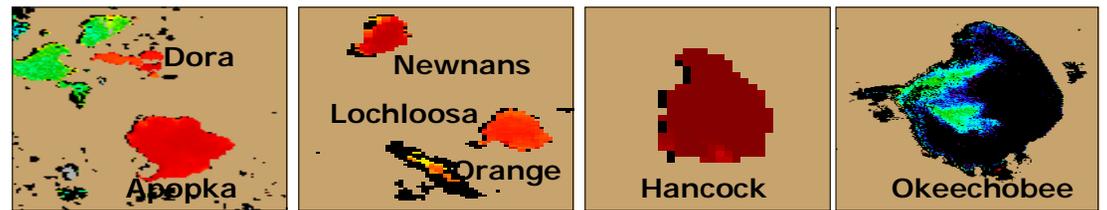


To report an illness related to a marine toxin or algal bloom please contact the Florida Poison Information Center-Miami Aquatic Toxins Hotline at 1-888-232-8635. For questions about the report: contact Becky Lazensky, FL-DOH, at 352-955-1900. Images/data were obtained from Florida Water Management Districts, The National Oceanic and Atmospheric Administration (NOAA), NOAA National Climatic Data Centers and National Weather Centers. Support to produce this report was received through a NOAA/NASA Agreement (Number: NNH08ZDA001N)

Cyanobacteria HABs Conditions Report: March 29

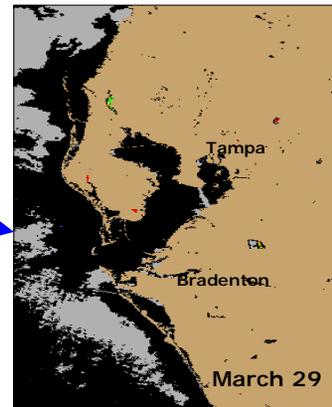
- Lakes Apopka and Dora (Orange and Lake Counties) both displayed high estimated cyanobacteria (cyano.) concentrations.
- Newnans, Lochloosa, & Orange Lakes (Alachua & Marion Counties) and Hancock Lake (Polk) displayed high estimated cyano. concentrations.
- Lake Okeechobee (Glades, Okeechobee, Martin, Palm Beach, & Hendry Counties) displayed low-medium estimated cyano. concentrations.



MERIS Satellite Imagery for the West Coast of Florida

We receive satellite imagery from NOAA which features the Central FL region where most of the large (>1km) water bodies are located. If you have a site of concern which is outside the typical coverage area, other parts of the state can be accessed upon request. We plan to periodically include the west coast of Florida in our satellite health bulletins.

If you would like to request imagery for part of Florida beyond what is depicted in the bulletins, you can contact Becky Lazensky at: (352) 955-1900.



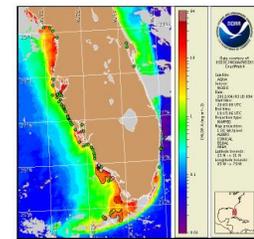
Non Cyano HABs & Health Report: *K. brevis* Update

FWRI/FWC Update: *K. brevis* was detected alongshore of Marco Island (S. Collier County) in very low concentrations & offshore of the Florida Keys (gulf side) in low to medium concentrations, with the highest concentrations detected 8 miles N. of Big Spanish Key.

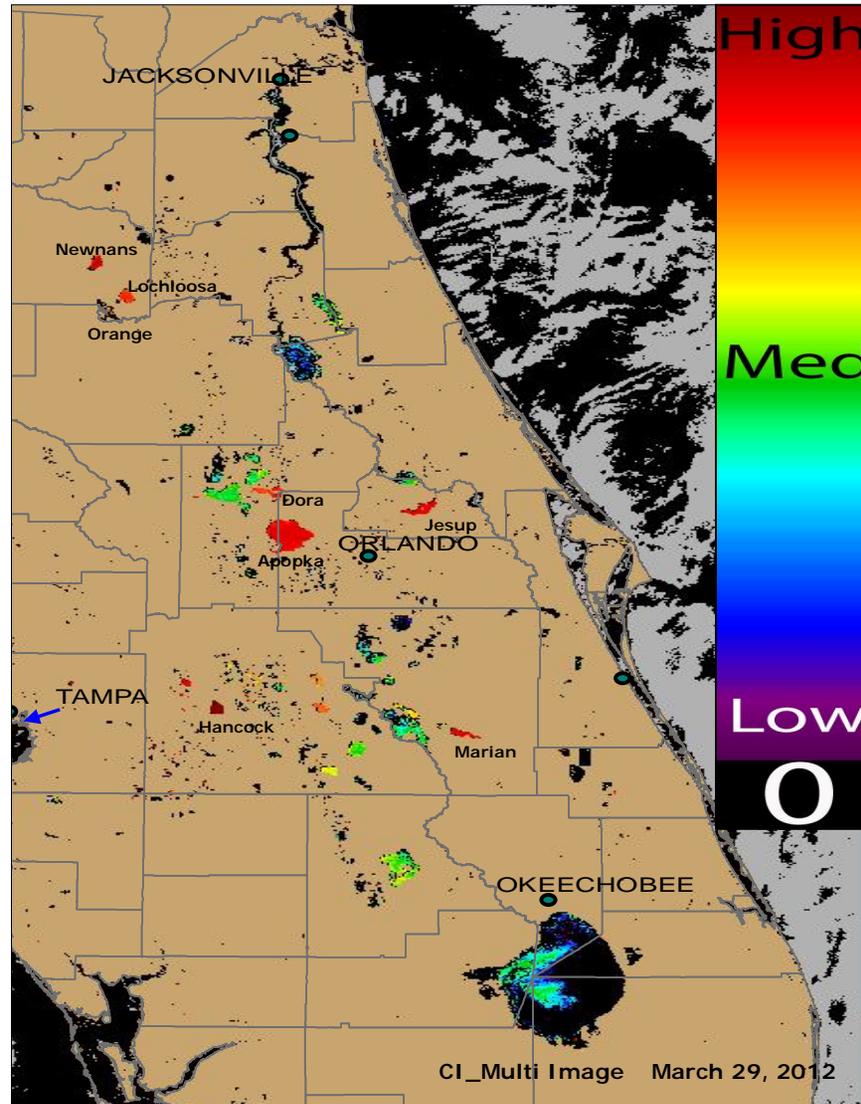
Health Complaints: None reported

To Report a Fish Kill: Call the FWRI/FWC Fish Kill Hotline at: 1-800-636-0511; Visit FWRI/FWC for updates:

<http://myfwc.com/research/redtide/events/status/>



GOM HAB Bulletin SW FL
Date: April 5, 2012
NOAA Ocean Service, Satellite and Information Service, NWS



If your agency has field sampling data, which can be used to help validate the MERIS imagery, Contact Becky Lazensky at: 352-955-1900

MERIS Satellite Images display a cyanobacteria index generated with a Medium Resolution Imaging Spectrometer satellite provided by the European Space Agency & NOAA.

- Very low likelihood of a bloom
- May indicate clouds or missing data
- Low estimated cyanobacteria concentrations
- Medium estimated cyanobacteria concentrations
- Probable bloom or higher est. cyano. concentrations

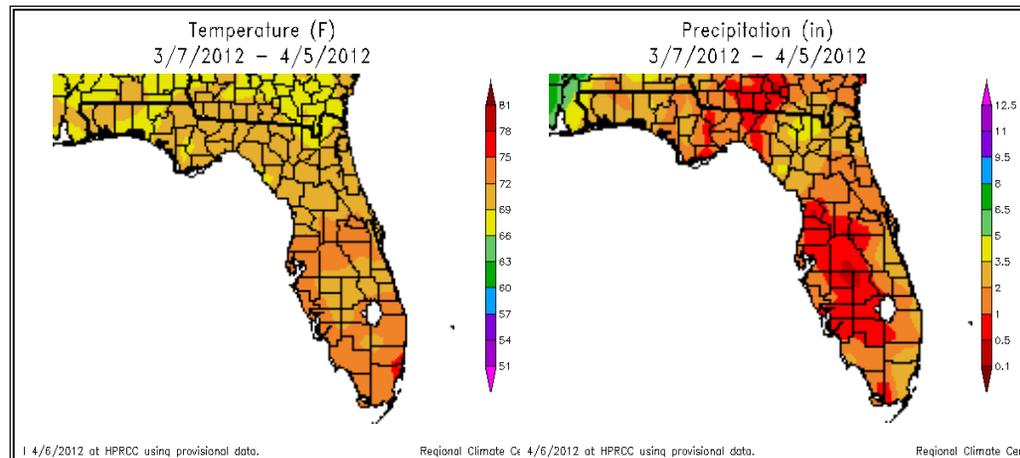
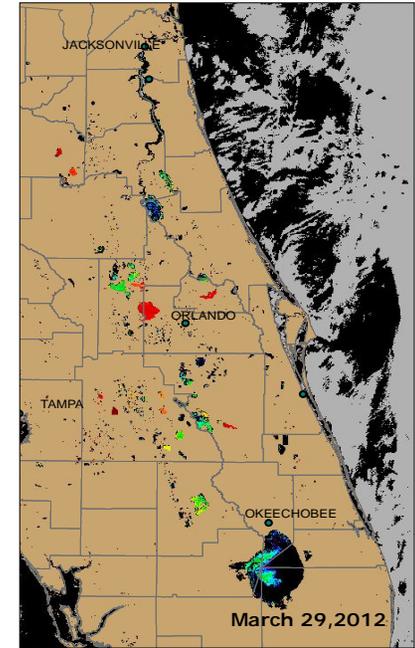
Interpreting Medium Resolution Imaging Spectrometer Satellite Imagery

- The medium resolution imaging spectrometer (MERIS) is located on the Envisat satellite deployed by the European Space Agency.
- The cyanobacterial index algorithm is designed to identify high biomass algal blooms caused by cyanobacteria. However, the current algorithm tends to have false positives, so other blooms may be "flagged". NOAA is currently testing new algorithms that are more specific to cyanobacteria.
- Data can be used to estimate near surface cyanobacteria concentrations which are an indication that algal blooms may be present.
- The algorithms used to generate the satellite images can vary, resulting in some models having a higher likelihood of detecting surface blooms. The satellite identifies the biomass near the surface (in the upper few feet of water). As a result, it may underestimate the total biomass for blooms that are mixed or dispersed through the water column. Turbidity does not otherwise influence the algorithms.
- The satellite imagery does not display the species of algae present.
- While patches of red or warm colors may indicate a bloom, these data have not been verified in most cases using ground-truth methods. Data collected by the satellite is considered experimental.
- Only part of FL is in the satellite's coverage area.
- Several environmental factors may affect how results can be interpreted. For example, areas with abundant aquatic vegetation may present with a high cyanobacteria index on the color spectrum, resulting in a false positive bloom reading.

Weather Conditions: March 7-April 5 Temperature and Precipitation



- Weather conditions can impact the duration and location of blooms and the satellite imagery shown in this report may no longer be relevant. Images represent the last image taken with a realization that blooms may have moved, dissipated or intensified.
- Cloud coverage can obscure imagery and create patches or gray areas on map and obscure bloom detection.



To review HABs satellite reports in the Gulf of Mexico and marine waters visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive at: <http://tidesandcurrents.noaa.gov/hab/bulletins.html>



For Individual Weather Station Data Visit:
http://www.sercc.com/climateinfo/historical/historical_fl.html

Questions about the report or suggestions: You can contact Becky Lazensky, MPH
352-955-1900
Becky_Lazensky@doh.state.fl.us