



# Gulf of Mexico Harmful Algal Bloom Bulletin

Monday, April 16, 2018

NOAA National Ocean Service

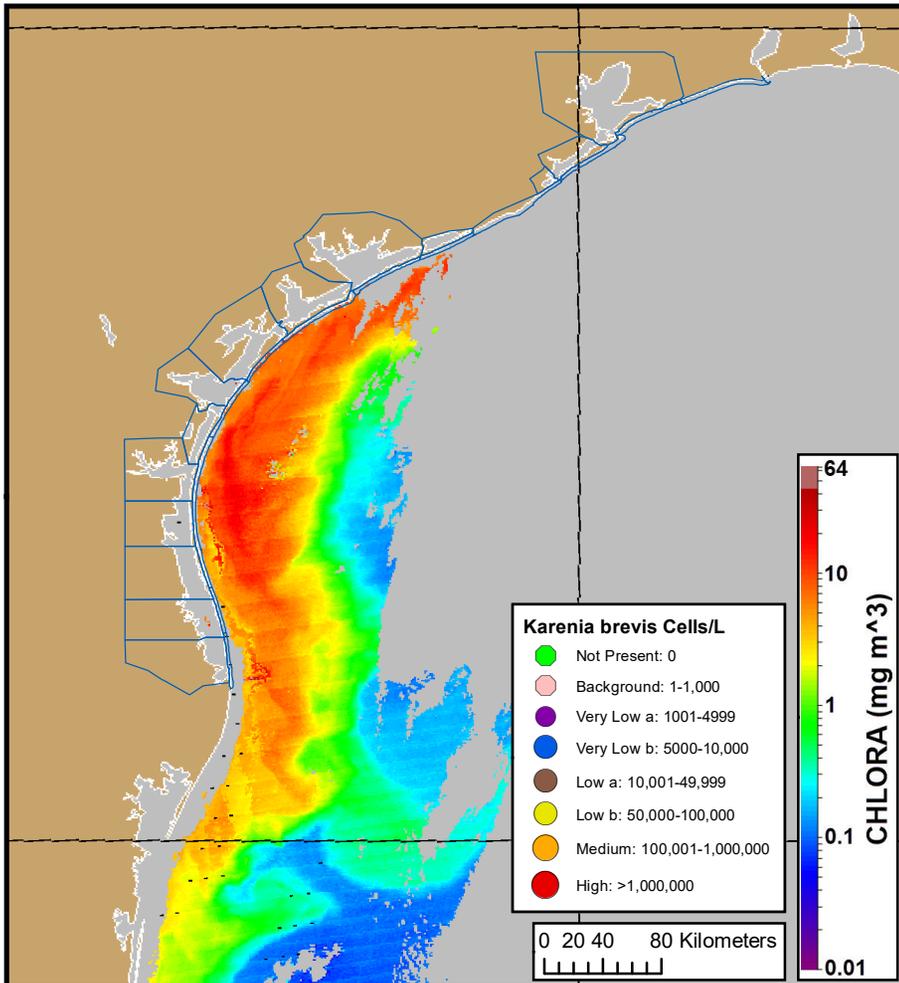
NOAA Satellite and Information Service

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 Texas red tide) is expected in this region.

## Analysis

### Imagery:

Recent ensemble imagery (MODIS Aqua, 4/14) is obscured by clouds from Sabine Pass to Matagorda Bay, limiting analysis. Patches of elevated to very high chlorophyll (1 to >20  $\mu\text{g/L}$ ) are present alongshore from East Matagorda Bay to south of Padre Island National Seashore. However, elevated chlorophyll in this region is most likely due to the resuspension of benthic chlorophyll and sediments along the coast.

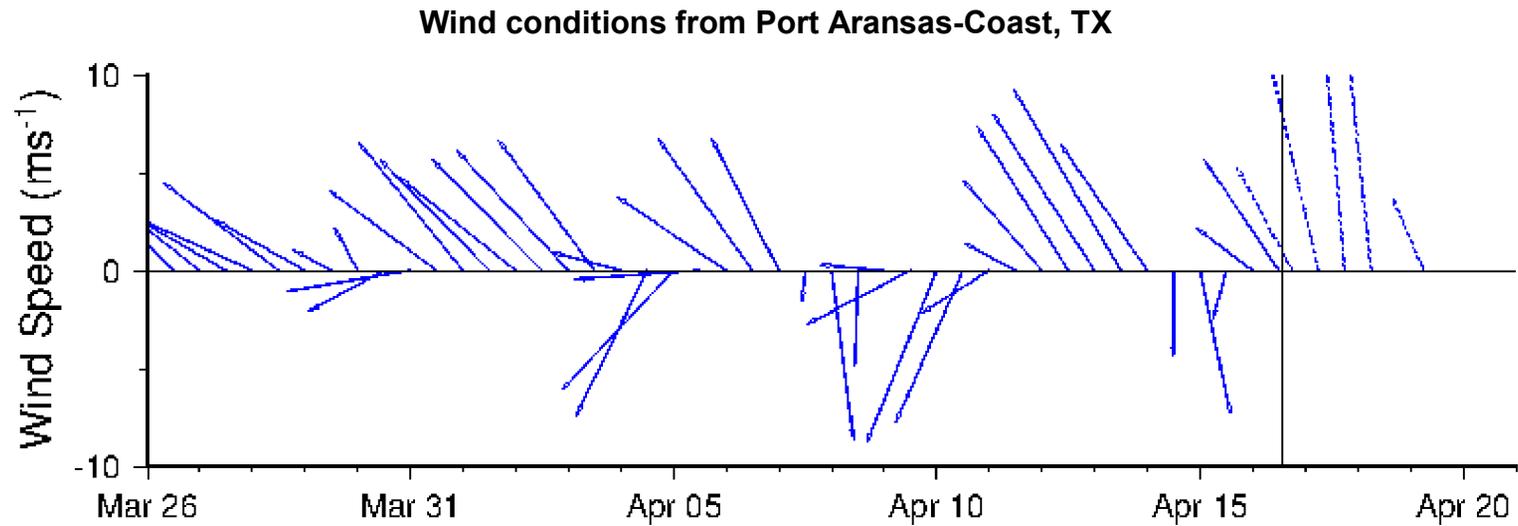
### Forecasts:

Forecast models based on predicted near-surface currents indicate a potential maximum transport of 120 km north along the coast from Port Aransas from April 14-19.

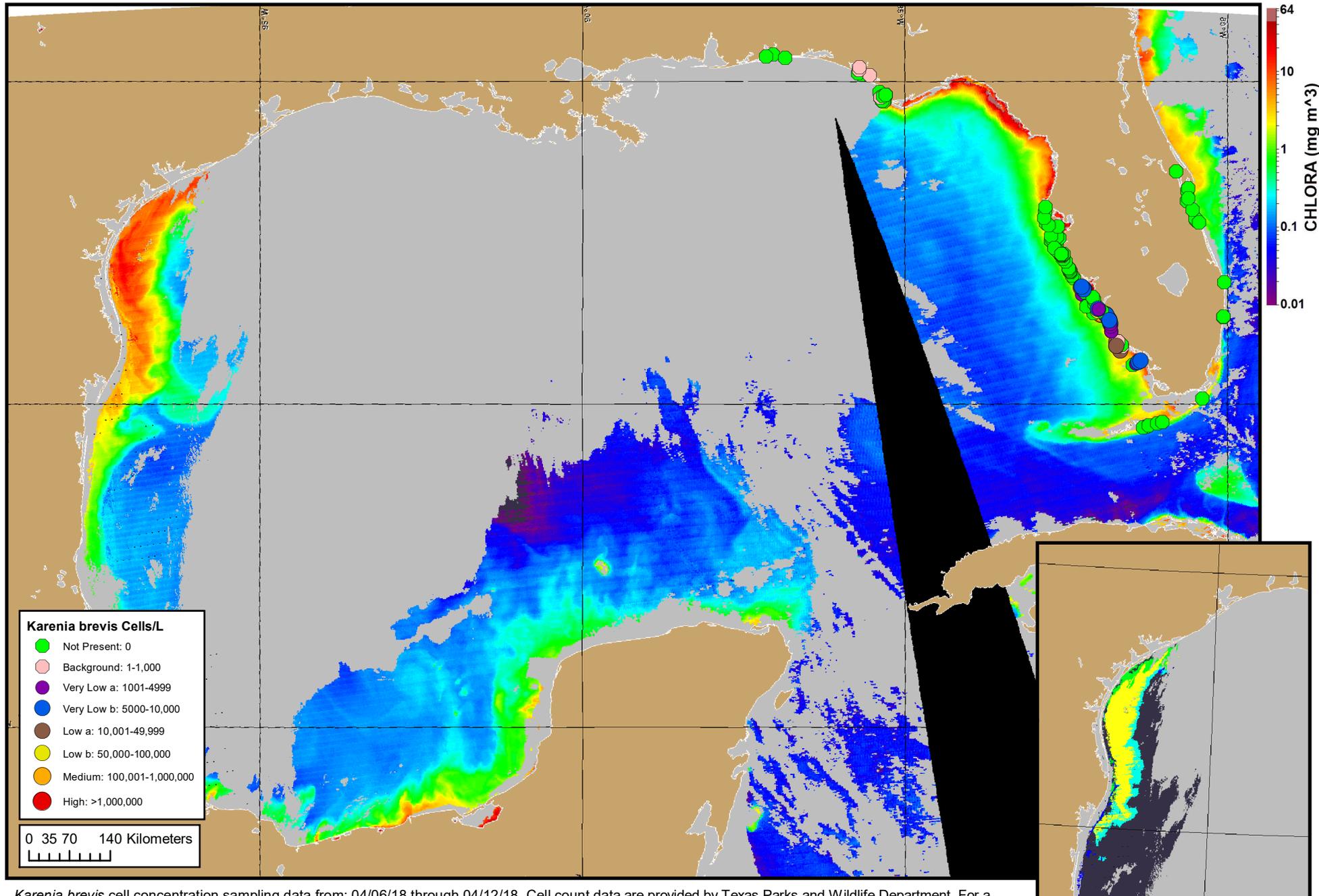
Keeney, Kavanaugh

*Karenia brevis* cell concentration sampling data from: 04/06/18 through 04/12/18. 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](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 (04/14/18) 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 (04/14/18).