

# Freshwater HABs Newsletter



Maumee River on N Summit Street, Toledo, OH.  
09/24/2017 Photo by Tom.  
[Aerial View](#)

## UPCOMING EVENTS

[6<sup>th</sup> International Symposium Marine and Freshwater Toxins Analysis](#)

October 22-25, 2017  
Baiona, Spain

[9<sup>th</sup> Symposium on Harmful Algae](#)

November 11-17, 2017  
Baltimore, MD

[19<sup>th</sup> International Conference on Harmful Algae](#)

December 18-19, 2017  
San Diego, CA

## [GEO Health Community of Practice Meeting Harmful Algal Bloom Early Warning System Side Event](#)

Contributions of GEO Environmental Observations in the following focus areas:

- Harmful Algal Bloom Early Warning System
- Integrating Methods for Air Quality and Health Data
- Global Observing System for Mercury and Persistent Pollutants
- Earth Observations for Health

This GEO Side Event is Open to the Public and Will Provide:

- Overview of the "One Health" approach as the interface of human, animal, and environmental health risks
- Emphasis on how earth observation analysis can influence knowledge translation for a range of applications
- Presentation of case studies that support transdisciplinary collaborations and intersect with GEO Work Programme activities
- Open dialogue to identify challenges and future steps toward enhanced integration of environmental observations into science education, practice, and research

**When:** Tuesday, October 24, 2017

**Time:** 1:00 to 5:00 pm

**Place:** Ronald Reagan Building and International Trade Center 1300 Pennsylvania Ave NW, Washington, D.C., ROOM Meridian C

**RSVP:** [http://www.earthobservations.org/reg\\_geo14\\_se.php](http://www.earthobservations.org/reg_geo14_se.php)

## [EPA Region 7 2017 Year of Science Quarterly Presentation: Open Science Approach to Cyanobacteria Research](#)

Please join us for a presentation on the open science approach to cyanobacteria research and how the process and results increase the reproducibility of our work, reach broader audiences, and eventually have a greater impact on our understanding and management of harmful algal blooms.

**Presenter:** Dr. Jeff Hollister, Research Ecologist, National Health and Environmental Effects Research Laboratory, Atlantic Ecology Division, Office of Research and Development

**When:** Wednesday, October 11, 2017 at 1:30 pm

**Adobe Connect:** <http://epawebconferencing.acms.com/r7habs/>

**Phone:** 866-299-3188 Code: 913-551-7090; Contact: Steve Krabbe x7991

## [NOAA awards \\$1.7 million for HABs research to protect public health from toxins in shellfish](#)

Nine multi-year research grants administered by NOAA's National Centers for Coastal Ocean Science will fund research for projects in Alaska, California, Florida, Maine, Maryland, Ohio and Virginia seeking to better understand and measure the toxicity of HABs. Grant recipients will conduct research to identify conditions that increase a bloom's toxicity; model toxin movement from the water into shellfish, fish and marine mammals; and improve toxin monitoring and forecasts.

## [Iowa Water Center Seed Grant and Graduate Student Research Competition](#)

To explore innovative ideas that will grow to be tools to assist in building future water-related policies and practices. Research priorities are: HAB events, nutrient transport related to HABs, treatment techniques and social science. Proposals are due November 8 by 5PM Central Time.

This newsletter was created by [Dr. Lesley V. D'Anglada](#), Office of Science and Technology, Office of Water, U.S. EPA. Mention of trade names, products, or services does not convey and should not be interpreted as conveying official EPA approval, endorsement, or recommendation for use.

## States with Blooms, Advisories and/or Beach Closures Reported in September 2017



### BLOOMS, BEACH CLOSURES and/or HEALTH ADVISORIES, SEPTEMBER 2017

**California:** Eel River, Klamath River, Arroyo del Valle, Huichica Pond, Lake Anza, Lake Chabot, Lake Temescal, McNabney Marsh, Quarry Lakes, Laguna Lake, Pyramid Lake, Clear Lake, Discovery Bay, Grant Line Canal, Kern River, Lake Britton, Mountain Meadows Reservoir, Old River, San Joaquin River, Shasta Lake, San Luis Reservoir, Diaz Lake, Millpond, Rim Rock Lake, Silverwood Lake, Canyon Lake, Lake Elsinore, Lindo Lake

**Florida:** New River Canal, St. John's River, Doctor's Lake

**Indiana:** Mississinewa Lake, Salamonie Lake, Sand Lake, Hardy Lake, Worster Lake, Brookville Lake, Cecil; M. Harden Lake, Monroe Lake, Starve Hollow Lake, Whitewater Lake

**Idaho:** Blacks Creek Reservoir, Little Camas Reservoir, Thorn Creek Reservoir, Lake Lowell, Spicer Pond, Henrys Lake, Long Tom Reservoir, Mountain Home Reservoir, Mormon Reservoir

**Kansas:** Lake Scott State Park, Overbrook City Lake, Sam's Pond, Marion County Lake, Milford Lake (Zones A, B and C), Perry Lake, Veteran's Lake, Overbrook City Lake, Brown County State Fishing Lake, Central Park Lake, Hiawatha City Lake, Hodgeman County State Fishing Lake, Melvern Outlet River Pond and Swim Pond, Sam's Pond, South Lake

**Massachusetts:** Chauncy Lake, Fort Meadow Reservoir, Keyes Pond, Walkers Pond, Santuit Pond, Wampatuck Pond, West Monponsett Pond

**Minnesota:** Carver Lake

**Nebraska:** Big Indian Lake, Iron Horse Trail, Kirkman's Cove Lake, Maple Crake Recreation Area Lake, Pawnee Lake, Rockford Lake, Swan Creek Lake, West Mormon Island Lake, Willow Creek Reservoir

**New Hampshire:** Long Pond, Turtle Pond, Partridge Lake, Long Pond

**New York:** Agawan Lake, Allegheny Reservoir, Avon Marsh Dam Pond, Basic Creek Reservoir, Beaver Lake, Bedford Lake, Browns Pond, Canandaigua Lake, Cayuga Lake, Cayuta Lake, Chautauqua Lake, China Pond, Conesus Lake, Coopers Neck Pond, Craine Lake, DeRuyter Reservoir, Duane Lake, East Sidney Lake, Esopus Creek, Findley Lake, Forest Lake, Fort Pond, Harlem Meer, Hiawatha Lake, Honeoye Lake, Indian Lake, Java Lake, Keuka Lake, Lake Huntington, Lawson Lake, Lime Lake, Little We Wah Lake, Mariaville Lake, Mill Pond, Nassau lake, New Croton Reservoir, Newark Reservoir, Oakland Lake, Old Town Pond, Orange Lake, Owasko Lake, Peach Lake, Pleasure Lake, Plymouth Reservoir, Poxabogue Pond, Prospect Park Lake, Roaring Brook Lake, Rockland Lake, Roth Pond, Round Lake, Saratoga Lake, Sayre Lake, Seneca Lake, Silver Lake, Skaneateles Lake, Spring Lake, Stony Brooke Duck Pond, The Lake in Central Park, Thunder Lake, Tully Lake, Turtle Pond, Wainscott Pond, Walkill River, Waneta Lake, Washington Park Pond, Winding Hills Park Lake

**New Jersey:** Meyers Brook, Swartswood Lake, Sunset Lake, Washington Valley, Silver Lake, Lake Ceva

**North Dakota:** Harvey Reservoir, Lake LaMoure, Bowman-Haley Reservoir, Long Lake, Renwick Dam, Fordville Dan, Channel A -Devils Lake, Homme Dam, Upper Des Lacs Lake, Sweet Briar Dam

**Ohio:** Maumee Bay, Lake Erie, Sandusky Bay, Buckeye Lake, Kiser Lake, Williard City Reservoir

**Oregon:** South Umpqua River - Permanent Advisory, Areas of Lake Billy Chinook, Drews Reservoir, Coffenburg Lake, Howard Bay, Brownlee Reservoir, Agency Lake, Willow Creek Reservoir, Klamath Lake and Klamath River

**Rhode Island:** Mashapaug Pond, Lawton Valley Reservoir, Slack Reservoir, Blackamore Pond

**Utah:** Deer Creek, Mantua Reservoir, Ogden City 21<sup>st</sup> Street Pond, Utah Lake, Jordan River, Blackridge Reservoir

**Vermont:** Lake Carmi State Park and North Beach, Shelburne Pond Boat Launch, St. Albans Boat Launch, Highgate Springs, Bulwagga bay Beach, Cohen Park St. Albans, Black Bridge, Melville Landing, Pier of Philipsburg, Ticklenaked Pond, Georgia Beach,

**Virginia:** Prince Edward Lake, York River, Chris Greene Lake

**Washington:** Scootenev Reservoir, Lone Lake, Long Lake, Sunset Lake, Bay Lake, Rufus Woods Lake, Lake Jeane, [Steilacoom Lake](#), [Tanwax Lake](#), [Bay Lake](#), [Waughop Lake](#), [Silver Lake](#), [Whitman Lake](#), [Spanaway Lake](#)

## RECENTLY PUBLISHED ARTICLES

### [Analysis of Microcystin-LR And Nodularin Using Triple Quad Liquid Chromatography-Tandem Mass Spectrometry And Histopathology In Experimental Fish](#)

Daljit Vudathala, Stephen Smith, Lester Khoo, David d. Kuhn, Mary E. Mainous, James Steadman, Lisa Murphy, Toxicon, Volume 138, 2017, pages 82-88

### [Molecular and morphological survey of saxitoxin-producing cyanobacterium isolated from geographically distinct regions of Australia](#)

Joao P.A. Pereyra, Paul M. D'agostino, Rabia Mazmouz, Jason N. Woodhouse, Russell Pickford, Ian Jameson, Brett A. Neilan, (), Toxicon, Volume 138, 2017, Pages 68-77

### [Effect of chlorination by-products on the quantitation of microcystins in finished drinking water](#)

L.Rosenblum, Alan Zaffiro, William A. Adams, Steven C. Wendelken, Toxicon, Volume 138, 2017, Pages 138-144

### [Vertical transmission of microcystins to Nile crocodile eggs](#)

Alukhethi Singo, Jan G. Myburgh, Peter N. Laver, Elizabeth A. Venter, Gezina C.H. Ferreira, Gertruida M. Rösemann, Christo J. Botha, Toxicon, Volume 134, 2017, Pages 50-56

### [Effects of crude extracts of a saxitoxin-producer strain of the cyanobacterium on the swimming behavior of wild and laboratory reared guppy](#)

Karina C. Lopes, Aloysio da S. Ferrão-Filho, Everton G.N. dos Santos, Rodolfo A. Cunha, Cláudia P. Santos, Toxicon, Volume 129, 2017, Pages 44-51

### [First occurrence of cylindrospermopsin in Portugal: a contribution to its continuous global dispersal](#)

Cristiana Moreira, Rita Mendes, Joana Azevedo, Vitor Vasconcelos, Agostinho Antunes, Toxicon, Volume 130, 2017, Pages 87-90

### [Eutrophication will increase during the 21<sup>st</sup> century as a result of precipitation changes](#)


E. Sinha, A. M. Michalak, V. Balajinha et al., Science 357, 405–408 (2017) 28 July 2017

### [Using mineralogy and higher-level taxonomy as indicators of species sensitivity to pH: A case-study of Puget Sound](#)

Busch S, McElhany P. Elem Sci Anth. 2017; 5:53.

## Important Links

- ‡ [NOAA's Lake Erie HAB Forecast](#)
- ‡ [USGS's Survey Maps](#)
- ‡ [4<sup>th</sup> Issue of CYANOnews](#)
- ‡ [Addressing Nutrient Pollution in Our Nation's Waters: The Role of a Statewide Utility](#)
- ‡ [August issue EPA's Fish and Shellfish Program Newsletter](#)
- ‡ [Research Experiences for Undergraduates \(REU\) Summer 2018 - Warm-water Aquatic Ecology at Auburn University, Alabama](#)
- ‡ [Toxins Topical Collection "Freshwater HABs and Health in a Changing World"](#)
- ‡ [Arkansas Drinking Water Update – ADH Samples Selected Water Sources for Cyanotoxins](#)

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