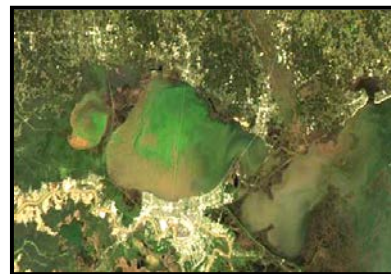


Freshwater HABs Newsletter



Cyanobacteria Bloom
Lake Pontchartrain, LA

[HABHRCA: An Interagency Progress and Implementation Report](#)

On March 6, NOAA transmitted to Congress *A report on Interagency Progress and Implementation*, a report developed by the Interagency Working Group on the Harmful Algal Bloom and Hypoxia Research and Control Act (IWG-HABHRCA). This report provides details on actions and activities that the agencies involved with the IGW have undertaken since the publication of National and Great Lakes-focused research plans and action strategies.

[EPA announces action plan to combat HABs in Lake Erie](#)

On March 7, EPA released the United States' domestic action plan for reducing phosphorus, a major contributor to HABs, in Lake Erie. The plan outlines federal and state efforts to achieve the binational phosphorus reduction targets adopted by the United States and Canada in 2016 under the Great Lakes Water Quality Agreement.

[Special Focus Article: Nutrient Pollution and Algal Blooms](#)

EPA's *Nonpoint Source News-Notes* - March 2018 issue - included a section on nutrient pollution and HABs with two short articles: one on Hypoxia and the Gulf of Mexico Hypoxic Zone, and one on federal resources to help protect people and wildlife from HABs. This was the final issue of the newsletter. EPA's *NPS News-Notes* newsletter described new and innovative programs, tools and resources available to help manage polluted runoff.

[U.S. EPA on CYANOnews](#)

The March and April 2018 issue of CYANOnews, features a story on EPA's efforts to address HABs impacting drinking and recreational waters. The story gives an overview of EPA's monitoring and risk assessment development activities related to HABs. CYANOnews is published by the European Union-funded CYANOCOST Network, which seeks to share cyanobacteria science and research across Europe.

[Lake Erie Open Water declared impaired by Ohio](#)

Ohio EPA is proposing to designate declared the open waters of western Lake Erie (from the Michigan/Ohio state line to the Marblehead Lighthouse) as impaired for recreation due to harmful algae and drinking water due to occurrences of microcystin. Although details of the impairment designation are still to be worked out, it will invariably mean tighter rules for agriculture and others that release nutrients into western Lake Erie tributaries. The announcement was included the state's 2018 water quality report that is being put out for public comment.

UPCOMING EVENTS

[2nd Interdisciplinary Freshwater Harmful Algal Blooms Workshop](#)

April 16th-18th, 2018
Toronto, Canada

[SETAC Europe HABs Special Session](#)

May 13-17, 2018
Rome, Italy

[ASLO 2018 HABs Special Session](#)

June 10-15, 2018
Victoria, BC, Canada

[IAGLR 2018 Conference HABs Special Session](#)

June 18-22, 2018
Toronto, Canada

[UCOWR & NIWR 2018 Annual Water Resources Conference](#)

June 26-28, 2018
Pittsburgh, PA

[18th ICHA](#)

October 21-26, 2018
Nantes, France

[NALMS 2018](#)

October 30 - Nov. 2, 2018
Cincinnati, OH



To sign up please
send an email to:
epacyanohabs@epa.gov



For more information,
please visit [EPA's
CyanoHABs Website](#)

RECENTLY PUBLISHED ARTICLES

[Exploring the potential of high-density cultivation of cyanobacteria for the production of cyanophycin](#)

Luca Lippi, Lars Bähr, Arne Wüstenberg, Annegret Wilde, and Ralf Steuer. Algal Research, Volume 31, 2018, pages 363-366.

[Rapid detection and quantification of the potentially toxic cyanobacterium Planktothrix rubescens by in-vivo fluorometry and flow cytometry](#)

Thomas Weisse and Victoria Bergkemper. Water Research, Volume 138, 1 July 2018, pages 234-240.

[The impact of wastewater characteristics, algal species selection and immobilisation on simultaneous nitrogen and phosphorus removal](#)

Matthew Kube, Bruce Jefferson, Linhua Fan, and Felicity Roddick. Algal Research, Volume 31, 2018, pages 478-488.

[Assessment of beyond-the-field nutrient management practices for agricultural crop systems with subsurface drainage](#)

M. Kalcic, W. Crumpton, X. Liu, J. D'Ambrosio, A. Ward and J. Witter. Journal of Soil and Water Conservation January/February 2018 vol. 73 no. 1, pages 62-74.

[A hand-held fluorescent sensor platform for selectively estimating green algae and cyanobacteria biomass](#)

Young-Ho Shin, Jonathan Z. Barnett, M. Teresa Gutierrez-Wing, Kelly A. Rusch, Jin-Woo Choi. Sensors and Actuators B: Chemical, Volume 262, 1 June 2018, pages 938-946.

[Legacy nitrogen may prevent achievement of water quality goals in the Gulf of Mexico](#)

K. J. Van Meter, P. Van Cappellen, and N. B. Basu. Science, 22 March 2018.

[New solution to harmful algal blooms raises hope of economic and environmental benefits](#)

ScienceDaily. John Innes Centre. March 16, 2018

[Four kinds of algal toxins found in San Francisco Bay shellfish](#)

ScienceDaily. University of California - Santa Cruz. March 12, 2018.

[Microcystins: Synthesis and structure–activity relationship studies toward PP1 and PP2A](#)

Miriam Fontanillo and Maja Köhn. Bioorganic & Medicinal Chemistry, Volume 26, Issue 6, 2018, pages 1118-1126.

[Developmental neurotoxicity of Microcystis aeruginosa in the early life stages of zebrafish](#)

Haifeng Qian, Guangfu Liu, Tao Lu, and Liwei Sun. Ecotoxicology and Environmental Safety, Volume 151, 2018, pages 35-41.

[An overview of the accumulation of microcystins in aquatic ecosystems](#)

Thanh-Luu Pham and Motoo Utsumi. Journal of Environmental Management, Volume 213, 2018, pages 520-529.

[Phytotoxicity, bioaccumulation and potential risks of plant irrigations using cyanobloom-loading freshwater](#)

Yunlu Jia, Huiling Li, Yueming Qu, Wei Chen, and Lirong Song. Science of The Total Environment, Volume 624, 2018, pages 704-712.

BIOOMS, BEACH CLOSURES and HEALTH ADVISORIES*, MARCH 2018

The following map includes blooms, cautions, warnings, public health advisories, closings and detections over the State's threshold, due to the presence of algae, toxins or both. This is not a comprehensive list, and many blooms may have not been reported.



- [California](#) (3): Huichica Pond, Lake Chabot, Quarry Lakes
- [Massachusetts](#) (1): Winona Pond Water Treatment Plant, City of Peabody
- [Ohio](#) (1): Cadiz Public Water Treatment Plant Intake
- [Oregon](#) (1): South Umpqua River
- [Washington](#) (1): Kitsap Lake

Important Links

- ✓ [Cyanobacteria: Facts and Response Actions for Idaho's Public Water System Operators](#)
- ✓ [NOAA Ocean Acidification Program](#)
- ✓ [Updated EPA's Drinking Water Standards and Health Advisory Table](#)
- ✓ [CDC's NORS Dashboard](#)
- ✓ [Great Lakes Connection Monthly Newsletter - March 2018](#)

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

For previous newsletters, go to [Freshwater HABs Newsletter](#).