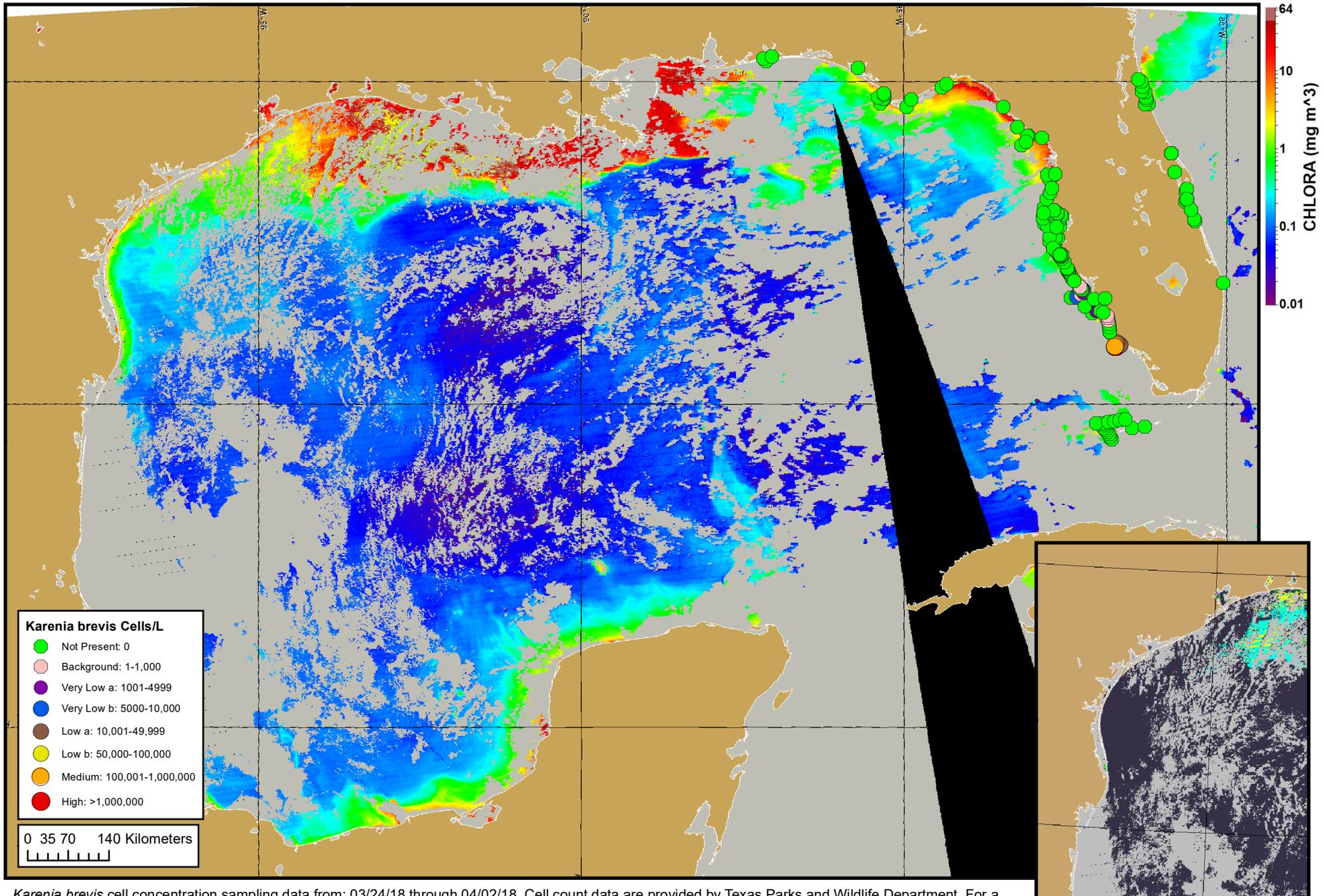
Yang, Davis

Karenia brevis cell concentration sampling data from: 03/24/18 through 04/02/18. Cell count data are provided by Texas Parks and Wildlife Department. 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 the Texas Parks and Wildlife Department at: <http://www.tpwd.state.tx.us/landwater/water/enviroconcerns/hab/redtide/status.phtml>.

MODIS Aqua satellite chlorophyll image (06/01/18) with possible *K. brevis* HAB areas shown by red polygon(s).



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 <http://go.usa.gov/xnRax>.



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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 (06/01/18).