



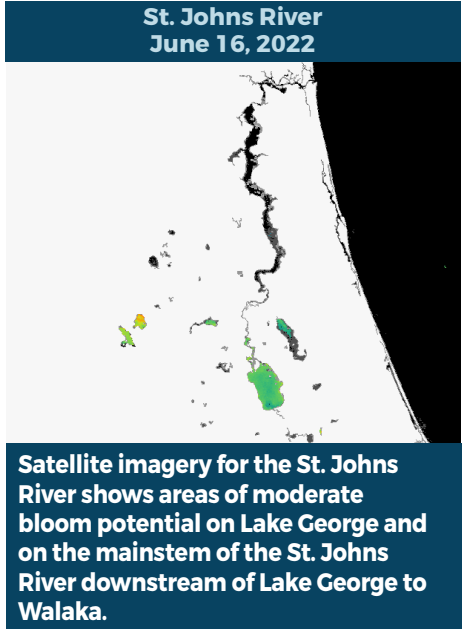
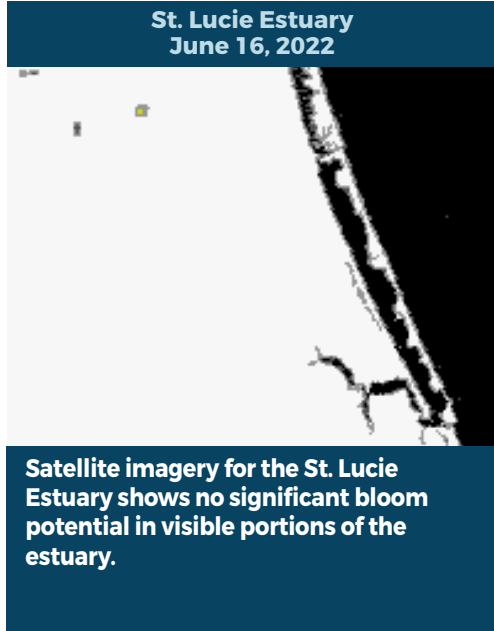
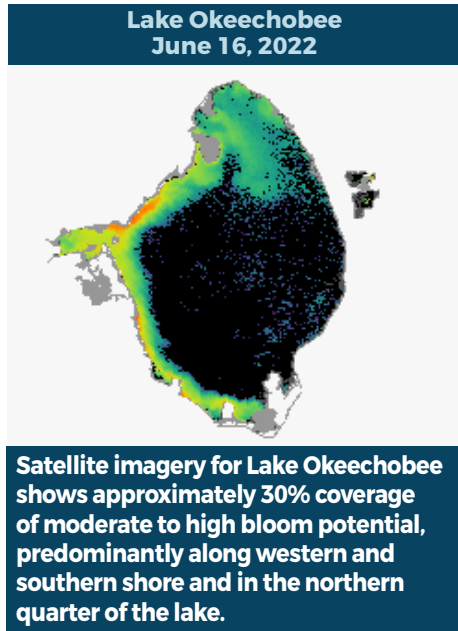
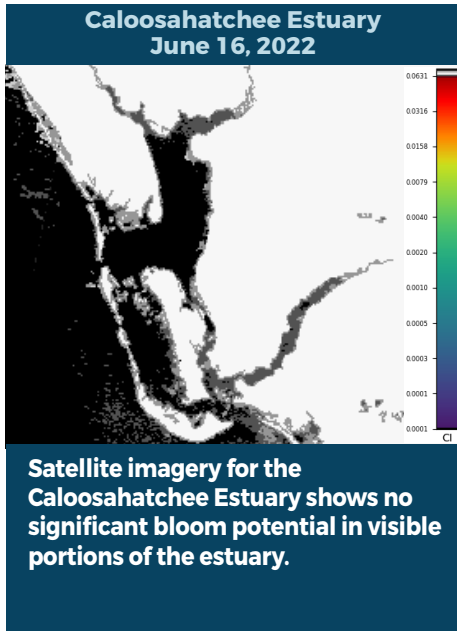
BLUE-GREEN ALGAL BLOOM WEEKLY UPDATE

REPORTING JUNE 10 - 16, 2022

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).



SUMMARY

There were 48 reported site visits in the past seven days, with 47 samples collected. Algal bloom conditions were observed by samplers at 24 sites.

On 6/13 - 6/15, Florida Department of Environmental Protection (DEP) staff visited Lake Sue (two locations), Lake Ivanhoe, Lake Mann, Harbor Isle Lake (three locations), Pasadena Lake, Lake Hancock, Lake Munson (two locations), Lake Marian, Caloosahatchee River - Moody Canal, Lake Disston, Lake Blanche, Lochloosa Lake (three locations), Lake Monroe, Lake Hamilton, Biscayne Canal - NE 107th St., Lake Crago, Lake Dot, C100 Canal - Coral Reef Park, Lake Griffin (Seminole County), Lake Kathryn and Lake Buffum. The Lake Sue samples were dominated by *Microcystis aeruginosa* and *Cylindrospermopsis raciborskii* and had trace levels (0.26 parts per billion [ppb] and 0.42 ppb) of microcystins detected. The Lake Ivanhoe, Lake Mann and Lake Hancock samples had no dominant algal taxon and had trace levels (0.52 ppb, 0.28 ppb and 0.91 ppb, respectively) of microcystins detected. The Lake Munson phytoplankton samples were dominated by *Scytonema crispum* and *Oedogonium sp.* and had trace levels (0.42 to 0.49 ppb) of microcystins detected. The Lake Marian sample had no dominant algal taxon and had 3.6 ppb of microcystins detected. All three Harbor Isle Lake samples had no dominant algal taxon and had trace levels (0.32 to 0.70 ppb) of microcystins detected. The Pasadena Lake sample was dominated by *Microcystis wesenbergii* and had a trace level (0.38 ppb) of microcystin detected. The Caloosahatchee River - Moody Canal sample was dominated by the filamentous green alga, *Spirogyra sp.* and had no cyanotoxins detected. The Lake Disston sample was dominated by *Microcystis aeruginosa* and had a trace level (0.41 ppb) of microcystins detected. No sample was collected at Lake Blanche where no algal bloom was observed. Two of the Lochloosa Lake sample were co-dominated by *Microcystis aeruginosa* and *Dolichospermum circinale* and the third was dominated by *Microcystis aeruginosa* and *Microcystis wesenbergii*. The three Lochloosa Lake samples had microcystin concentrations ranging between 1.3 ppb to 2.8 ppb. The Lake Monroe sample was dominated by *Microcystis aeruginosa* and *Dolichospermum circinale* and had no cyanotoxins detected. The Lake Hamilton, Biscayne Canal - NE 107th St., Lake Crago, Lake Dot, C100 Canal - Coral Reef Park, Lake Griffin (Seminole County), Lake Kathryn and Lake Buffum analysis results are still pending.

On 6/13, St. Johns River Water Management District (SJRWMD) staff collected samples at Crescent Lake (three locations), Stickmarsh-North, Lake George (two locations), Blue Cypress Lake, St. Johns River - Racy Point, St. Johns River - Shands Bridge, Doctors Lake, St. Johns River - Mandarin Point and Doctors Lake. Two of the Crescent Lake samples were dominated by *Microcystis aeruginosa* and only one had a trace level (0.26 ppb) of microcystins detected. The Stickmarsh-North sample had no dominant algal taxon and no cyanotoxins detected. The Lake George samples were dominated by *Cylindrospermopsis raciborskii* and *Pseudanabaena limnetica* and had non-detect to trace levels microcystins (0.31 ppb) and trace levels (0.21 to 0.22 ppb) of cylindrospermopsin detected. The Blue Cypress Lake sample had no dominant algal taxon and a trace level (0.27 ppb) of microcystins detected. The St. Johns River - Racy Point sample was dominated by *Aphanizomenon flos-aquae* and had no cyanotoxins detected. The St. Johns River - Shands Bridge sample was dominated by *Cylindrospermopsis raciborskii* and had a trace level (0.26 ppb) of microcystins detected. The St. Johns River - Mandarin Point and Doctors Lake samples had no dominant algal taxon and had trace levels (0.25 ppb and 0.53 ppb, respectively) of microcystins detected.

On 6/13, Lee County staff collected a sample at Caloosahatchee River - Alva Boat Ramp and Caloosahatchee River - North Shore Park. The Caloosahatchee River - Alva Boat Ramp sample had no dominant algal taxon and no cyanotoxins detected. The Caloosahatchee River - North Shore Park sample was dominated by *Microcystis aeruginosa* and had a trace level (0.77 ppb) of microcystins detected.

On 6/13 - 6/14, South Florida Water Management District staff collected samples from C43 Canal - S77 Structure (upstream), Lake Okeechobee - S308C Structure (lakeside), C44 Canal - S308C Structure (canal side), C43 Canal - S79 Structure (upstream) and C51 Canal - S155 Structure (upstream). The C43 Canal - S77 Structure (upstream), Canal - S308C Structure (canal side) and C43 Canal - S79 Structure (upstream) samples had no dominant algal taxon and no cyanotoxins detected. The Lake Okeechobee - S308C Structure (lakeside) and C51 Canal - S155 Structure (upstream) samples were dominated by *Microcystis aeruginosa* and had trace levels (0.88 ppb and 0.33 ppb, respectively) of microcystins detected.

On 6/15, Alachua County staff collected samples at Lake Wauberg and Bivens Lake. Neither sample had a dominant algal taxon and had trace levels (0.60 ppb and 3.3 ppb) of microcystins detected, respectively.

Last Week

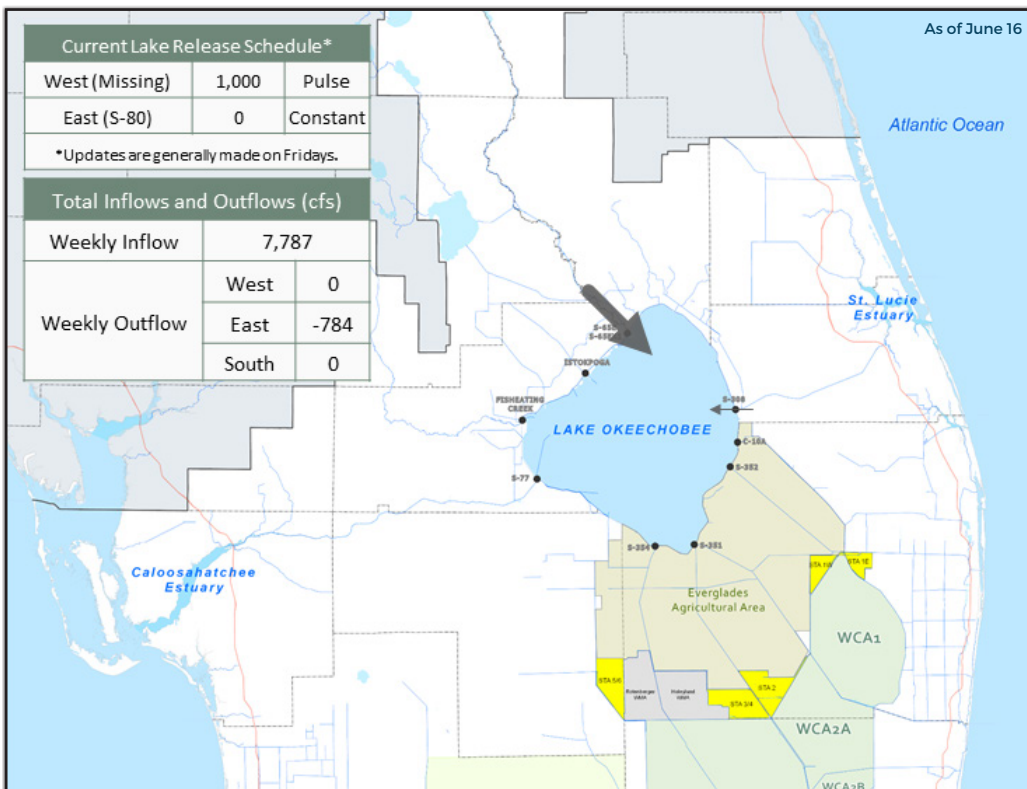
On 6/9, SJRWMD staff collected samples at Lake Monroe - Volusia Boat Ramp, Lake Monroe - Center and Lake Jesup - Center. The Lake Monroe - Volusia Boat Ramp sample was co-dominated by *Microcystis aeruginosa* and *Dolichospermum circinale* and the Lake Monroe - Center samples had no dominant algal taxon. Both samples had trace levels (0.32 ppb and 0.26 ppb, respectively) of microcystins detected. The Lake Jesup - Center sample had no dominant algal taxon and no cyanotoxins detected.

On 6/9, DEP staff collected samples at St. Johns River - 2930 SR 13; Swimming Pen Creek - Whitey's Fish Camp; Doctors Lake - end of Lawrence Rd.; Lake Griffin - South Lobe and Lake Harris - South of Monkey Island. The St. Johns River - 2930 SR 13 sample was dominated by *Cylindrospermopsis raciborskii* and had a trace level (0.26 ppb) of microcystins detected. The Swimming Pen Creek - Whitey's Fish Camp sample had no dominant algal taxon and had a trace level (0.39 ppb) of microcystins detected. The Doctors Lake - end of Lawrence Rd. sample was dominated by *Microcystis aeruginosa* and had no cyanotoxins detected. The Lake Griffin - South Lobe sample had no dominant algal taxon and a trace level (0.29 ppb) of microcystins detected. The Lake Harris - South of Monkey Island sample was dominated by *Microcystis aeruginosa* and had a trace level (0.32 ppb) of microcystins detected.

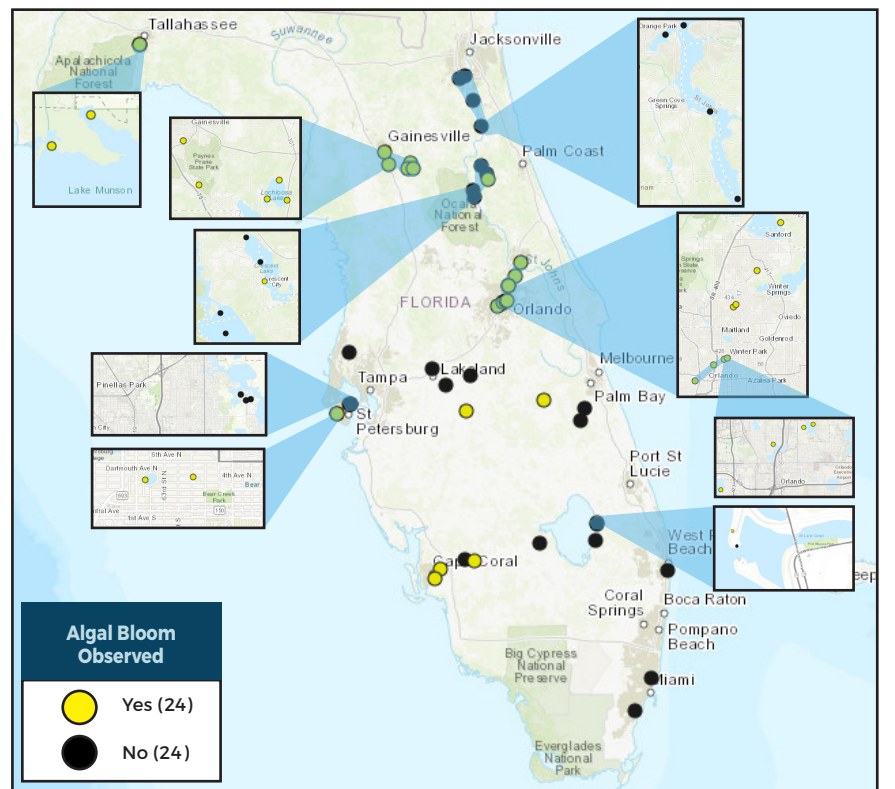
Results for completed analyses are available and posted at FloridaDEP.gov/AlgalBloom.

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

PROTECTING TOGETHER

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



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

