

# FY18 RSM IPR: Continued Great Lakes Tributary Modeling (GLTM) Program Outreach



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**BLUF:** To improve Great Lakes water quality, delist Areas of Concern (AOCs), and reduce the need for navigation dredging, the GLTM Program has provided technical assistance to local and state agencies in the planning and implementation of nonpoint source pollution prevention measures. This project continues GLTM outreach and technical assistance to Great Lakes decision-makers.

## Challenges

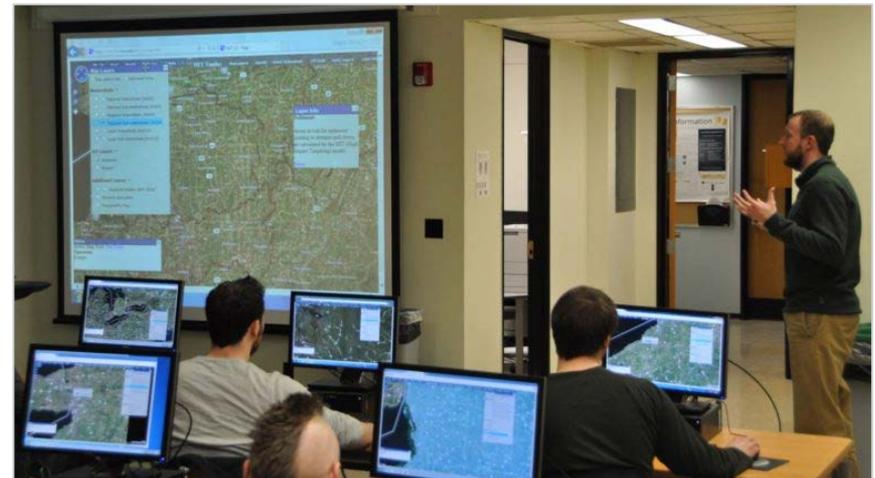
- Sedimentation within navigation channels requires dredging of 2-5 million cubic yards annually
- Sediment and runoff may have high level of pollutants

## Approach

- Outreach to increase use of tools that better estimate nonpoint source pollutant inputs from agricultural and urban areas
- Annual workshop at LRC
- Webinars and in-person workshops
  - HIT
  - L-THIA/LID
  - WEPP



Great Lakes Basin (dark gray) and location of Areas of Concern



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### District/Other USACE PDT Members

- Kaitlyn McClain, CELRC-PMD-EP, Community Planner
- Alex Hoxsie, CELRC-PMD-EP, Landscape Architect/Planner
- Jim Selegan, CELRE-HH, Hydraulic Engineer
- Mike Voorhees, CELRB -TD-RN, Biologist/Planner

### Leveraging/Collaborative Opportunities

- University initiatives
  - Purdue
  - Michigan State University
- Federal agencies/initiatives
  - Great Lakes Restoration Initiative
  - USGS
  - USFWS
  - NRCS

### Partners

- Tom Crane, Deputy Director, Great Lakes Commission
- Michèle Leduc-Lapierre, Outreach Coordinator, Great Lakes Commission

### Stakeholders

- Local planning agencies
- State agencies
- NGOs



Workshop held at LRC in 2017

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### Accomplishments

- Completed inventory of online tool statuses – April 2018
- Discussed implementation of workshop and training sessions with PDT – April 2018
- Contacted university partners about status of offline tool – May 2018
- Contacted GLC partners to discuss workshop planning – May 2018

### Lessons Learned

- Relying on universities and outside partners to host web-based content can be challenging

### Deliverables

**GLTM Program Summary Report and RSM IPR participation**

**Annual GLTM Sedimentation Workshop**

**Workshop summary and presentations on website**

**In-person tributary model training courses (2 sessions)**

**Instructional webinars for GLTM web-based tools (3 sessions)**

**Outreach Article**

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What challenges did you face to get your project to implementation and how did you move past them? If not yet implemented, **what is your path forward?**

### Path Forward

- Set up regular PDT meeting calls
  - Determine workshop & webinar audience, dates, content, marketing strategy, etc.
  - Prepare summary report
- Continue to coordinate with GLC regarding Annual Sedimentation Workshop logistics and agenda

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### How is this project benefiting the USACE and Nation?

- Reducing amount of dredging, saving money
- Reducing amount of sediment entering Great Lakes, improving water quality
- Increasing technical capacity of state and local decision-makers
- Transfer of knowledge and problem-solving strategies at annual workshop

The screenshot shows the homepage of the Great Lakes Tributary Modeling Program. The header features the program name and navigation links: About, Fundamentals, Models, Online Tools, and Additional Resources. A main banner image of a stream with a text overlay reads "Find completed models in the basin!". Below the banner, a paragraph describes the program's goal: "The U.S. Army Corps of Engineers (Great Lakes Region), in cooperation and coordination with the Great Lakes states, is working to develop sediment transport models for Great Lakes tributaries that discharge to Federal navigation channels or Areas of Concern (AOCs). By supporting state and local measures that will reduce the loading of sediments and pollutants to tributaries, this work is helping to reduce the need for—and costs of—navigation dredging, while promoting actions to delist Great Lakes AOCs." Three green buttons are visible: "Attend training events", "Browse online tools", and "Learn how to use Great Lakes models beyond the basin". A section titled "What's New" lists three items: "Presentations of the 2016 Great Lakes Sedimentation Workshop Now Available! June 29, 2016", "2016 Great Lakes Sedimentation Workshop December 11, 2015", and "New Website for the Great Lakes Tributary Modeling Program!". A "Events" section states "We have no upcoming events currently scheduled. Please check back soon!". The footer includes "Site Map | Contact Us | Site created and maintained by the Great Lakes Commission www.glc.org" and logos for the Great Lakes Commission and the US Army Corps of Engineers.