

Survey Instrument for

bloomWatch & cyanoScope Cyanobacteria Monitoring Project

bloomWatch

The images below represent the data collection screens of the phone APP (revised Survey123-based APP) that will be utilized to collect important information on the location of potentially harmful cyanobacteria blooms, their size, prevailing weather and waterbody surface conditions, and if these waters are accessible to the public for recreational purposes.

1

bloomWatch

Expand for information about blooms and this app:

Username
Your username will be publicly displayed next to any submissions you make using this app.

Waterbody Name *

Date *

Select Location *

Waterbody Type *

Does waterbody have public access to any of the following?

2

bloomWatch

Does waterbody have public access to any of the following?
Select all that apply

Boating Swimming Fishing
Unsure

Weather conditions:
Select one

Surface conditions:
Select one

What is the bloom size or extent? *

3

bloomWatch

What is the bloom size or extent? *

Select one

Greater than a football field
Between a football field and tennis court
Between a tennis court and car
Less than a car
No bloom present

General comments:

Photo 1
Photograph the areal extent of the bloom (waterbody wide, along the shoreline, etc). If additional description is necessary, enter in box below.

Photo 1 example:

Photo 1 additional description:

Photo 2
Photograph the bloom from a standing position 10-30 feet away. If additional description is necessary, enter in box below.

Photo 2 example:

Photo 2 additional description:

Photo 3
Photograph a close up image of the bloom from < 3 feet away, or in a clear glass container at arm's length wearing waterproof gloves. If additional description is necessary, enter in box below.

Photo 3 example:

Photo 3 additional description:

Visit Cyanos.org for more information.

cyanoScope

These screenshots represent the image upload screens for microscopic images that are collected as a part of this program. Images will help determine if the bloom material are actually cyanobacteria that can be potentially toxic and the relative abundance and type of cyanobacteria present.

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cyanoScope

MAPPING CYANOBACTERIA ONE SLIDE AT A TIME

ADD
OBSERVATIONS



cyanoScope

Stats

Totals

3225

Observations »

178

Species »

213

People »

Most Observations



clark_county_public_health
472 observations



h2opurist
248 observations



lanabluege
198 observations



townofbarnstable
195 observations



willbmisled
185 observations

Most Species



kbeza31979
19 species



willbmisled
14 species



larryzsherman
11 species



skmayer
10 species



townofbarnstable
10 species

Most Observed Species



Microcystis aeruginosa
386 observations



Woronichinia naegeliana
183 observations



Dolichospermum lemmermannii
118 observations

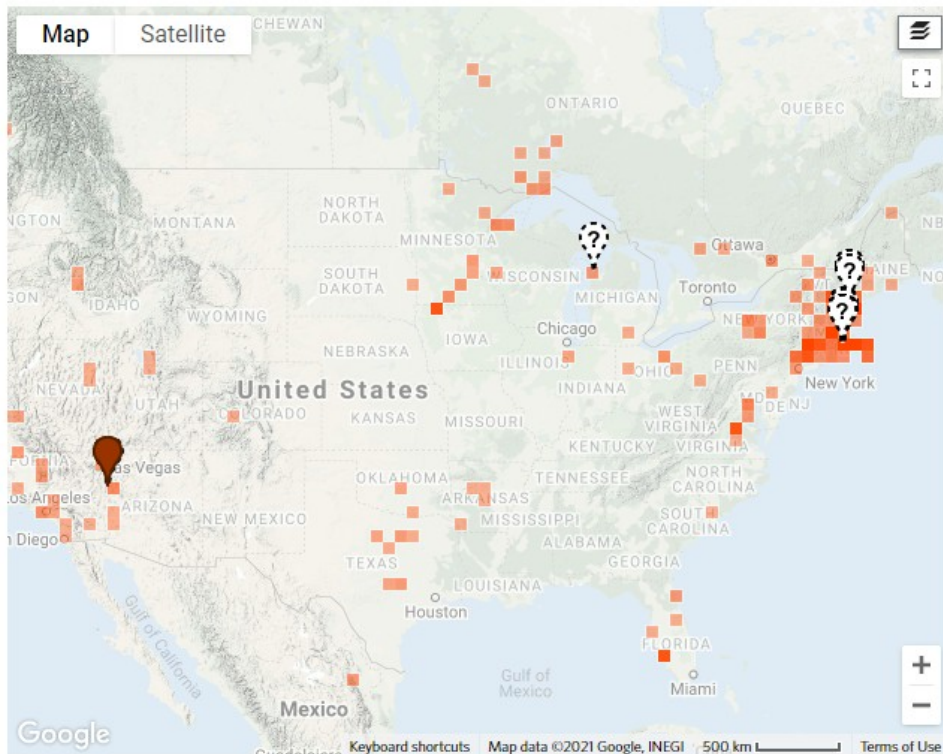


Aphanizomenon flosaquae
90 observations



Microcystis wessenbergii
27 observations

Step 1: cyanoScope images are uploaded by the user to the iNaturalist cyanoScope project page



Some Background on cyanoScope

Cyanobacteria are important members of the phytoplankton assemblages in lakes. In most situations these photosynthetic bacteria pose little risk to human health or the environmental integrity of lakes. However, when nitrogen and phosphorus concentrations are elevated and water temperatures warm, cyanobacteria can rapidly form dense and sometimes extensive blooms. Many species of cyanobacteria produce toxins that can cause symptoms in humans and other animals ranging from mild skin irritations and gastritis to debilitating illnesses and death. Given the current escalation in waterbody eutrophication and increases in temperatures due to global climate change, the frequency of cyanobacteria blooms is increasing. The public is beginning to become aware of these blooms through media accounts of lake closures, toxin exposures, and threats to drinking water intakes (e.g. cyanotoxins from Lake Erie in Toledo's drinking water supply in 2014). In addition to health concerns, blooms ...[more](#) ↓

Posted on February 04, 2016 02:22 PM by bcreakie | 0 comments | [Leave a comment](#)

» Members

184 members



[View All Members »](#)

» Your Membership

8 observations

» Add from Your Observations

[Download template for use in the bulk uploader](#)

» Export Observations

[Atom / CSV](#)

» Usage stats

Project Curator Tools

» Find Suitable Observations

» Find Unsuitable Observations

» Export with Hidden Coordinates

» Filter by Curator Identification

» Identify Observations

» New Journal Post

About

Valentines Day 2018

News: cyanoScope now has its own guide to the cyanobacteria. Please check it out: <https://www.inaturalist.org/guides/6092>

What is cyanoScope?

cyanoScope uses modern technologies and social media platforms to learn more about cyanobacteria.

By participating you will be helping ...[more](#) ↓

willbmisled created this project on September 22, 2015

Step 2: Microscopic images of cyanobacteria are georeferenced and placed on a location map

Unknown (Placeholder: Unknown Cyanobacteria) Needs ID

Follow



sharpthorn
82 observations

Observed:
Jun 7, 2021 - 10:30 AM EDT

Submitted:
Aug 24, 2021 - 10:06 PM EDT



Be the first to save this observation!

Notes

I can not identify these cells. They do look like cyanobacteria, possibly Nodularia.

Activity



Comment Suggest an Identification

B I

Preview

Leave a comment

Done

☐ Mark As Reviewed

Community Taxon

Compare • What's this?

The Community ID requires at least two identifications.

Annotations

Projects (1)

Add to a Project



cyanoScope
Observation Fields ▾

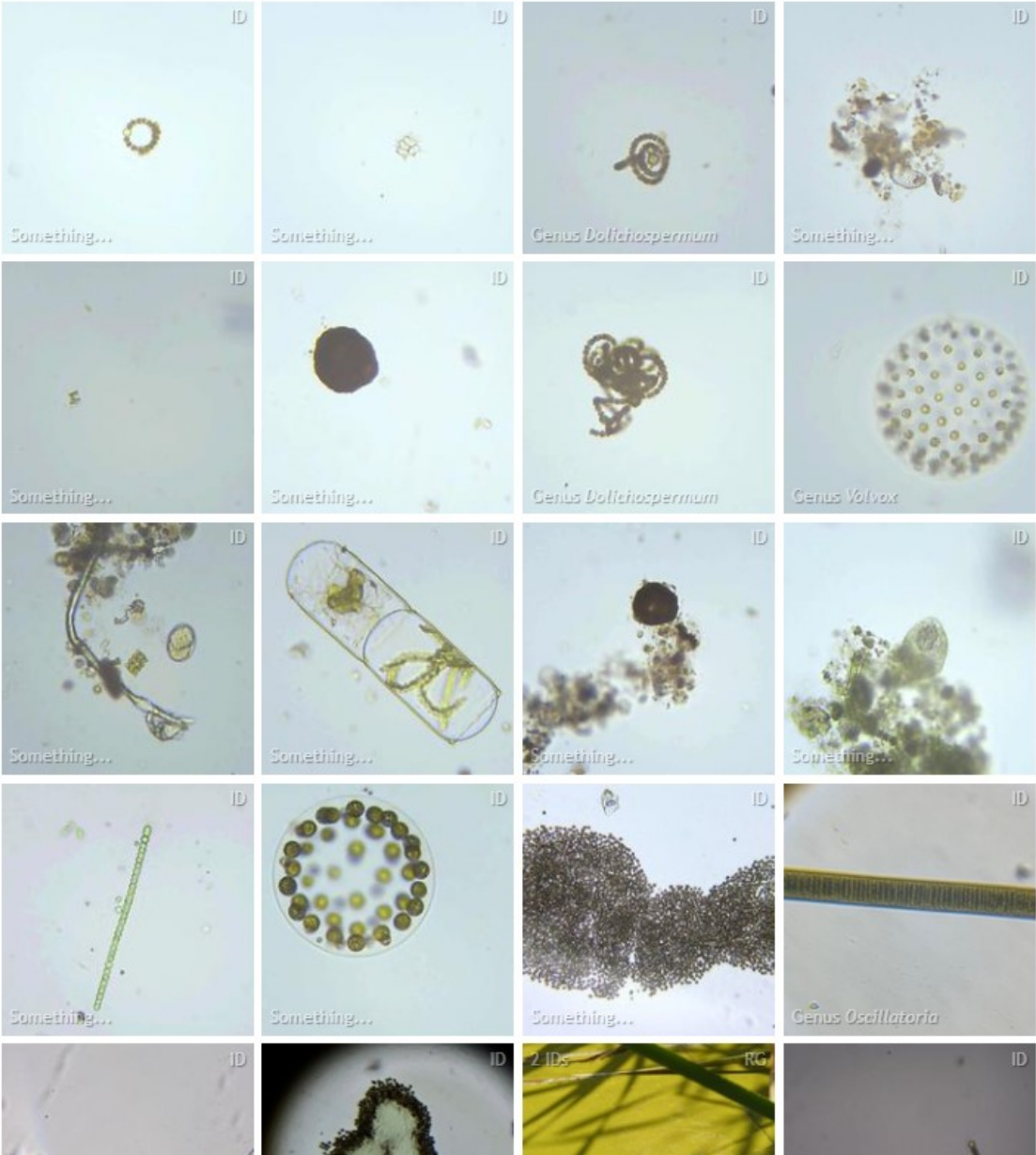
Observation Fields (5)

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Step 3: Microscopic images are taxonomically identified



Step 4: Confirmed images are added to a list of observations