



Managing and Sharing Water Data Using Community Tools
Liza Brazil, Consortium of Universities for the Advancement of Hydrologic Science

Friday, March 22, 2019, 2:20 p.m. – 4:00 p.m.
McKimmon Center Room 4

Workshop Description

This workshop will introduce participants to [CUAHSI Water Data Services](#), including the [HydroShare](#) repository for data and model storage, HydroShare web apps for web-based analysis and modeling, and [HydroClient](#) for discovery of time-series data. Collectively these services comprise a comprehensive web-based hydrologic information system that enables users to share science products, including data, models, model instances, and workflows; and to formally publish the information with a digital object identifier. Participants will receive an introduction to each of these services. Utilization of CUAHSI data services to enable and fulfill funder's data management requirements will be included.

Workshop Agenda:

1. Overview of Data Management (**20 minutes**)
 - The data life cycle
 - Findable, Accessible, Interoperable and Reusable (FAIR) data sharing principles
 - The Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI) and CUAHSI data services.
2. Tools for discovering hydrologic time series data (**15 minutes**)
 - The CUAHSI Time Series Data Access Tool, HydroClient (data.cuahsi.org)
 - HydroClient demonstration and follow along instructions
3. Uploading, sharing and, publishing data with HydroShare (**35 minutes**)
 - Uploading data
 - Providing metadata (Dublin core and content type specific)
 - Organizing content in a logical way
 - Sharing and enabling access to others
 - Permanent publication and getting a digital object identifier (DOI) for your data
 - Creating groups with research teams, student, etc. for collaborating online
 - Using HydroShare apps/tools to work with your data—Jupyter Hub demonstration
4. Hands-on exercise to discover Hurricane Harvey data in HydroShare
5. Hands-on exercise to review an example data management plan that utilizes HydroShare archiving