



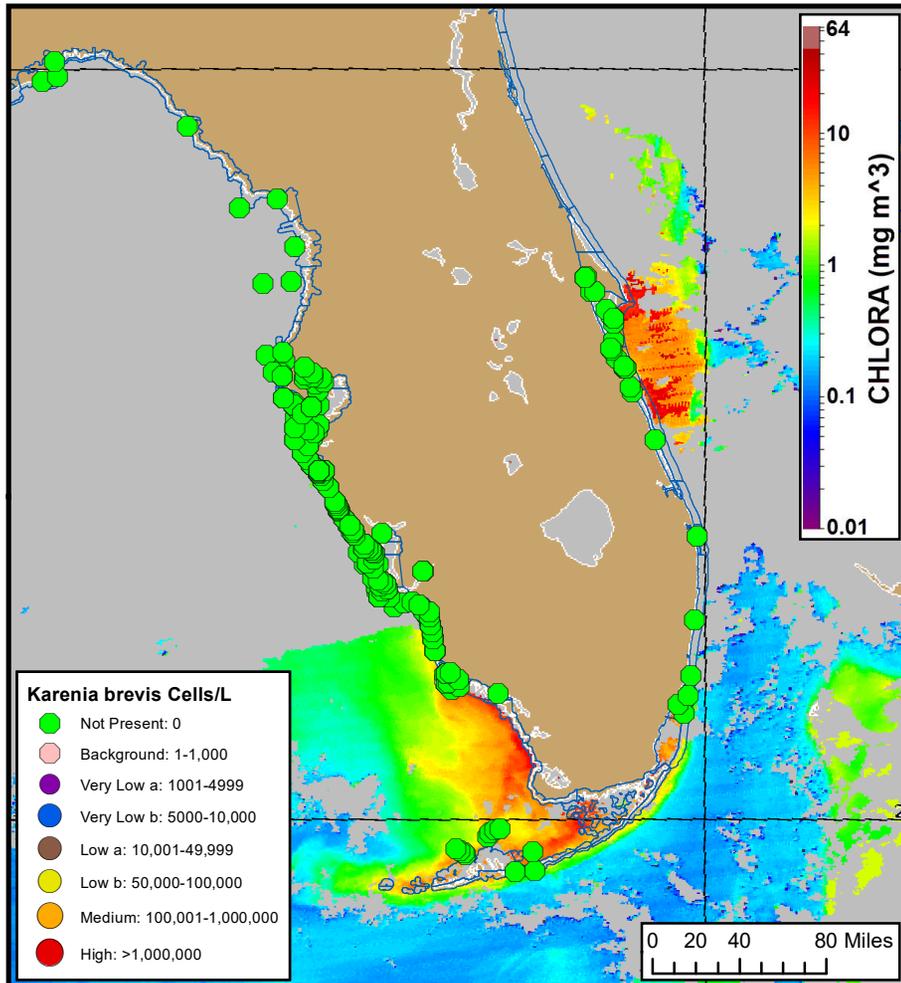
Gulf of Mexico Harmful Algal Bloom Bulletin

Thursday, February 28, 2019
NOAA National Ocean Service
NOAA Satellite and Information Service
NOAA National Weather Service

Region: Southwest Florida



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



Karenia brevis cell concentration sampling data from: 02/18/19 through 02/27/19. 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. Detailed sample information can be obtained through the Florida FWC Fish and Wildlife Research Institute: <http://myfwc.com/REDTIDESTATUS>.

MODIS Aqua satellite chlorophyll image (02/27/19) with possible *K. brevis* HAB areas shown by red polygon(s).

Conditions Report

Not present to background concentrations of *Karenia brevis* (commonly known as red tide) are present along- and offshore portions of southwest Florida and are not present in the Florida Keys. No respiratory irritation associated with *K. brevis* is expected in this region.

Analysis

Summary of Recent Water Samples:

***K. brevis* Cell Concentrations:**

Range: Not Present to Background

Date: 2/18-2/27

Source: FWRI, MML, SCHD, CCPCD

Imagery:

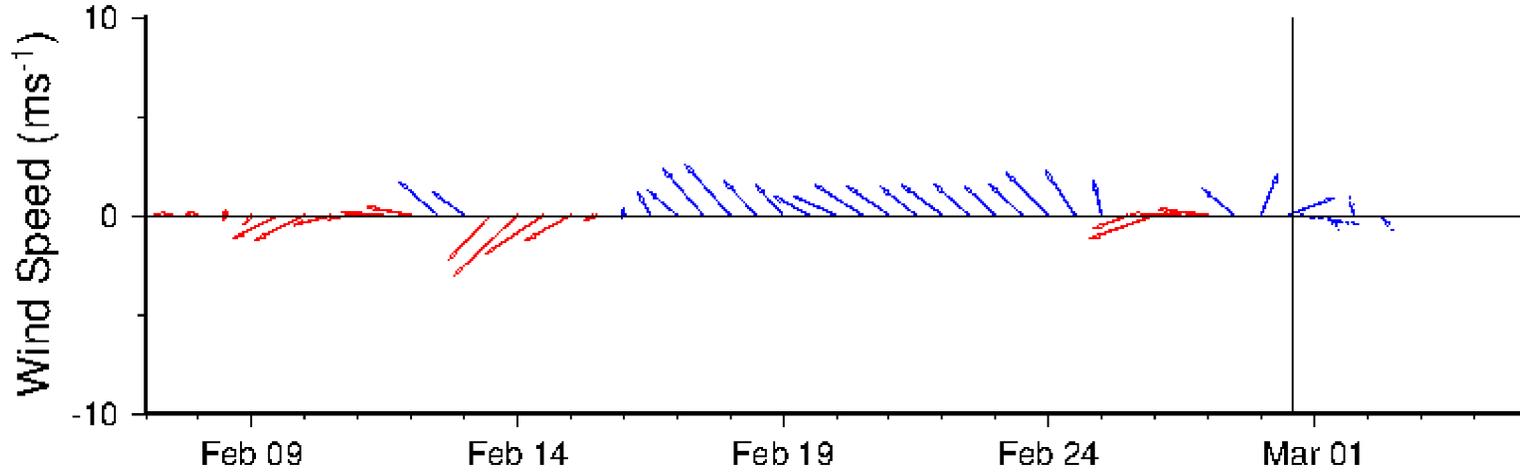
Recent ensemble imagery (MODIS Aqua, 2/27) is obscured by clouds north of Collier County, preventing analysis in this region. Elevated to high chlorophyll (2 to 19 $\mu\text{g/L}$) with some of the optical characteristics of *K. brevis* is present alongshore southwest Florida from Collier to Monroe counties.

Forecasts:

Variable winds today through Monday (2/28-3/4) will decrease the potential for bloom formation at the coast.

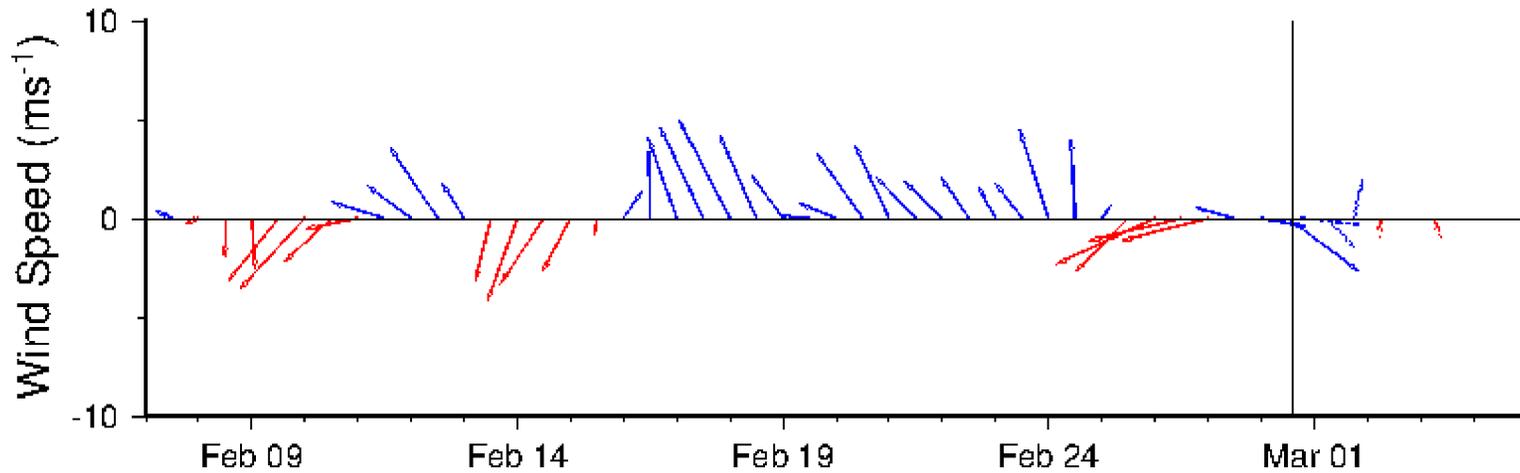
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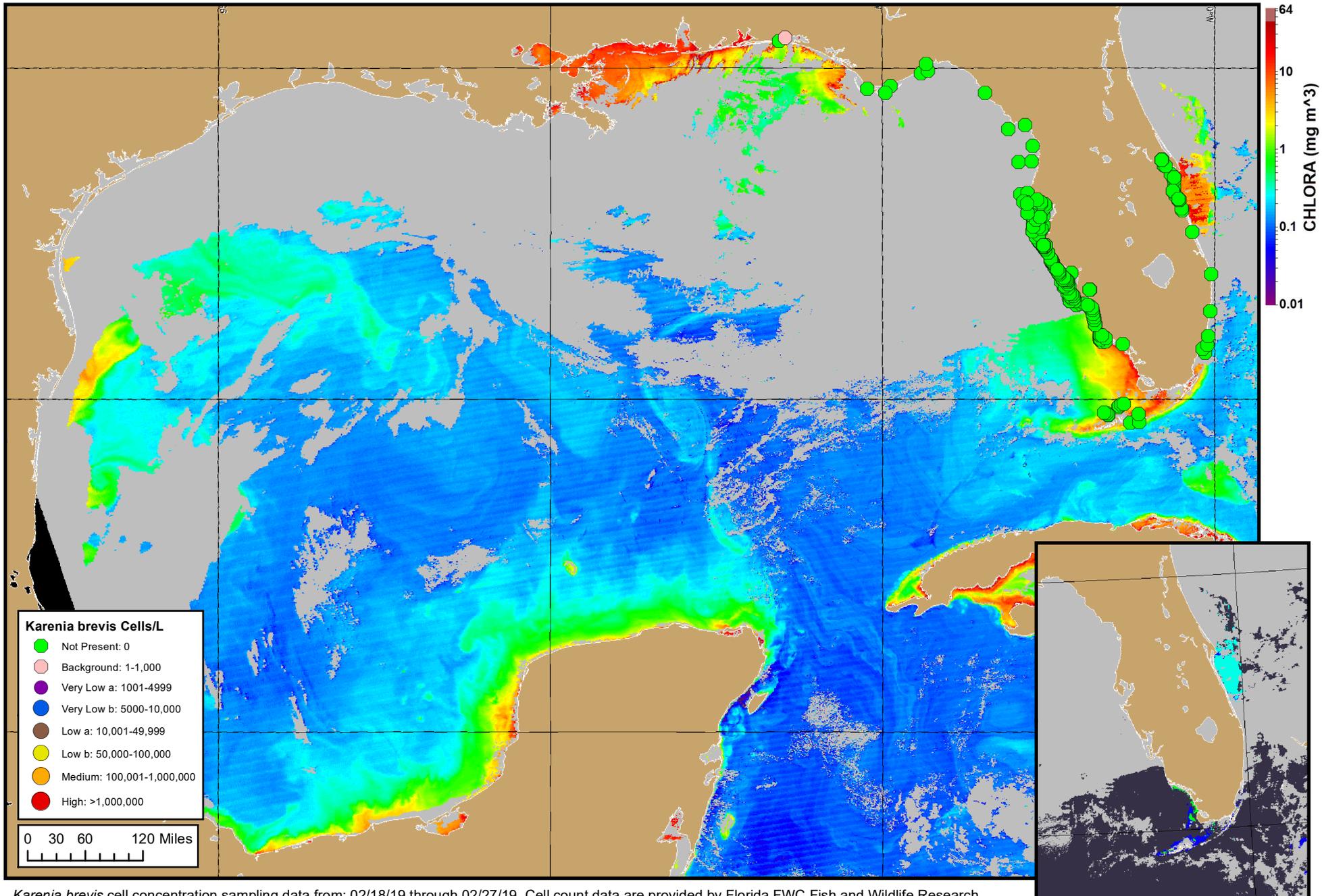
Wind conditions from Naples, FL



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/xnx4y>.

Wind conditions from Venice Pier, FL





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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).