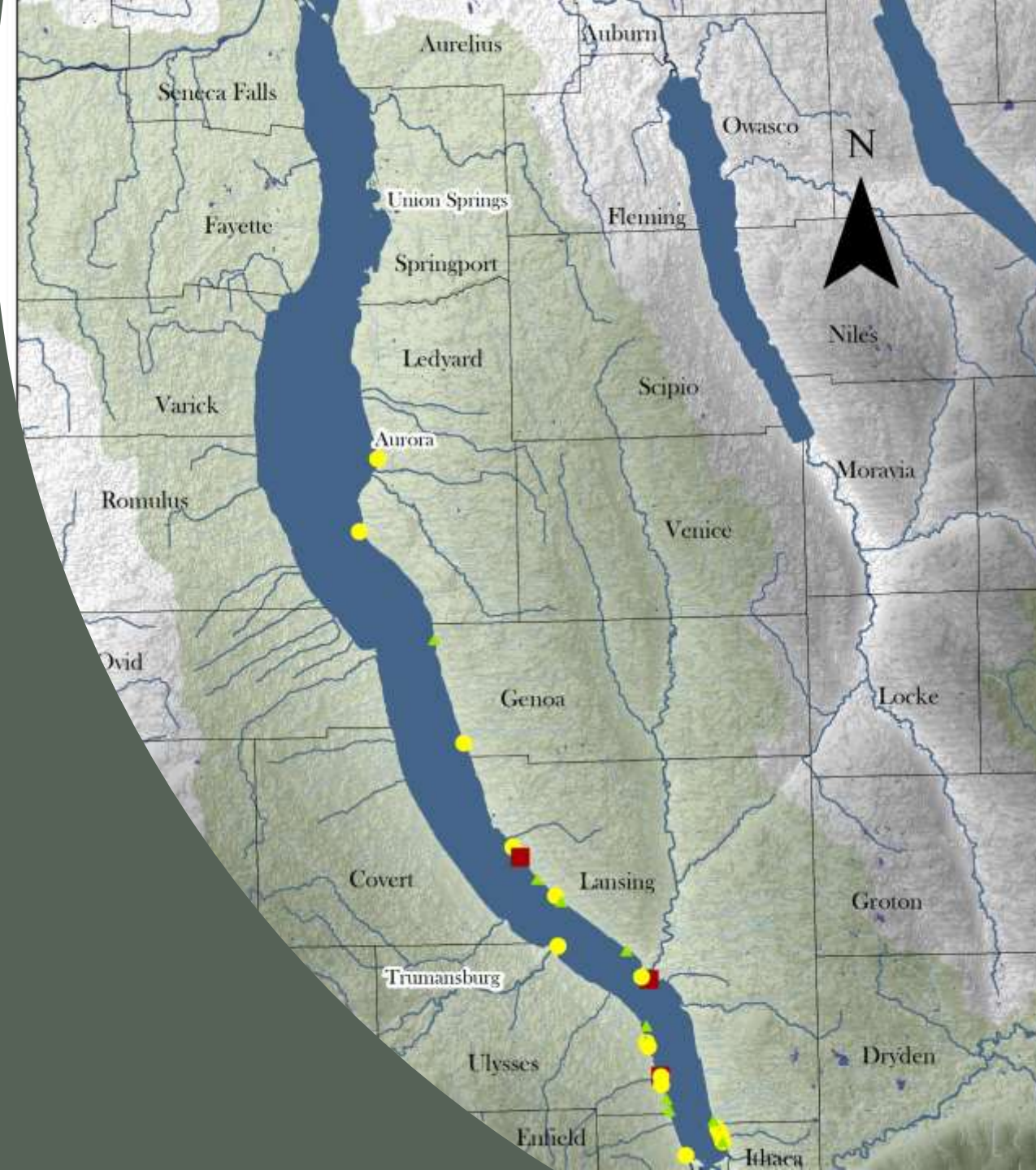


Cyanobacteria Blooms Reported through the Summer of 2017 in Cayuga Lake

- The following slideshow shows the progression, location, and status of cyanobacteria blooms across Cayuga Lake during the Summer of 2017. Blooms are given one of four classifications:
 - **Possible** - an unofficial category used to describe blooms that are reported to DEC but are reported with inadequate photo documentation.
 - **Suspicious** – bloom reports that can be verified by photos (reviewed by DEC and/or DOH matching the description of HABs), but without confirmatory sampling.
 - **Confirmed** – Preponderance of cyanobacteria taxa determined through microscopy and/or fluoroprobe analysis yielding phycocyanin levels greater than 25 micrograms per liter.
 - **Confirmed with High Toxins** – Microcystin toxin concentrations greater than 10 micrograms per liter (in open water) or greater than 20 micrograms per liter (near shore).



Reported Cyanobacteria Blooms July 24th



Legend

Bloom Icons

- ▲ Possible Bloom
- Suspicious Bloom
- Confirmed Bloom

Map Features

- Cayuga Lake Watershed



Notes: One suspicious bloom was reported at Taughannock State Park



Reported Cyanobacteria Blooms July 24th – July 25th

Legend

Bloom Icons

- ▲ Possible Bloom
- Suspicious Bloom
- Confirmed Bloom

Map Features

- Cayuga Lake Watershed



Notes: July 25th, a **second** suspicious bloom was reported at Taughannock State Park



Reported Cyanobacteria Blooms July 24th – July 26th

Legend

Bloom Icons

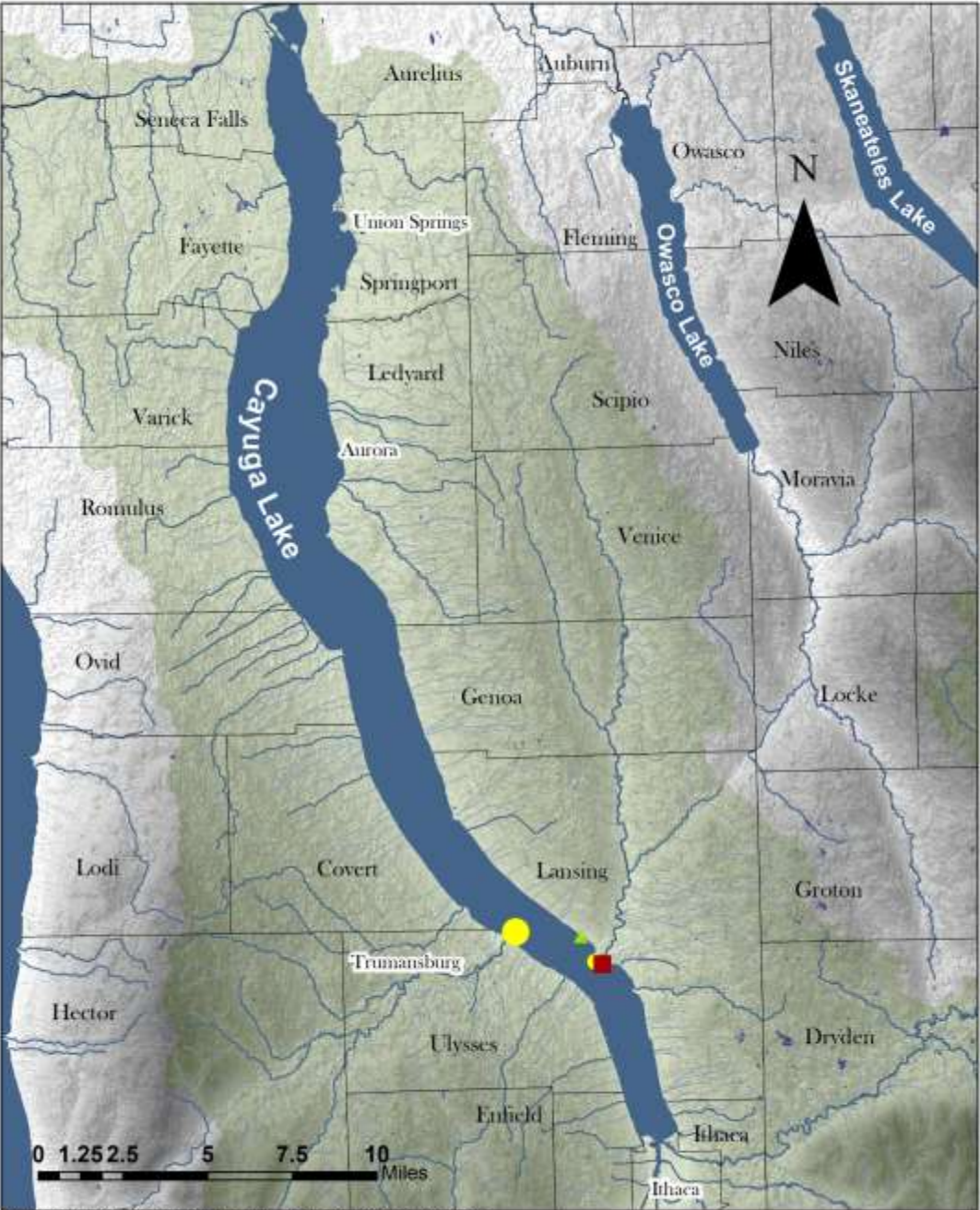
- ▲ Possible Bloom
- Suspicious Bloom
- Confirmed Bloom

Map Features

- Cayuga Lake Watershed



Notes: July 26th, three blooms were reported around Myers Park . Two were confirmed – may be the same bloom.



Reported Cyanobacteria Blooms July 24th – July 27th

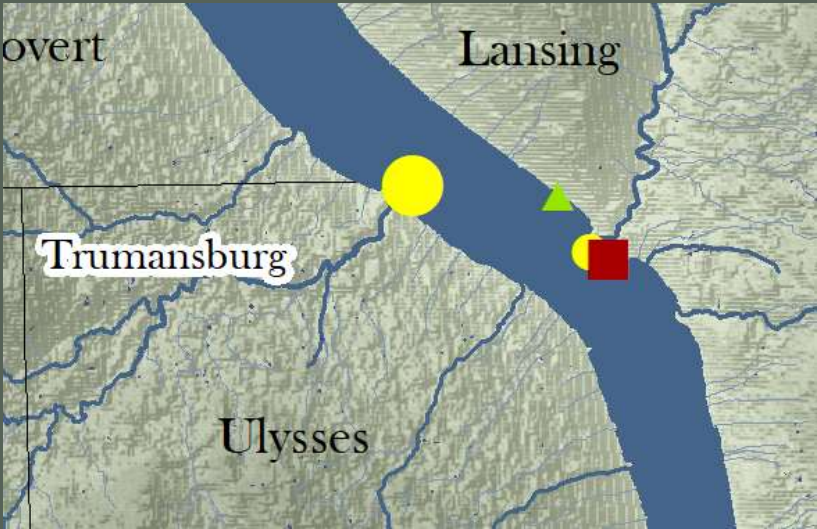
Legend

Bloom Icons

- ▲ Possible Bloom
- Suspicious Bloom
- Confirmed Bloom

Map Features

- Cayuga Lake Watershed



Notes: July 27th, a possible bloom was reported north of Myers Park. A **third** suspicious bloom was reported at Taughannock State Park.

Reported Cyanobacteria Blooms July 24th – July 28th

Legend

Bloom Icons

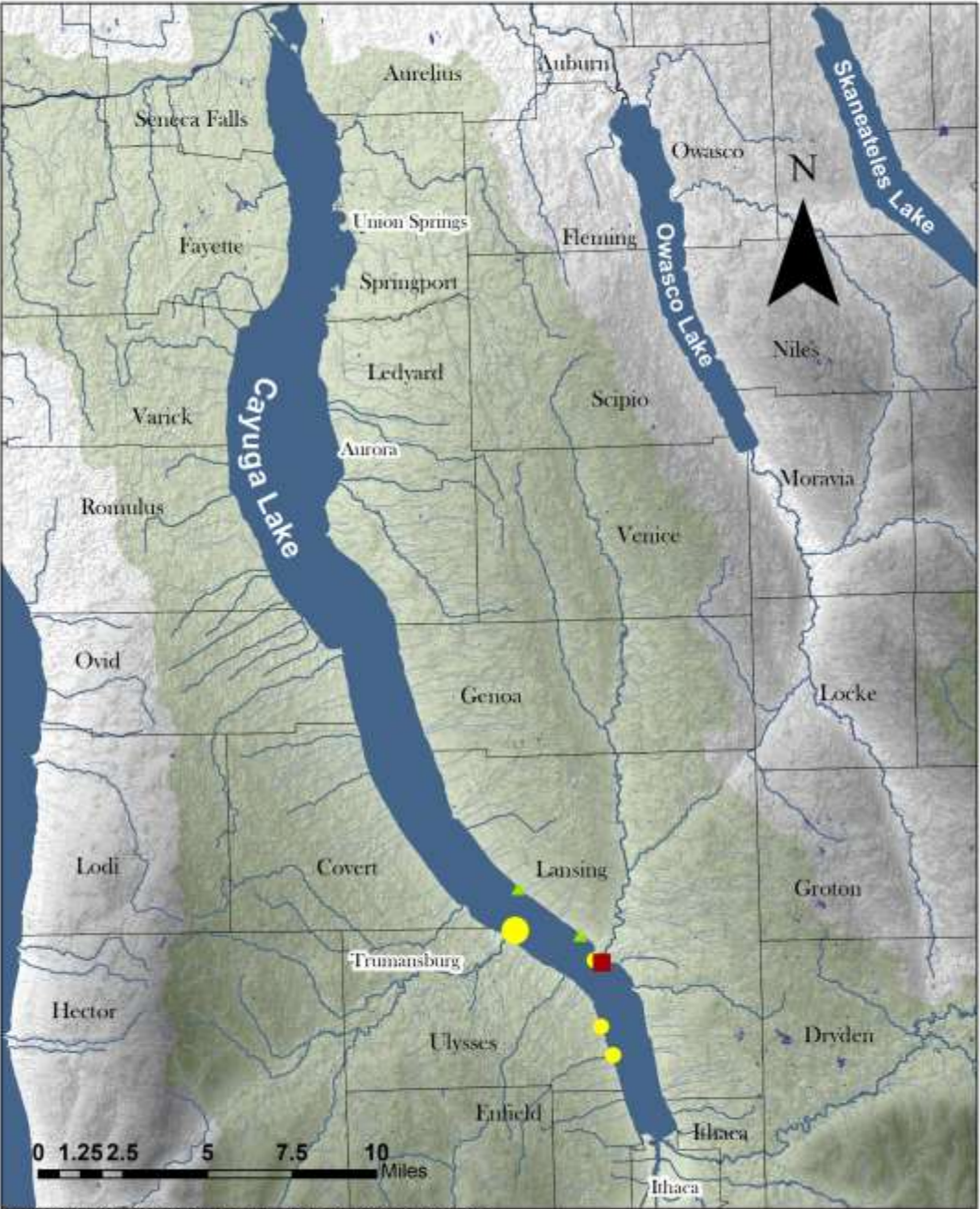
- ▲ Possible Bloom
- Suspicious Bloom
- Confirmed Bloom

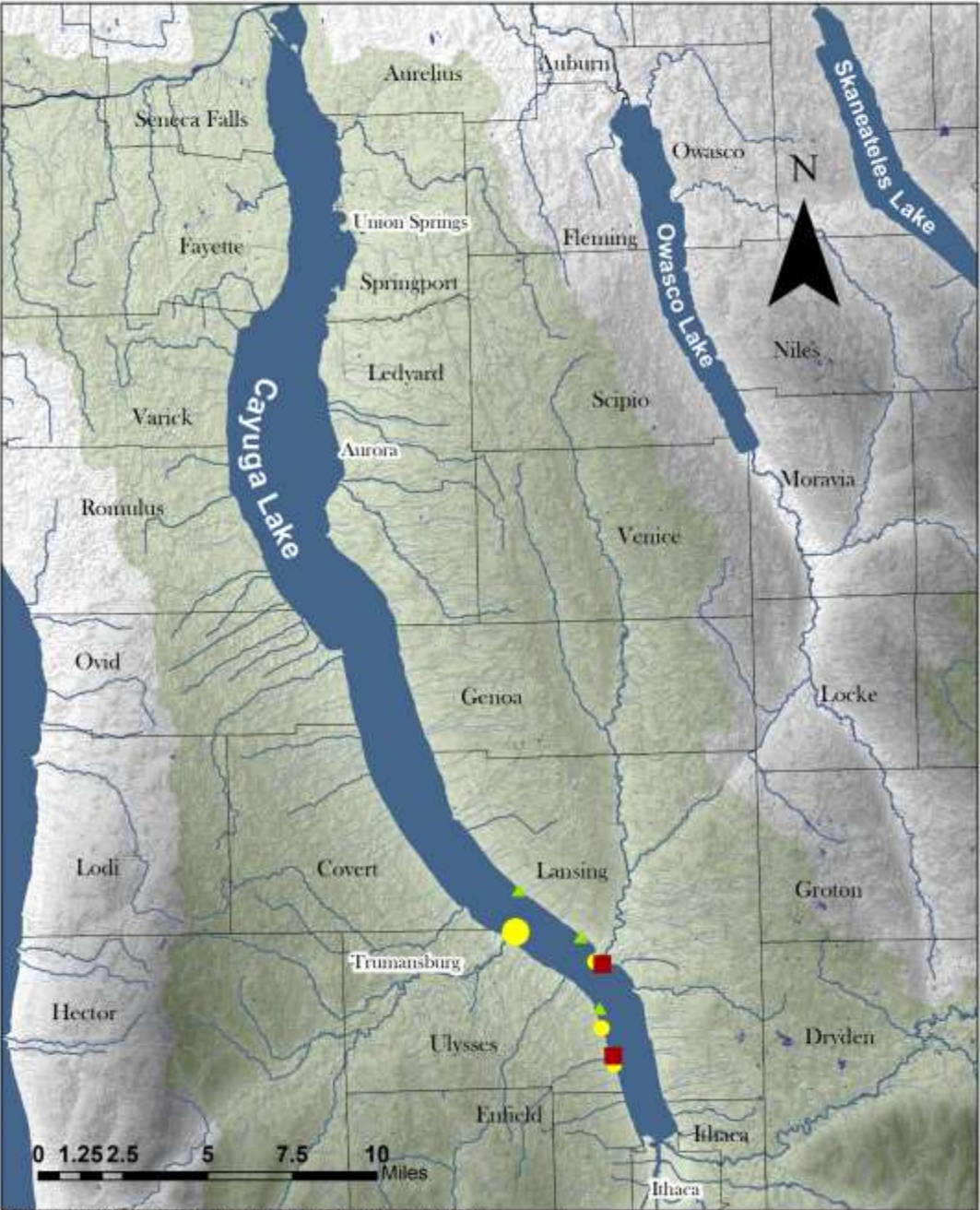
Map Features

- Cayuga Lake Watershed



Notes: July 28th, multiple possible and suspicious blooms reported along the east and west shores, respectively.





Reported Cyanobacteria Blooms July 24th – July 29th

Legend

Bloom Icons

- ▲ Possible Bloom
- Suspicious Bloom
- Confirmed Bloom

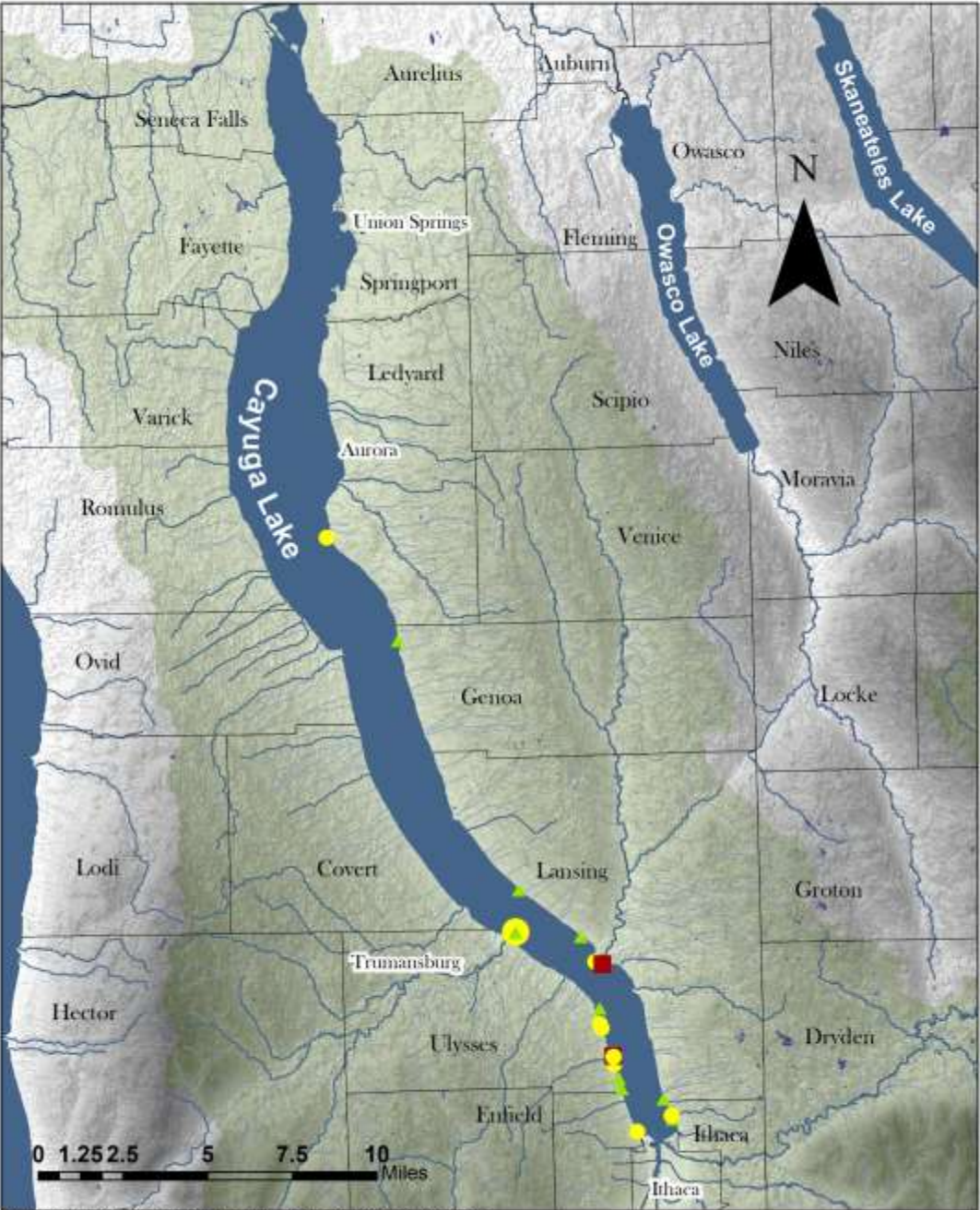
Map Features

- Cayuga Lake Watershed



Notes: July 29th, a confirmed bloom at the Ithaca Yacht Club and possible bloom on the southwest shore.

Cyanobacteria Blooms on Cayuga Lake 2017



Reported Cyanobacteria Blooms July 24th – July 30th

Legend

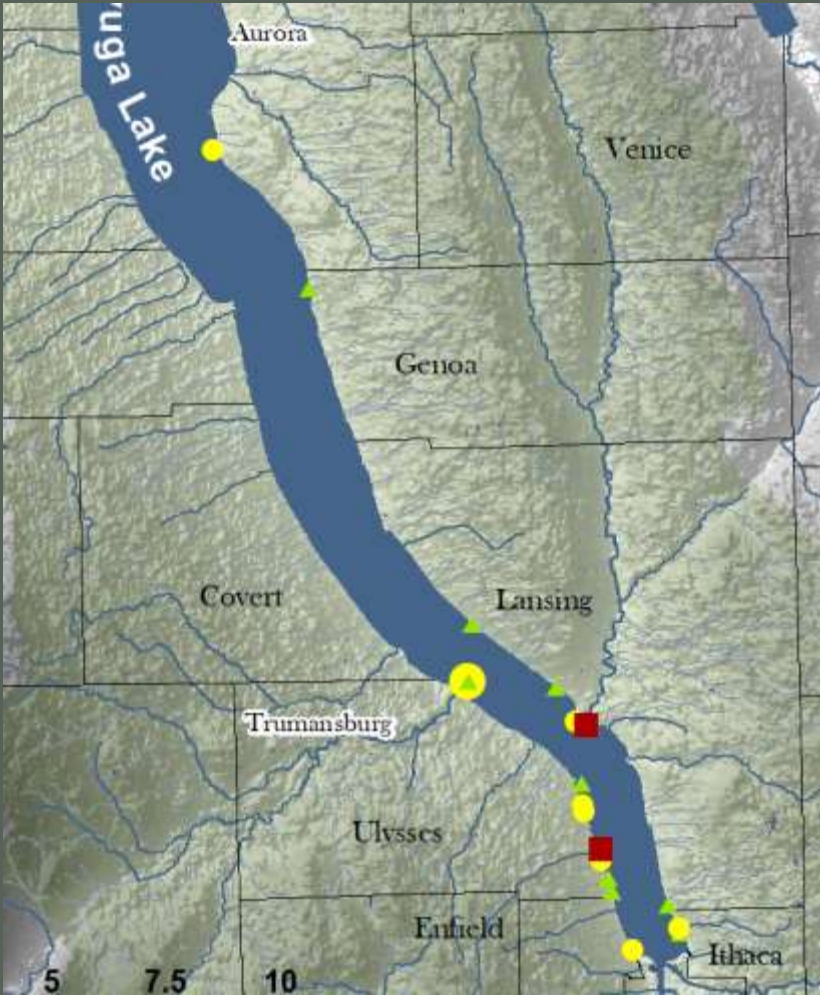
Bloom Icons

- ▲ Possible Bloom
- Suspicious Bloom
- Confirmed Bloom

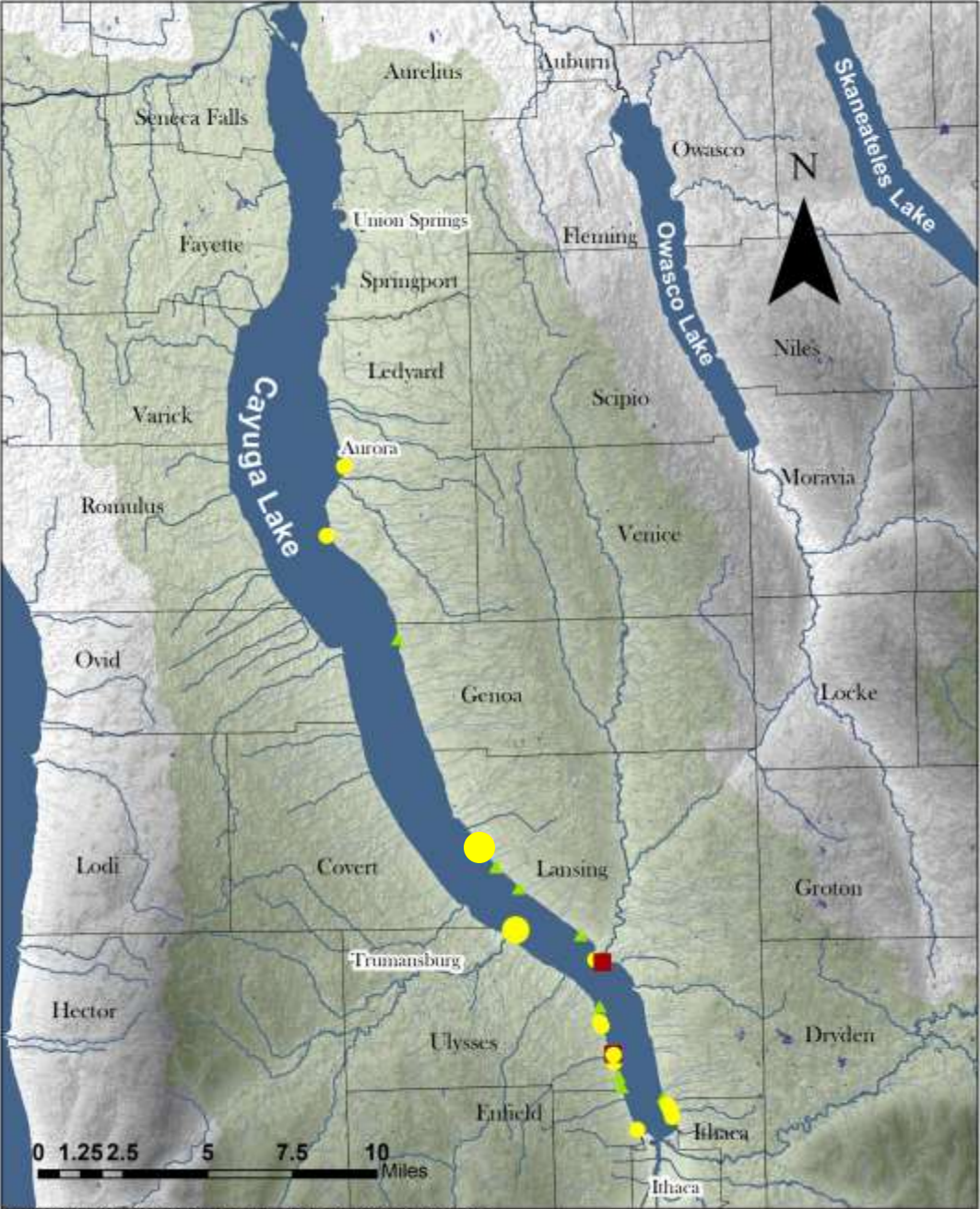
Map Features

- Cayuga Lake Watershed

Notes: July 30th, suspicious blooms and possible blooms reported on the eastern shore and southern tip.



Cyanobacteria Blooms on Cayuga Lake 2017



Reported Cyanobacteria Blooms July 24th – July 31st

Legend

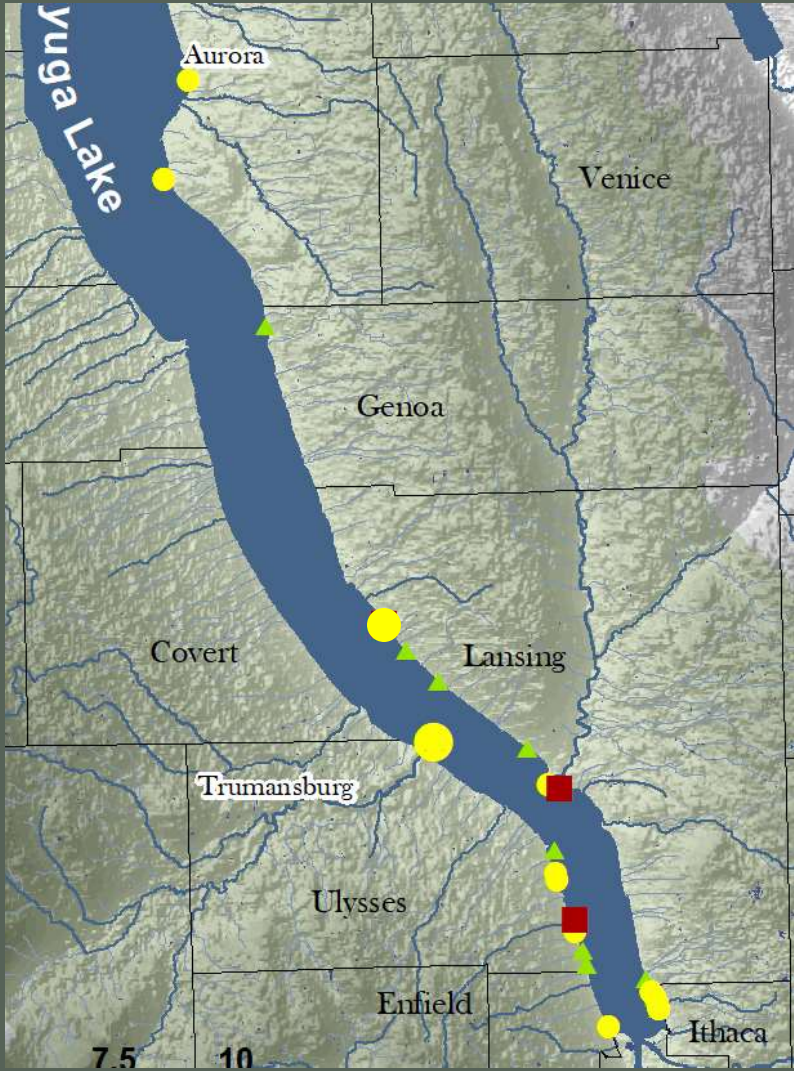
Bloom Icons

- ▲ Possible Bloom
- Suspicious Bloom
- Confirmed Bloom

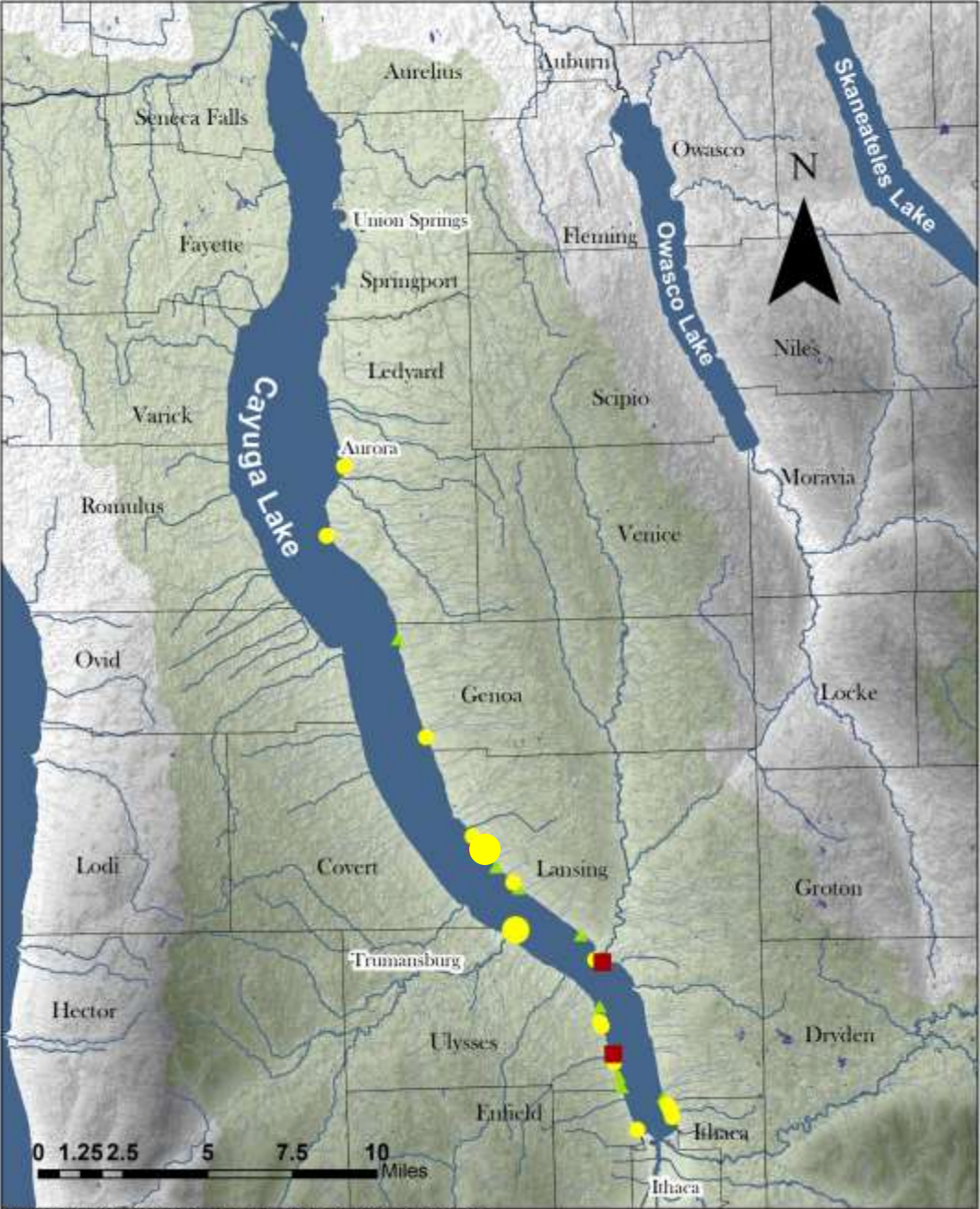
Map Features

- Cayuga Lake Watershed

Notes: July 31st, more suspicious blooms and possible blooms were reported at the southern tip of the lake and as far north as Wells College Dock in Aurora



Cyanobacteria Blooms on Cayuga Lake 2017



Reported Cyanobacteria Blooms July 24th – August 1st

Legend

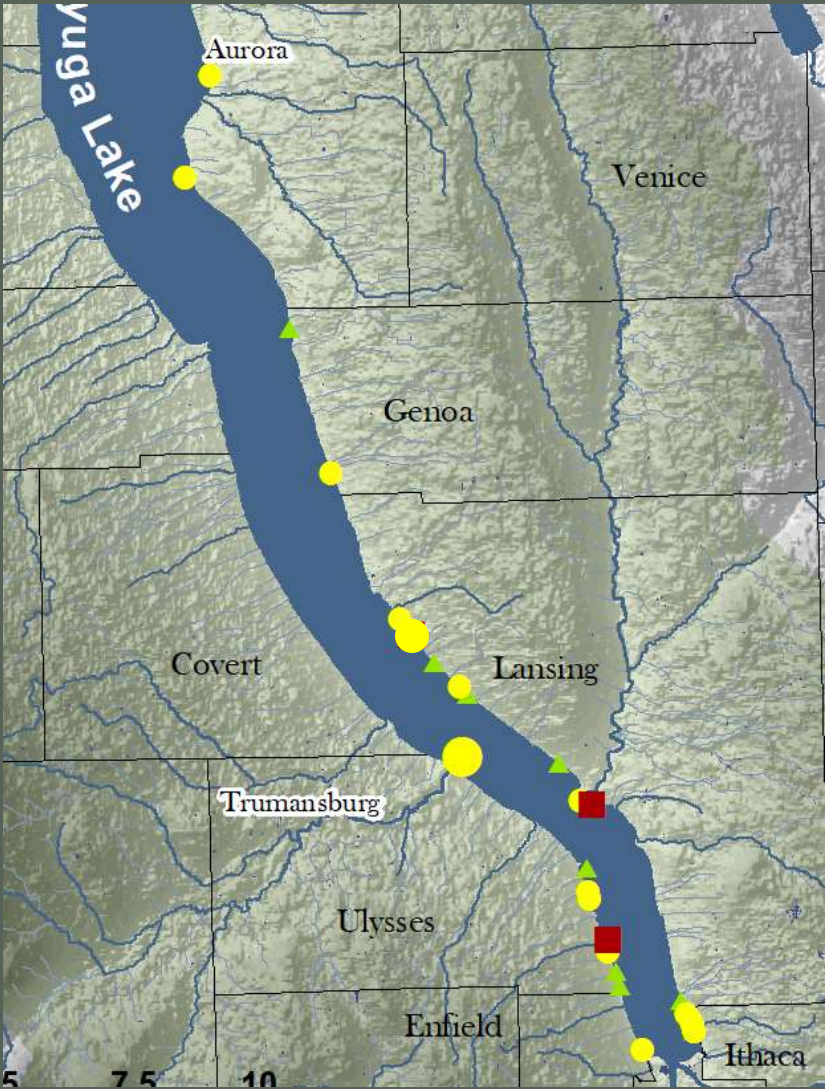
Bloom Icons

- ▲ Possible Bloom
- Suspicious Bloom
- Confirmed Bloom

Map Features

- Cayuga Lake Watershed

Notes: August 1st, three suspicious blooms on the east shore. A total of 13 possible blooms, 26 suspicious blooms, and 3 confirmed blooms were reported from July 24th – August 1st



Cyanobacteria Blooms on Cayuga Lake 2017



No blooms reported from
August 2nd – September 13th

Legend

Bloom Icons

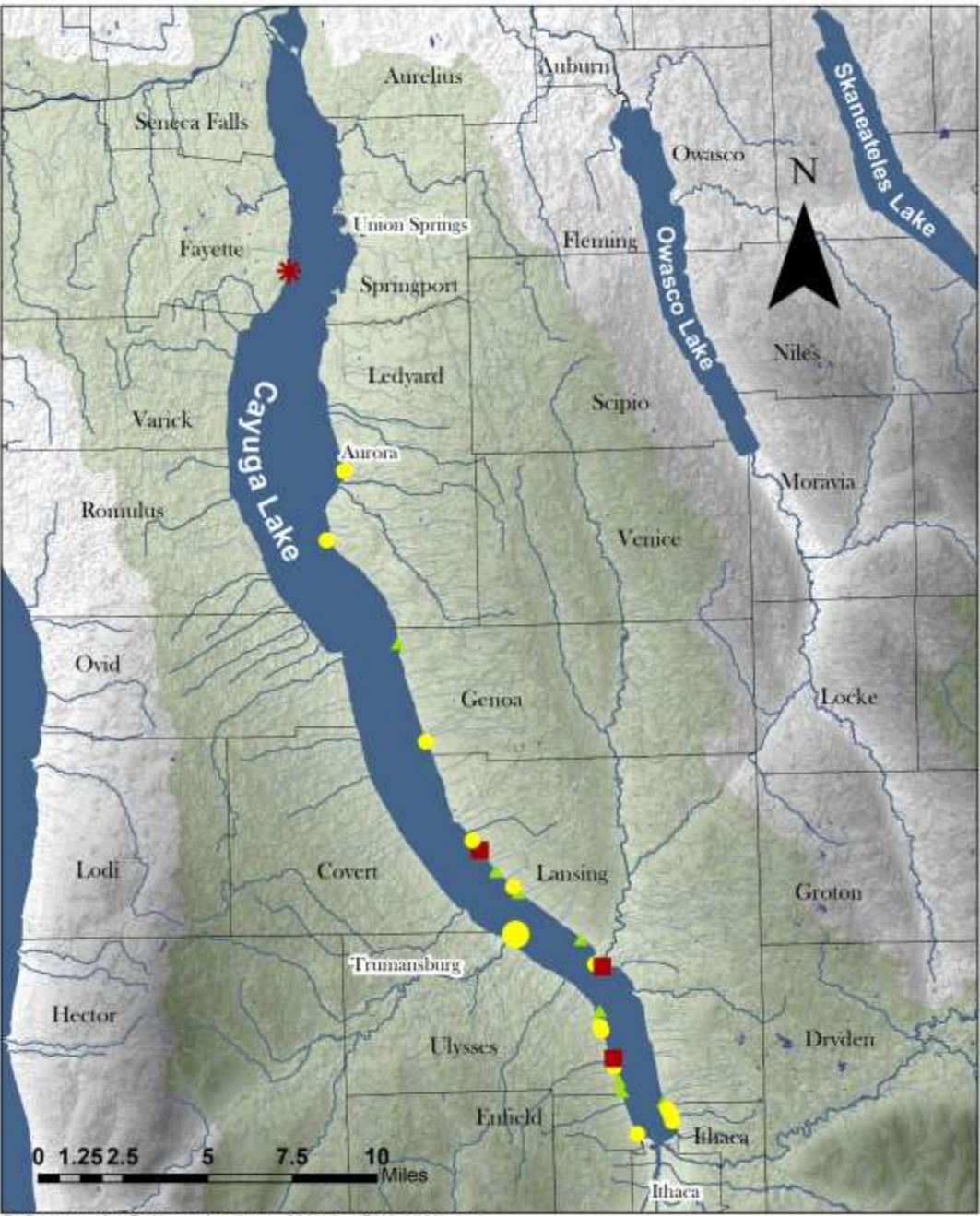
- ▲ Possible Bloom
- Suspicious Bloom
- Confirmed Bloom

Map Features

- Cayuga Lake Watershed

Notes:

Cyanobacteria Blooms on Cayuga Lake 2017



© Community Science Institute, Map by Claire Weston

September 14th, the first Confirmed with High Toxin Bloom is reported near Canoga

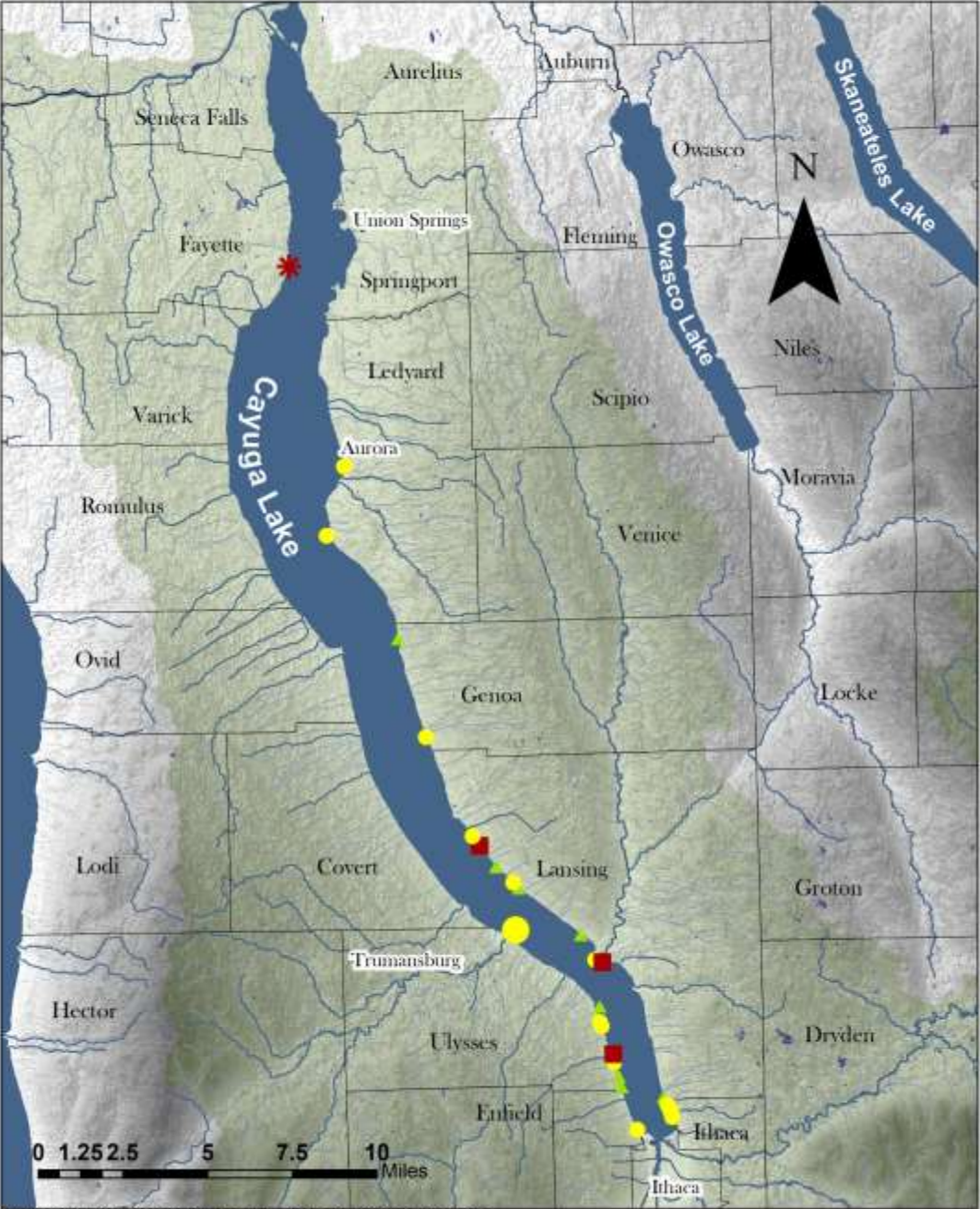
Legend

- Bloom Icons**
- ▲ Possible Bloom
 - Suspicious Bloom
 - Confirmed Bloom
 - ✱ Confirmed with High Toxins Bloom
- Map Features**
- Cayuga Lake Watershed



Notes: The bloom reported near Canoga had a microcystin concentration of 35.54 µg/L which is greater than the 20 µg/L DEC guidance value.

Cyanobacteria Blooms on Cayuga Lake 2017



September 20th, a second Confirmed with High Toxin Bloom is reported near Canoga

Legend

Bloom Icons

- ▲ Possible Bloom
- Suspicious Bloom
- Confirmed Bloom
- * Confirmed with High Toxins Bloom

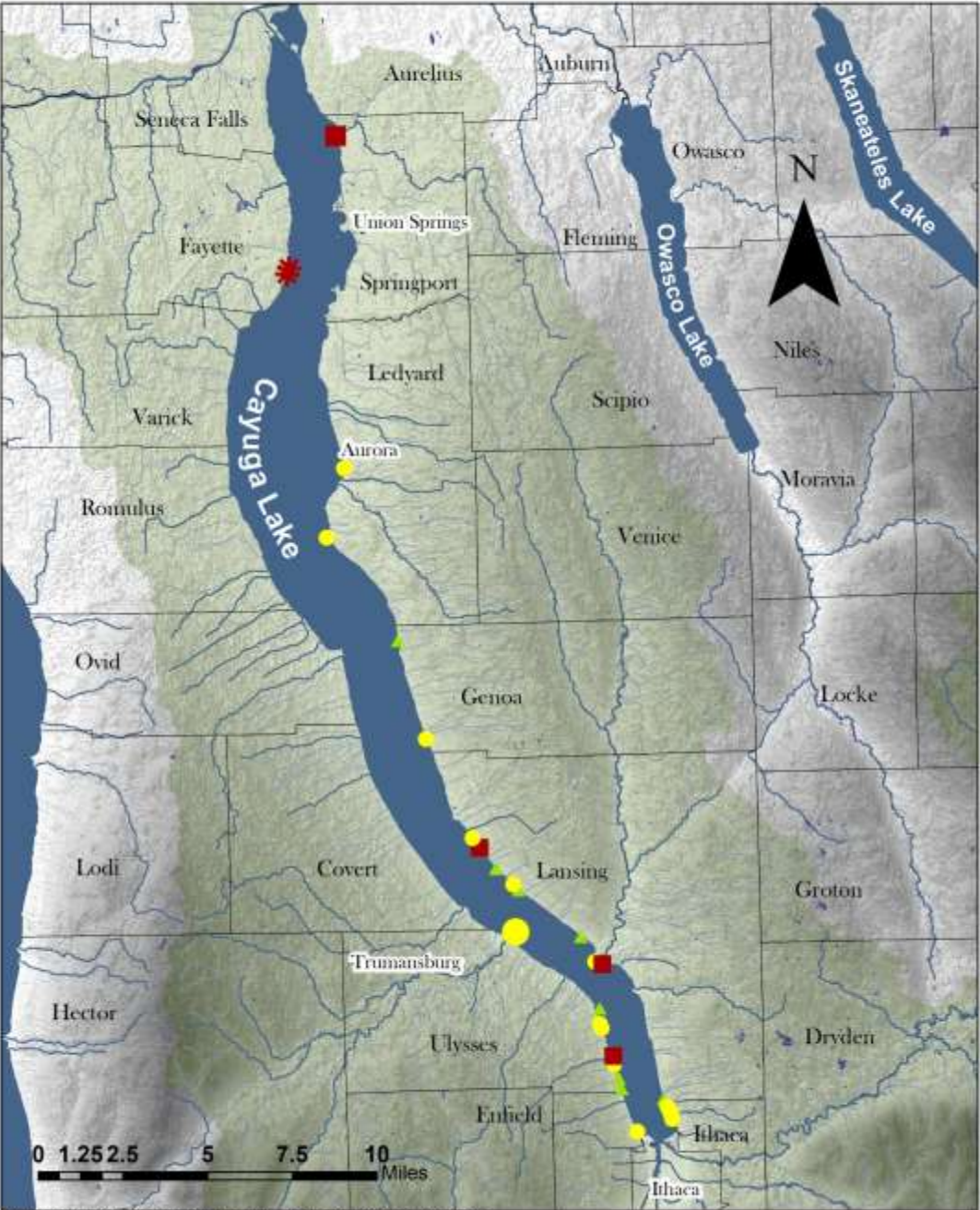
Map Features

- Cayuga Lake Watershed



Notes: The second bloom reported near Canoga had a microcystin concentration of 241.43 µg/L which is greater than the 20 µg/L DEC guidance value.

Cyanobacteria Blooms on Cayuga Lake 2017



September 26th, a Confirmed Bloom is reported near Yawger Creek. Toxin analysis is in progress.

Legend

Bloom Icons

- ▲ Possible Bloom
- Suspicious Bloom
- Confirmed Bloom
- ✱ Confirmed with High Toxins Bloom

Map Features

- Cayuga Lake Watershed



Notes: