



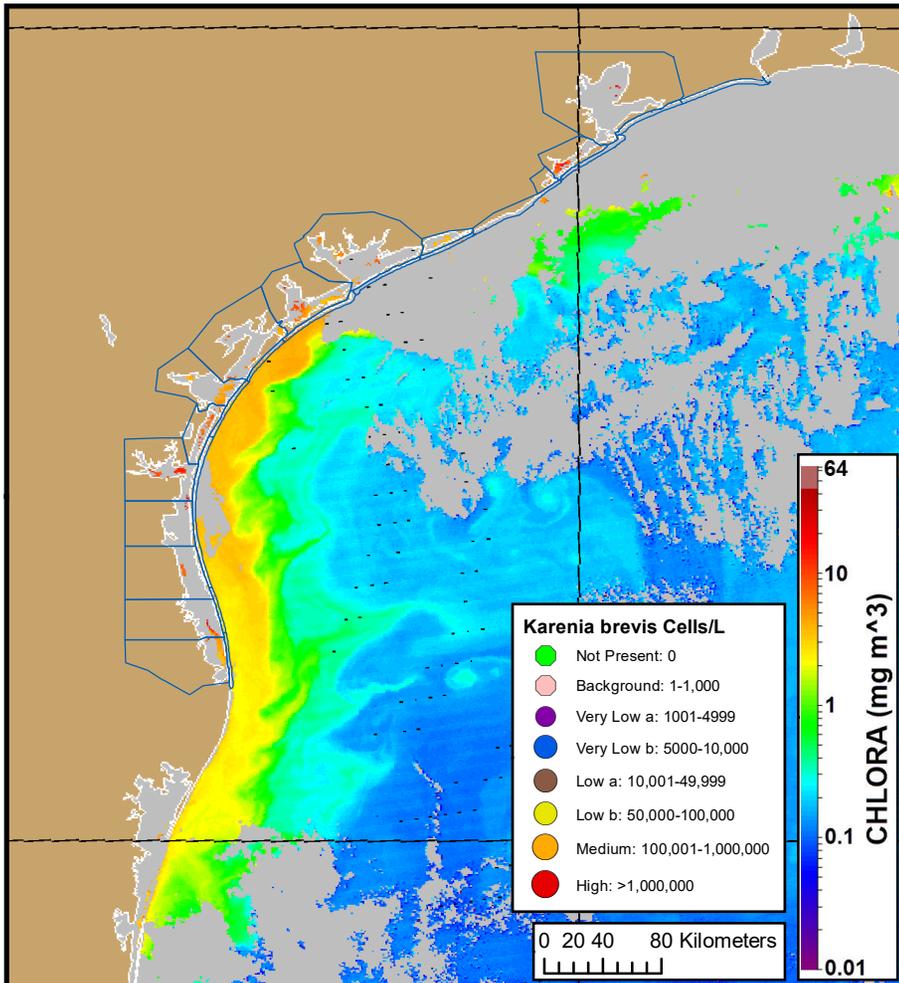
# Gulf of Mexico Harmful Algal Bloom Bulletin

Tuesday, February 20, 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>.



*Karenia brevis* cell concentration sampling data from: 02/11/18 through 02/19/18. 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 satellite chlorophyll image (02/18/18) with possible *K. brevis* HAB areas shown by red polygon(s).

## Conditions Report

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

## Analysis

### Imagery:

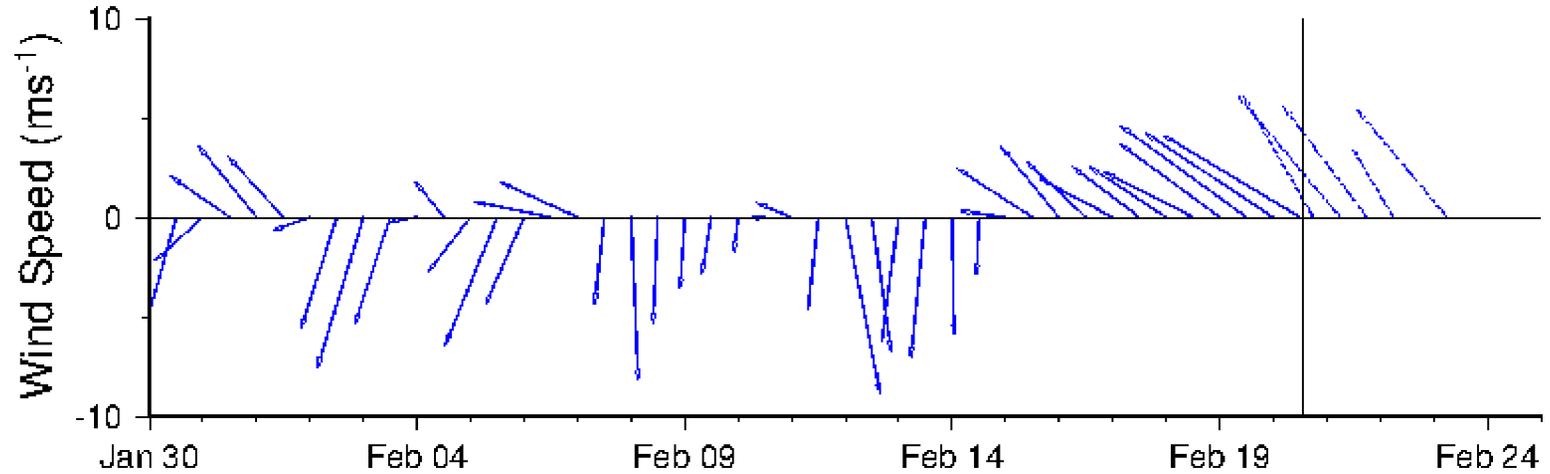
Recent ensemble imagery (MODIS Aqua, 2/18) is mostly obscured by clouds, limiting analysis. Elevated chlorophyll (2-4  $\mu\text{g/L}$ ) is present alongshore the Padre Island National Seashore. However, elevated chlorophyll in this region is most likely due to the resuspension of benthic chlorophyll and sediments along the coast, and does not indicate the presence of chlorophyll anomalies with the optical characteristics of *K. brevis*.

### Forecasts:

Forecast models based on predicted near-surface currents indicate a potential maximum transport of 30 km south along the coast from Port Aransas from February 18-23.

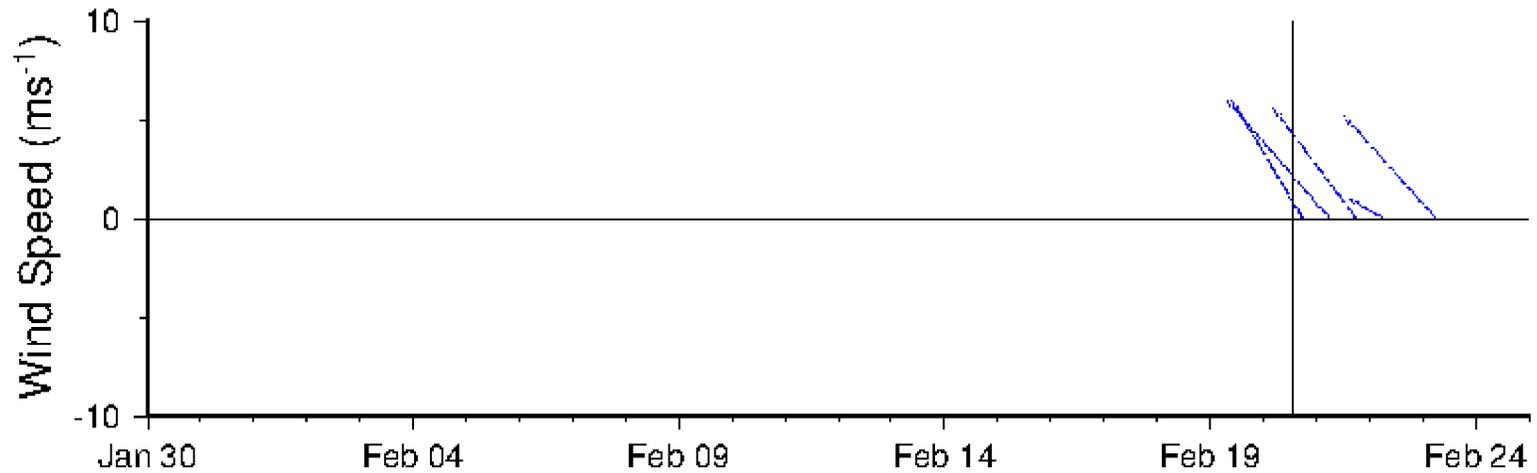
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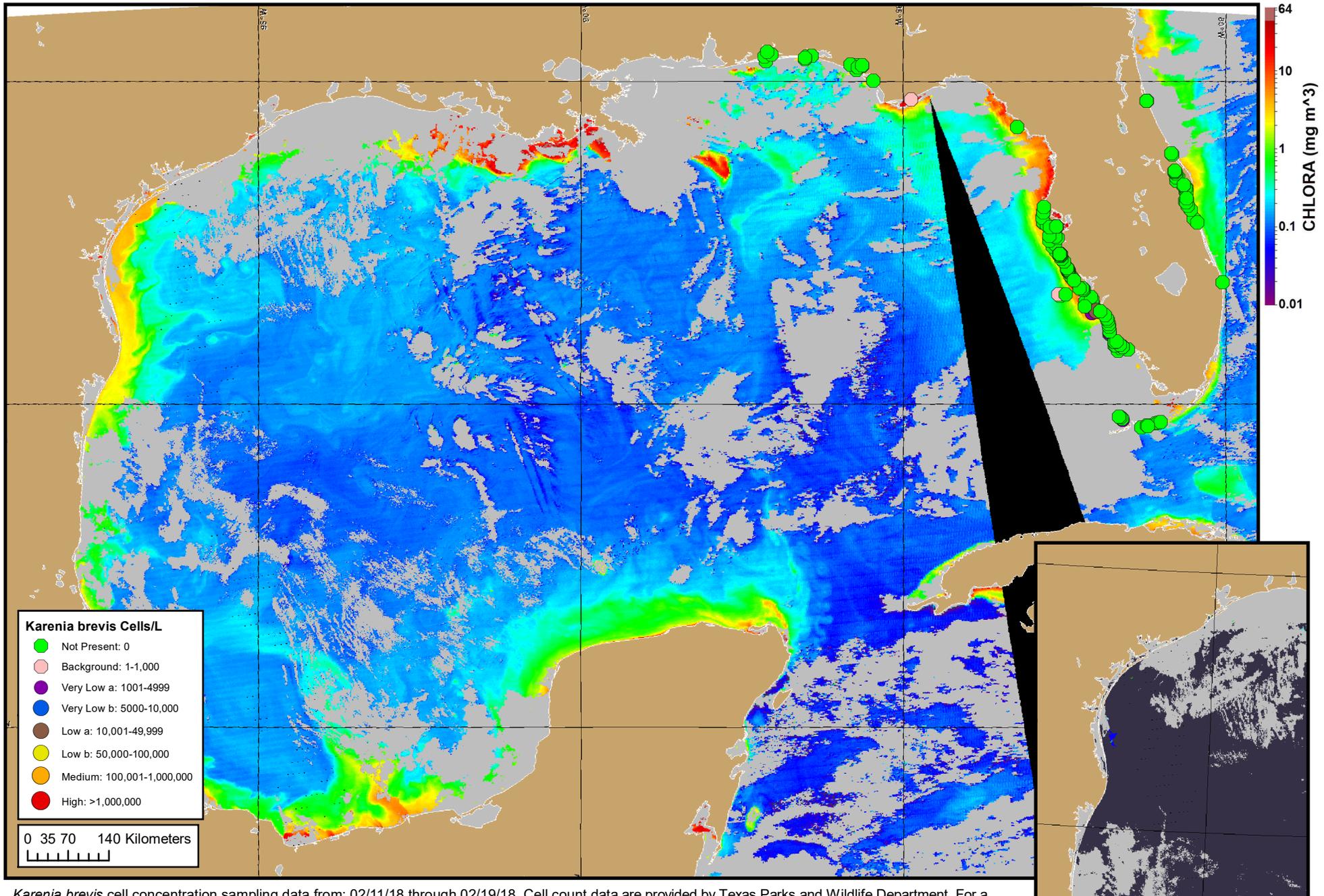
### Wind conditions from Malaquite Beach, TX



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>.

### Wind conditions from Port Aransas-Coast, TX





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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).