AQUATOX Training Workshops

This model is being distributed, maintained and actively supported by EPA.

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One-Day Short Course Materials

A one-day short course on AQUATOX was presented as part of the Society of Environmental Toxicology and Chemistry (SETAC) North America 31st Annual Meeting, held November 7-11, 2010 in Portland, OR.

The objective of the short course was to familiarize users of diverse backgrounds with the capabilities of AQUATOX for use in a variety of regulatory settings. The course included comparisons with other dynamic ecosystem models used for risk assessment. Examples of applications covered the impact of nutrient, sediments, and toxic organics on a variety of ponds, lakes, reservoirs, rivers, and an

estuary.

- Slides from Short Course—No Notes <https://epa.gov/hydrowq/aquatox-training-documents>
- Slides from Short Course—With Notes <https://epa.gov/hydrowq/aquatox-training-documents>

Three-Day Training Workshop Materials

Occasionally the US EPA offers a comprehensive three-day course. It is similar in scope to the one-day course except that it covers more aspects of the model in greater depth, with diverse hands-on exercises. Such a course was held on AQUATOX Release 3.1 beta in December 2010, November 2011 at US EPA Region 6 in Dallas, TX, and November 2012 at the Columbia River Intertribal Fish Commission in Portland, OR, respectively. Click here for a course syllabus <https://epa.gov/hydrowq/aquatox-training-documents>. The course materials are available for download:

- What does AQUATOX do? <https://epa.gov/hydrowq/what-does-aquatox-do>
  - Potential applications to water management <https://epa.gov/hydrowq/potential-applications-aquatox>
  - Unique features and operations <https://epa.gov/hydrowq/aquatox-features-and-tools>
- **Training - classes and downloadable presentation materials**
- Frequently Asked Questions <https://epa.gov/hydrowq/aquatox-frequently-asked-questions>
- AQUATOX Email Listserv <https://epa.gov/hydrowq/aquatox-listserv>

- Four daily files
  - AQUATOX workshop day 1 (zip) <https://www.epa.gov/sites/default/files/2014-03/aquatox-workshop-day-1.zip> (49.19 MB) (zipped file) Introduction to model capabilities, modeling plants and animals, potential applications, model calibration and performance
  - AQUATOX workshop day 2 (zip) <https://www.epa.gov/sites/default/files/2014-03/aquatox-workshop-day-2.zip> (91.46 MB) (zipped file) Modeling nutrients and nutrient effects, application in support of water quality management, AQUATOX and BASINS, sediment effects, fate and bioaccumulation of organic chemicals
  - AQUATOX workshop day 2 demo (zip) <https://www.epa.gov/sites/default/files/2014-03/aquatox-workshop-day-2-demo.zip> (64.12 MB) (zipped file) Uncertainty analysis demonstration
  - AQUATOX workshop day 3 (zip) <https://www.epa.gov/sites/default/files/2014-03/aquatox-workshop-day-3.zip> (19.07 MB) (zipped file) Modeling estuaries, toxicity of organic chemicals and inorganic sediments

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The following two labs from the course at CRITFC (CRITFC Labs 6-7) are based on a very informative study and exemplify in-depth analyses of a stream in Oregon with abundant data for multiple years. The lab tracks two bioaccumulative pesticides, one that exceeds the action level in runoff and the other a legacy pesticide that is sequestered in periodically

- Peer Review <https://epa.gov/hydrowq/peer-review-aquatox>
- Publications About or Referencing AQUATOX <https://epa.gov/hydrowq/selected-publications-aquatox>
- AQUATOX Supporting Documentation <https://epa.gov/hydrowq/aquatox-supporting-documentation>
- Modeling Periphyton with AQUATOX <https://epa.gov/hydrowq/modeling-periphyton-aquatox>
- Download the model <https://epa.gov/hydrowq/aquatox-31-download-page>
- Data sources <https://epa.gov/hydrowq/aquatox-data-sources-parameter-values>

scoured sediments. The study is the first application to simulate migration and exposure of anadromous fish (lamprey and chinook salmon). Lab 7 builds on the previous bioaccumulation lab to examine time-dependent lethality, sublethal toxicity exemplified by growth reduction, and indirect effects due to reduction in predation.

- One file for the CRITFC labs
  - CRITFC Labs 6-7 (zip) <https://www.epa.gov/sites/default/files/2014-05/critfc_labs_6-7.zip> (7.5 MB)

Presentation Materials

Aquatox Presentations are available for download.

- Linking Water Quality with Aquatic Life <https://epa.gov/hydrowq/aquatox-sustainable-and-healthy-communities-research-program-webinar-series>A presentation on AQUATOX was made as part of the Sustainable and Healthy Communities Research Program's webinar series.
- The History and Generality of Aquatox, A Robust Mechanistic Model <https://epa.gov/hydrowq/history-and-generality-aquatox>

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