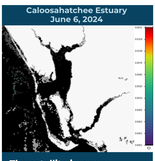
BLUE-GREEN ALGAL BLOOM WEEKLY UPDATE

REPORTING MAY 31 - JUNE 6, 2024

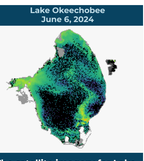
Satellite imagery provided by NOAA - Images are impacted by cloud cover.
A value of 0.004 is nominally equivalent to approximately 20-30 ug/L chlorophyll a of cyanobacteria, and 0.06 would be in the 300-500 ug/L chlorophyll a range.
Please keep in mind that bloom potential is subject to change due to rapidly changing environmental conditions or satellite inconsistencies (i.e., wind, rain, temperature or stage).

Caloosahatchee Estuary June 6, 2024



The satellite imagery for the Caloosahatchee Estuary from 6/6 is partially obscured by cloud cover and shows no bloom potential in visible portions of the river or estuary.

Lake Okeechobee June 6, 2024



The satellite imagery for Lake Okeechobee from 6/6 shows low to high bloom potential on approximately 75% of the lake, with the highest bloom potential in the southeast quadrant of the lake near Pahokee Marina.

St. Lucie Estuary June 6, 2024

The satellite imagery for the St. Lucie Estuary from 6/6 is partially obscured by cloud cover and shows no bloom potential in visible parts of the river or estuary.

St. Johns River June 6, 2024

The satellite imagery for the St. Johns River from 6/6 is partially obscured by cloud cover and shows low to moderate bloom potential from Lake George downstream to Doctors Lake.

SUMMARY

There were 51 reported site visits in the past seven days with 51 samples collected. Algal bloom conditions were observed by samplers at 20 of the sites.

On 6/3 – 6/6, Florida Department of Environmental Protection (DEP) staff collected 13 Harmful Algal Bloom (HAB) response samples. Dominant algal taxa and cyanotoxin results follow each waterbody name.

Lake Dorr - SW Shore: Algal mat dominated by *Oedogonium* sp.; phytoplankton had no dominant algal taxon; no cyanotoxins detected.

Lullwater Lake - Center: *Scytonema crispum* and *Oedogonium* sp. co-dominant in periphyton sample; no cyanotoxins detected.

Lullwater Lake - NE Lobe at dock: No dominant algal taxon in phytoplankton sample; no cyanotoxins detected.

Lake Rowena - W Shore: *Microcystis aeruginosa* and *Microcystis wesenbergii* co-dominant; trace level [0.16 parts per billion (ppb)] of microcystins detected.

Lake Conine - at Lucerne Park Rd Boat Ramp: *Microcystis aeruginosa* and *Microcystis wesenbergii* co-dominant; trace level (0.14 ppb) of microcystins detected.

Peace River - Ft Meade: *Microcystis aeruginosa* and *Microcystis wesenbergii* co-dominant; no cyanotoxins detected.

Lake Toho - Marina dock: *Microcystis aeruginosa* and *Microcystis wesenbergii* co-dominant; no cyanotoxins detected.

Lake Okeechobee - S308C (lakeside): No dominant algal taxon; no cyanotoxins detected.

Lake Fairview - S Lobe: *Microcystis aeruginosa* and *Dolichospermum circinale* co-dominant; no cyanotoxins detected.

Hidden River- Homosassa: Results pending.

Lake Santa Fe - SW Lobe: Results pending.

Lake Van: Results pending.

C-17 Canal - Congress Avenue: Results pending.

On 6/1 – 6/5, South Florida Water Management District (SFWMD) staff collected four HAB response samples, four routine monitoring samples at structures (**S77**, **S78**, **S79**, **S80**) and 28 **Lake Okeechobee** routine HAB monitoring samples (**KISSR0.0**, **LZ2**, **NES191**, **L001**, **NES135**, **NCENTER**, **EASTSHORE**, **L004**, **L008**, **L005**, **POLESOUT3**, **POLESOUT2**, **POLESOUT1**, **POLESOUT**, **KBARSE**, **CLV10A**, **LZ40**, **L006**, **PALMOUT3**, **PALMOUT2**, **PALMOUT1**, **PALMOUT**, **LZ30**, **POLE3S**, **RITTAE2**, **LZ25A**, **L007** and **PELBAY3**). Dominant algal taxa and cyanotoxin results follow each waterbody name.

L8 Canal – CULV10A; *Microcystis aeruginosa*; no cyanotoxins detected.

Lake Okeechobee – S352 Structure: *Microcystis aeruginosa* and *Dolichospermum circinale* co-dominant; no cyanotoxins detected.

Lake Okeechobee – S351 Structure: *Microcystis aeruginosa*; no cyanotoxins detected.

Pahokee Marina: *Microcystis aeruginosa*; trace level (0.39 ppb) of microcystins detected.

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

C43 Canal - S78 (upstream): *Microcystis aeruginosa*; no cyanotoxins detected.

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

C44 canal - S80 (upstream): No dominant algal taxon; no cyanotoxins detected.

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

LZ2: No dominant algal taxon; no cyanotoxins detected.

NES191: *Microcystis aeruginosa*; no cyanotoxins detected.

L001: *Microcystis aeruginosa*; no cyanotoxins detected.

NES135: *Microcystis aeruginosa*; no cyanotoxins detected.

NCENTER: No dominant algal taxon; trace level (0.42 ppb) of microcystins detected.

EASTSHORE: *Microcystis aeruginosa*; trace level (0.30 ppb) of microcystins detected.

L004: *Microcystis aeruginosa*; no cyanotoxins detected.

L008: *Microcystis aeruginosa*; 2.5 ppb of microcystins detected.

L005: *Dolichospermum circinale*; no cyanotoxins detected.

POLESOUT3: *Microcystis aeruginosa*; no cyanotoxins detected.

POLESOUT2: *Microcystis aeruginosa*; 5.9 ppb of microcystins detected.

POLESOUT1: No dominant algal taxon; no cyanotoxins detected.

POLESOUT: *Microcystis aeruginosa*; 7.3 ppb of microcystins detected.

KBARSE: *Microcystis aeruginosa*; 1.2 ppb of microcystins detected.

CLV10A: *Microcystis aeruginosa*; no cyanotoxins detected.

LZ40: no dominant algal taxon; no cyanotoxins detected.

L006: *Microcystis aeruginosa*; trace level (0.69 ppb) of microcystins detected.

PALMOUT3: *Microcystis aeruginosa*; no cyanotoxins detected.

PALMOUT2: *Microcystis aeruginosa*; no cyanotoxins detected.

PALMOUT1: *Dolichospermum circinale*; no cyanotoxins detected.

PALMOUT: *Dolichospermum circinale*; no cyanotoxins detected.

LZ30: *Microcystis aeruginosa*; 4.1 ppb of microcystins detected.

POLE3S: *Microcystis aeruginosa*; trace level (0.68 ppb) of microcystins detected.

RITTAE2: *Microcystis aeruginosa*; no cyanotoxins detected.

LZ25A: *Microcystis aeruginosa*; 2.1 ppb of microcystins detected.

L007: *Microcystis aeruginosa*; trace level (0.27 ppb) of microcystins detected.

PELBAY3: *Microcystis aeruginosa*; no cyanotoxins detected.

On 6/3 – 6/5, St. Johns River Water Management District staff collected two routine HAB monitoring samples. Dominant algal taxa and cyanotoxin results follow each waterbody name.

Lake Washington – Center: no dominant algal taxon; no cyanotoxins detected.

Harris Bayou – Center: no dominant algal taxon; no cyanotoxins detected.

Last Week

On 5/30, DEP staff collected two HAB response samples. Dominant algal taxa and cyanotoxin results follow each waterbody name.

C-17 Canal - Congress Avenue: *Microcystis aeruginosa*; no cyanotoxins detected.

Lake Yale – Near Center: *Microcystis aeruginosa*; no cyanotoxins detected.

On 5/30, SFWMD staff collected two HAB response samples. Dominant algal taxa and cyanotoxin results follow each waterbody name.

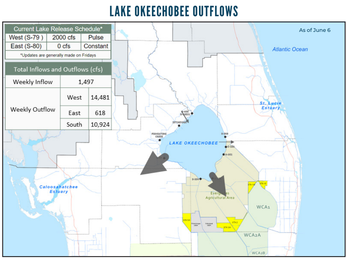
Lake Okeechobee – S352: *Microcystis aeruginosa*; 150 ppb of microcystins detected.

Lake Okeechobee – S351: *Microcystis aeruginosa* and *Planktolyngbya limnetica* co-dominant; 1.1 ppb of microcystins detected.

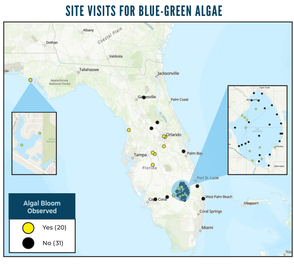
Results for completed analyses are available at FloridaDEP.gov/AlgalBloom.

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

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

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