The Great Lakes
HABs Collaborative:
connecting science and management

Great Lakes and St. Lawrence Cities Initiative
November 19, 2020
Presented by Co-Chair Dr. Katie Stammler, ERCA
What is the HABs Collaborative?

The Great Lakes HABs Collaborative seeks to improve communication among scientists, and between scientists and decision-makers, on issues related to Harmful Algal Blooms (HABs) in the Great Lakes.
What is the HABs Collaborative?
Organizational Structure

Interested Stakeholders (i.e. Listserv Members)

Great Lakes Commission Staff Support

HABs Collaborative

Steering Committee

The Collaborative, with members identified by the Steering Committee, as needed, based on specific expertise
Organizational Structure

Great Lakes Commission
Staff Support

Interested Stakeholders
(i.e. Listserv Members)

HABs Collaborative

State and Federal Agencies,
NOAA, IJC, EPA, NGOs,
Academia

The Collaborative,
with members
identified by the
Steering Committee,
as needed, based on
specific expertise

US Co-Chair: Dr. Tim Maguire
Canadian Co-Chair: Dr. Katie Stammler

Linking Science and Management to Reduce Harmful Algal Blooms
Currently we are missing representation from municipalities on the Steering Committee.

If you’re interested in joining the Steering Committee, please contact GLC Program Manager Nicole Zacharda at nzacharda@glc.org
Listserv Membership

2015

- Universities: 59%
- Government: 36%
- Private sector: 5%

~75 members

2020

- Universities: 37%
- Government: 35%
- Other: 28%

280+ members
About the HABs Collaborative

The Great Lakes HABs Collaborative is a “collective laboratory” that seeks to improve communication among scientists, and between scientists and decision-makers, on issues related to Harmful Algal Blooms (HABs) in the Great Lakes. Established by the Great Lakes Commission (GLC), in partnership with U.S. Geological Survey – Great Lakes Science Center in 2015, the HABs Collaborative is helping to establish a more common knowledge base of where science currently is on HABs, what future science needs may be, and how the region can work together to better prevent and manage HABs.

HABs in the Great Lakes have poisoned drinking water, threatened public health, and hurt the regional economy. Management is a complex, regional challenge that cannot be addressed by one state or by traditional management. The Great Lakes HABs Collaborative is part of the GLC’s portfolio of collaborative projects that apply the collective impact framework to address complex problems facing the Great Lakes. The model for the Collaborative also builds on similar coordinating efforts by the GLC to address invasive Phragmites and invasive mussels in the Great Lakes.
Webinars

- Lakewide Management, the Great Lakes Water Quality Agreement, & HABs *(March 2020)*
- Smart Watersheds for Smart Lake Management *(Feb. 2020)*
- Great Lakes Observing System *(Jan. 2019)*
- Current and Emerging HABs-related Technology in the Great Lakes *(Nov. 2018)*
- Great Lakes HABs Modelling Webinar *(Mar. 2017)*
- HABs Collaboratory and Invasive Mussels Collaborative Joint Webinar *(Jan. 2017)*
- 2016 State of the Science Webinar Series
  - Data and modeling; Sources and movements *(Jun. 2016)*
  - HABs and safe drinking water; Detection, composition and effects; Public health *(Jul. 2016)*
  - Monitoring and forecasting; Sources and toxicity *(Aug. 2016)*
  - Educate & engage *(Sept. 2016)*
Quarterly Newsletter

- Updates on work of the Collaborative
- Member spotlight
  - Submitted by members of the Collaborative
  - Features work from across the Great Lakes
- Announcements for upcoming events
- Read past newsletters at: glc.org/work/habs/news
Publications

- Presented in an easily digestible format

- On topics of interest to the public, management community, and/or policy makers

- Available at: glc.org/work/habs/publications

Phosphorus (P) and HABs: Sources of P from the Maumee River
  - Published on 9/12/2017

How Does Nitrogen Affect Harmful Algal Blooms?
  - Published on 10/09/2017

A Collaborative Approach: Linking science and management to reduce harmful algal blooms
  - Available at: http://bit.ly/HABsCollabVideo

Who Does What? A Guide to Agencies’ Roles in HABs
  - In Progress

Great Lakes Harmful Algal Blooms: Current Knowledge Gaps
  - In Progress
Future Work: Research Dashboard

- To be hosted on a new HABs Collaborative website
- Clickable dashboard to navigate different areas of research
- Will contain information on the various research efforts occurring throughout the Great Lakes basin
- Development will begin in January 2021
Future Work: Research Dashboard

Clickable interface to navigate Great Lakes research

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<tr>
<th>Nitrogen Research Detail</th>
<th>Research Team</th>
<th>Name of Project/Link to More Info</th>
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Keeping in Touch

Website:
https://www.glc.org/work/hab-collaboratory

Join the List-Serv:
habscollaboratory+subscribe@great-lakes.net

@GLHABsCollab
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