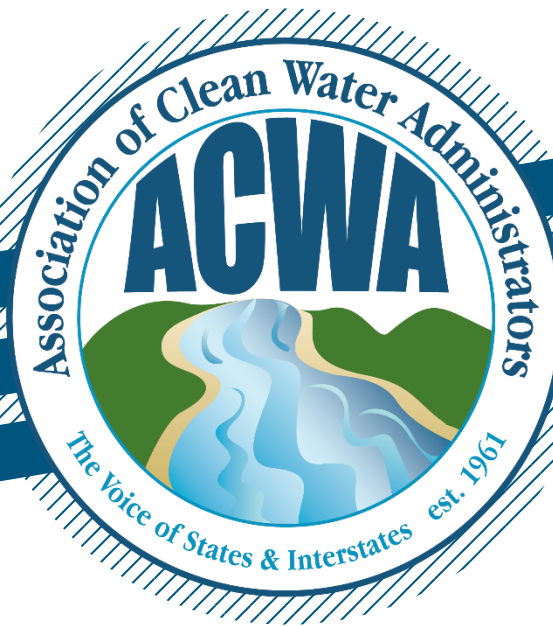


Association of Clean Water Administrators

2023 Modeling Workshop

October 23-27, 2023



This Water Quality Modeling Workshop is a national meeting organized by ACWA, in partnership with USEPA for state program managers and staff involved in water quality modeling, as well as for both Regional and Headquarters-based U.S. Environmental Protection Agency managers and staff.

Modeling for Nutrients

MONDAY, OCTOBER 23

1:00 – 5:00 PM MT	Modeling 101
3:00– 3:30 PM MT	Break

TUESDAY, OCTOBER 24

9:00 – 10:00 AM MT	Welcome/Track Overview
10:00 – 10:15 AM MT	BREAK
10:15 – 12:00 PM MT	Nutrient Modeling Basics – Jason Gildea
12:00 – 1:30 PM MT	Lunch
1:30 – 2:30 PM MT	Best Models for Nutrients – Lake & Watershed Models
2:30–2:45 PM MT	BREAK
2:00 – 3:30 PM MT	Measuring Eutrophication Dynamics to Support Model Implementation
4:30 – 5:00 PM MT	Discussion of Nutrient Modeling Solutions

- 9am-10am - Introductions and Facilitated Discussion
 - Intros. What do you want to know? Issues you want to discuss? Background of audience
- 10:15am - 12pm - Jason - Nutrient modeling basics
- 12pm-1:30pm - Lunch
- 1:30pm-2:30pm - Best Models for Nutrients (Presentation) (EPA team of Jason, Ben, John, Amy, Brandon)
- 2:45pm-4:30pm - Brandon Jarvis (new presentation) - Measuring eutrophication dynamics to support model implementation

WEDNESDAY, OCTOBER 25

9:00 – 10:30 AM MT	Overview of Hydrologic MicroServices (HMS) – John Johnston, EPA
10:30 – 10:45 AM MT	BREAK
10:45 – 12:00 PM MT	Modeling for Numeric Standards The NC Experience – Chlorophyll-a – Pam Behm

12:00 – 1:00 PM MT

Lunch

1:30 – 3:00 PM MT

Modeling Eutrophication and Ecosystem Dynamics: Strategies and Case Studies – Brandon Jarvis, EPA

3:00 – 3:30 PM MT

BREAK

3:30 – 5:00 PM MT

Modeling for Nutrient TMDLs
FL Case Study on Their Process – Ansel Bubel

THURSDAY, OCTOBER 26

9:00 – 10:30 AM MT

Successes and Challenges in Nutrient Modeling in the Pacific Northwest
- Ben Cope

10:30 – 10:45 AM MT

BREAK

10:45 – 12:00 PM MT

Nutrients Policy – Techno-policy
Policy Roundtable & How Modeling Fits In

12:00 – 1:00 PM MT

Lunch

1:00 – 3:00 PM MT

Lessons Learned – Falls Lake - Pam Behm, NC

Utah Lake Watershed and Lake Modeling - Tools for Numeric Nutrient Criteria Development and Implementation- Nick Von Stackelberg, UT

3:00 – 3:30 PM MT

BREAK

3:30 – 5:00 PM MT

Challenges in Starting a Project – Ansel Bubel, FL

Incorporating Climate Change Into Water Quality Models

4:30 – 5:00 PM MT

Nutrients Track Wrap-up

FRIDAY, OCTOBER 27

9:00 – 11:00 AM MT

Workshop Wrap-Up + Next Steps