



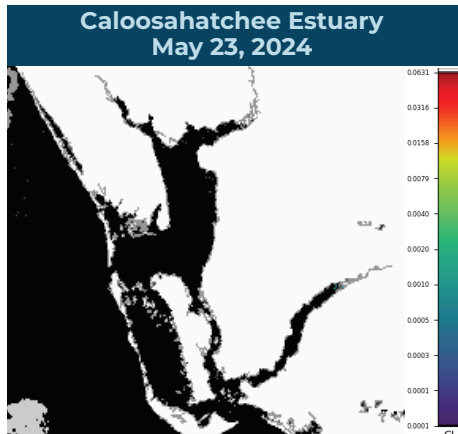
BLUE-GREEN ALGAL BLOOM WEEKLY UPDATE

REPORTING MAY 17 - MAY 23, 2024

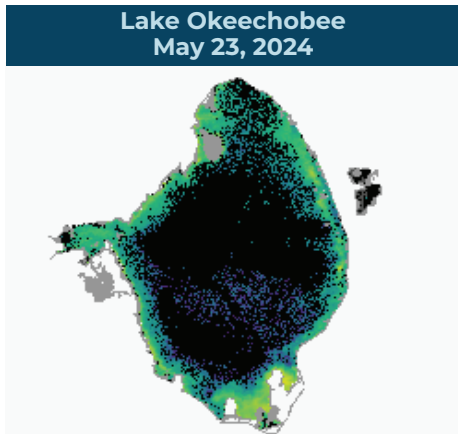
Satellite imagery provided by NOAA - Images are impacted by cloud cover.

A value of 0.004 is nominally equivalent to approximately 20-30 ug/L chlorophyll a of cyanobacteria, and 0.06 would be in the 300-500 ug/L chlorophyll a range.

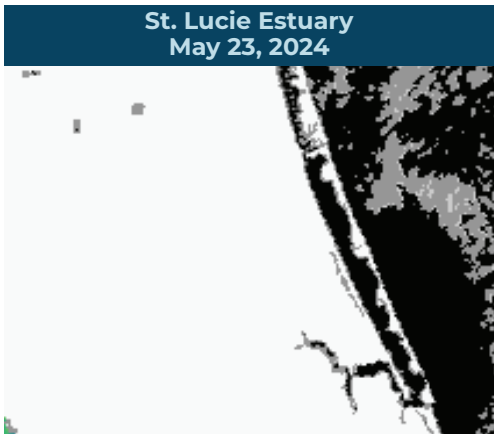
Please keep in mind that bloom potential is subject to change due to rapidly changing environmental conditions or satellite inconsistencies (i.e., wind, rain, temperature or stage).



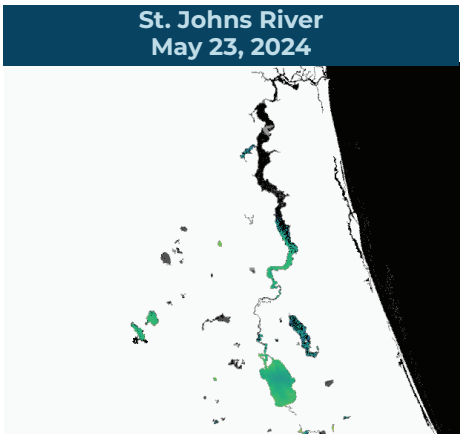
The satellite imagery for the Caloosahatchee Estuary from 5/23 shows no bloom potential in the estuary and scattered low bloom potential in the upper river to the east of I-75.



The satellite imagery for Lake Okeechobee from 5/23 shows moderate bloom potential on approximately 20% of the lake, along all shorelines.



The satellite imagery for the St. Lucie Estuary from 5/23 is partially obscured by cloud cover and shows no visible bloom potential.



The satellite imagery for the St. Johns River from 5/23 shows moderate bloom potential from Lake George downstream to south of Green Cove Springs, and also in Doctors Lake.

SUMMARY

Following the severe weather that impacted North Florida, the Florida Department of Environmental Protection's (DEP) Laboratory lost power for a prolonged duration. Power has been restored, and normal operations at the DEP Laboratory have resumed for harmful algal bloom (HAB) response.

There were 70 reported site visits in the past seven days with 70 samples collected. Algal bloom conditions were observed by samplers at 34 of the sites.

On 5/22 - 5/23, DEP staff collected 27 HAB response samples. Dominant algal taxa and cyanotoxin results follow each waterbody name.

Lake Okeechobee - S308C (lakeside): *Microcystis aeruginosa*; trace level (0.50 parts per billion [ppb]) microcystins detected.

C44 canal - S308C (canal side): *Microcystis aeruginosa*; 2.5 ppb microcystins detected.

Lake Breckenridge - South Lobe: No dominant algal taxon; no cyanotoxins detected.

St. Lucie Canal - 96th Street Bridge: No dominant algal taxon; no cyanotoxins detected.

Lake Thonotosassa - Center: *Microcystis aeruginosa*; trace level (0.48 ppb) microcystins detected.

St. Lucie River - at Four Rivers: No dominant algal taxon; no cyanotoxins detected.

St. Lucie River - at Palm City Bridge: No dominant algal taxon; no cyanotoxins detected.

Curve Lake - Southeast: *Microcystis aeruginosa* and *Raphidiopsis acuminato-crispa* (formerly *Cylindrospermopsis acuminato-crispa*) co-dominant; no cyanotoxins detected.

Results are pending for **Lake Gibson - West, St. Lucie Canal - Army Corps Campground, Caloosahatchee River - Caloosahatchee Drive Canal, Lake Van, Scott Lake - West, C-17 Canal - Congress Avenue, Lake Conine - Boat Ramp, Lake Hancock - South Central, Cypress Lake - West Lobe, Lake Minnehaha - East Dock, Lake Pearl - Park Dock, Caloosahatchee River - Little Canal, St. Lucie River - Harborage, Caloosahatchee River - Meade Canal, Lake Howell - Northwest Shore, Lake Arnold - North Shore, Hancock Creek - Seaside Key Court Canal, Lake Ellen - South Shore and Lorraine Lake - West Shore.**

On 5/20 - 5/22, South Florida Water Management District staff collected five HAB response samples and 30 **Lake Okeechobee** routine HAB monitoring samples (FEBOUT, FEBIN, KISSR0.0, LZZ, NES191, L001, NES135, NCENTER, EASTSHORE, L004, L008, L005, POLESOUT3, POLESOUT2, POLESOUT1, POLESOUT, KBARSE, CLV10A, LZ40, L006, PALMOUT3, PALMOUT2, PALMOUT1, PALMOUT, LZ30, POLE3S, RITTAE2, LZZ5A, L007 and PELBAY3). Dominant algal taxa and cyanotoxin results follow each waterbody name.

C44 canal - C44S80 (upstream): No dominant algal taxon; no cyanotoxins detected.

C43 canal - S77 (upstream): *Microcystis aeruginosa*; no cyanotoxins detected.

C43 Canal - S78 (upstream): No dominant algal taxon; no cyanotoxins detected.

C43 Canal - S79 (upstream): *Microcystis aeruginosa*; no cyanotoxins detected.

Lake Okeechobee - Pahokee Marina: *Microcystis aeruginosa*; 6.8 ppb microcystins detected.

Lake Okeechobee - FEBOUT: *Microcystis aeruginosa*; no cyanotoxins detected.

Lake Okeechobee - FEBIN: *Dolichospermum circinale*; no cyanotoxins detected.

Lake Okeechobee - KISSR0.0: No dominant algal taxon; no cyanotoxins detected.

Lake Okeechobee - LZZ: *Microcystis aeruginosa*; no cyanotoxins detected.

Lake Okeechobee - NES191: *Microcystis aeruginosa*; trace level (0.28 ppb) microcystins detected.

Lake Okeechobee - L001: *Microcystis aeruginosa*; no cyanotoxins detected.

Lake Okeechobee - NES135: *Microcystis aeruginosa*; trace level (0.75 ppb) microcystins detected.

Lake Okeechobee - NCENTER: *Microcystis aeruginosa*; trace level (0.30 ppb) microcystins detected.

Lake Okeechobee - EASTSHORE: *Microcystis aeruginosa*; 3.0 ppb microcystins detected.

Lake Okeechobee - L004: No dominant algal taxon; no cyanotoxins detected.

Lake Okeechobee - L008: *Microcystis aeruginosa*; no cyanotoxins detected.

Lake Okeechobee - L005: *Microcystis aeruginosa*; 2.3 ppb microcystins detected.

Lake Okeechobee - POLESOUT3: *Microcystis aeruginosa*; no cyanotoxins detected.

Lake Okeechobee - POLESOUT2: *Microcystis aeruginosa*; no cyanotoxins detected.

Lake Okeechobee - POLESOUT1: *Microcystis aeruginosa*; no cyanotoxins detected.

Lake Okeechobee - POLESOUT: *Microcystis aeruginosa*; no cyanotoxins detected.

Lake Okeechobee - KBARSE: *Microcystis aeruginosa*; trace level (0.64 ppb) microcystins detected.

Lake Okeechobee - CLV10A: *Microcystis aeruginosa*; trace level (0.82 ppb) microcystins detected.

Lake Okeechobee - LZ40: No dominant algal taxon; trace level (0.29 ppb) microcystins detected.

Lake Okeechobee - L006: *Microcystis aeruginosa*; no cyanotoxins detected.

Lake Okeechobee - PALMOUT3: *Microcystis aeruginosa*; no cyanotoxins detected.

Lake Okeechobee - PALMOUT2: *Microcystis aeruginosa*; no cyanotoxins detected.

Lake Okeechobee - PALMOUT1: *Microcystis aeruginosa*; trace level (0.13 ppb) microcystins detected.

Lake Okeechobee - PALMOUT: *Microcystis aeruginosa* and *Dolichospermum circinale* co-dominant; no cyanotoxins detected.

Lake Okeechobee - LZ30: *Dolichospermum circinale*; no cyanotoxins detected.

Lake Okeechobee - POLE3S: *Microcystis aeruginosa*; 2.7 ppb microcystins detected.

Lake Okeechobee - RITTAE2: *Microcystis aeruginosa*; trace level (0.56 ppb) microcystins detected.

Lake Okeechobee - LZZ5A: *Microcystis aeruginosa* and *Dolichospermum circinale* co-dominant; trace level (0.48 ppb) microcystins detected.

Lake Okeechobee - L007: *Microcystis aeruginosa*; trace level (0.31 ppb) microcystins detected.

Lake Okeechobee - PELBAY3: *Microcystis aeruginosa*; trace level (0.79 ppb) microcystins detected.

On 5/21 - 5/23, St. Johns River Water Management District (SJRWMD) staff collected two HAB response samples and six routine HAB monitoring samples. Dominant algal taxa and cyanotoxin results follow each waterbody name.

Lake Weir - Carney Island Boat Ramp: *Botryococcus braunii*; no cyanotoxins detected.

Crescent Lake - Downtown Crescent City Boat Ramp: *Microcystis aeruginosa*; trace level (0.91 ppb) microcystins detected.

St. Johns River - Mandarin Point: No dominant algal taxon; no cyanotoxins detected.

Doctors Lake - Center (DTL): No dominant algal taxon; no cyanotoxins detected.

St. Johns River - Shands Bridge: *Microcystis aeruginosa*; no cyanotoxins detected.

Crescent Lake - Mouth of Dunns Creek: No dominant algal taxon; no cyanotoxins detected.

Lake George - Center: No dominant algal taxon; no cyanotoxins detected.

Lake Washington - Center (LWC): Results pending.

Last Week

On 5/16, SJRWMD staff collected five HAB response samples. Dominant algal taxa and cyanotoxin results follow each waterbody name.

Lake Dorr - Northeast of Center: No dominant algal taxon; no cyanotoxins detected. Cyanotoxin result is qualified for preservation being out of temperature and being received beyond normal holding time due to the recent storm.

Blue Cypress Lake - Center: No dominant algal taxon; no cyanotoxins detected. Cyanotoxin result is qualified for being received beyond normal holding time due to the recent storm.

Stick Marsh - North: No dominant algal taxon; no cyanotoxins detected. Cyanotoxin result is qualified for being received beyond normal holding time due to the recent storm.

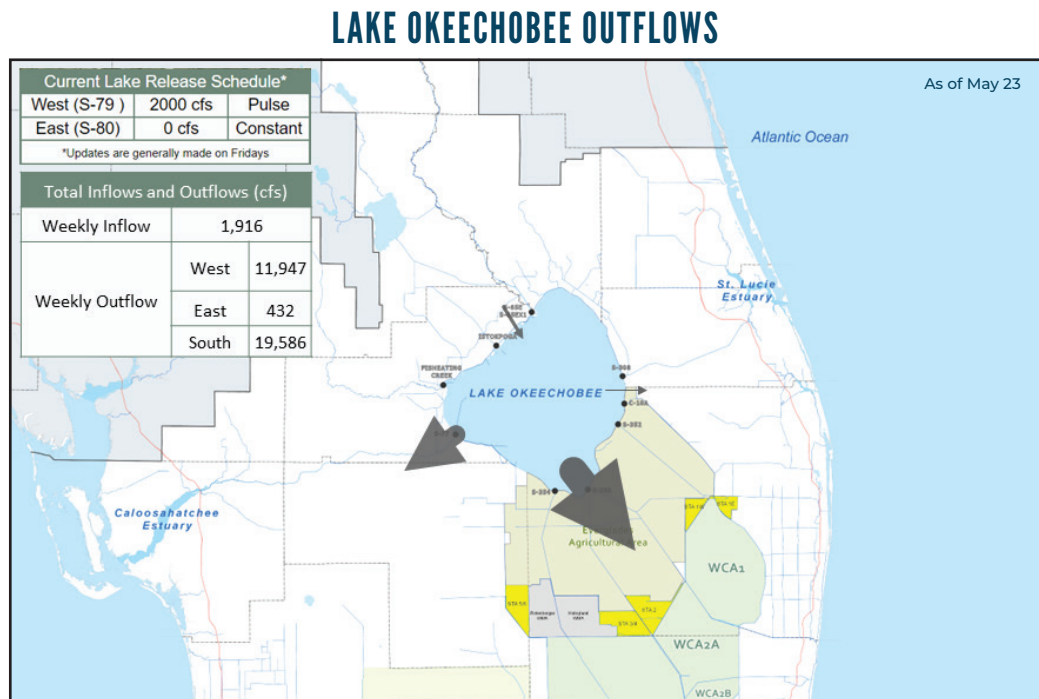
Lake Monroe - Center: No dominant algal taxon; trace level (0.15 ppb) cylindrospermopsin detected. Cyanotoxin result is qualified for being received beyond normal holding time due to the recent storm.

Lake Jesup - Center: *Raphidiopsis raciborskii* (formerly *Cylindrospermopsis raciborskii*); no cyanotoxins detected. Cyanotoxin result is qualified for being received beyond normal holding time due to the recent storm.

Results for completed analyses are available at FloridaDEP.gov/AlgalBloom.

This is a high-level summary of the sampling events for the reported week. For all field visit and analytical result details, please refer to the complete algal bloom map with data table by clicking the "Field and Lab Details" Quick Link from the Algal Bloom Dashboard. Different types of blue-green algal bloom species can look different and have different impacts. However, regardless of species, many types of blue-green algae can produce toxins that can make you or your pets sick if swallowed or possibly cause skin and/or eye irritation due to contact. We advise staying out of water where algae is visibly present as specks or mats or where water is discolored pea-green, blue-green or brownish-red. Additionally, pets or livestock should not come into contact with algal bloom-impacted water or with algal bloom material or fish on the shoreline.

LAKE OKEECHOBEE OUTFLOWS



SITE VISITS FOR BLUE-GREEN ALGAE



SIGN-UP FOR UPDATES

To receive personalized email notifications about blue-green algae and red tide, visit ProtectingFloridaTogether.gov.

REPORT PUBLIC HEALTH ISSUES

HUMAN ILLNESS
Florida Poison Control Centers can be reached 24/7 at 800-222-1222. (DOH provides grant funding to the Florida Poison Control Centers)

OTHER PUBLIC HEALTH CONCERNS
CONTACT DOH (DOH county office) FloridaHealth.gov/all-county-locations.html

REPORT ALGAL BLOOMS

SALTWATER BLOOM

- Observe stranded wildlife or a fish kill.
- Information about red tide and other saltwater algal blooms.

CONTACT FWC
800-636-0511 (fish kills)
888-404-3922 (wildlife Alert)
MyFWC.com/RedTide

FRESHWATER BLOOM

- Observe an algal bloom in a lake or freshwater river.
- Information about blue-green algal blooms.

CONTACT DEP
855-305-3903 (to report freshwater blooms)
FloridaDEP.gov/AlgalBloom