

# HIS WORKSHOP: SESSION 1B DEMO

## INTRODUCTION

Methods for programmatically acquiring observations data from WaterOneFlow web services may be new to the audience. Therefore, CUAHSI HIS has developed several applications that provide a user-friendly interface for accessing WaterOneFlow. These applications are written for many of the software packages commonly used by hydrologists, including web browsers, Excel, ArcGIS, and MATLAB. This demo will introduce the audience to a few of these applications.

### Links:

All HIS components

<http://his.cuahsi.org/components.html>

## HYDROSEEK

HydroSeek is a data discovery tool that provides integrated federated search capability across multiple data sources (universities and federal agencies) that have WaterOneFlow web services through a single interface. It combines spatial, temporal and thematic aspects of search in order to make it possible to more effectively discover data despite heterogeneity issues among data repositories. It allows data discovery using keywords from an ontology which maps variables as defined by each data source to higher level searchable concepts. In short, HydroSeek is designed to provide a one-stop search center in which a user can query for specific data groups across a large data inventory regardless of the storage and description conventions used by the respective warehouses.

### Links:

HydroSeek

<http://his.cuahsi.org/hydroseek.html>

### Procedure:

In this demo, the user queries for nutrient data in Corpus Christi Bay (South) with Hydroseek. The user demonstrates intellisense-style variable searches, and the identification of specific instances of a variable across observation networks.

1. Open a web browser.
2. Navigate to <http://www.hydroseek.net/search/>.
3. For keyword, type **Nutrients**.
4. Change watershed to **Corpus Christi Bay (South)**.
5. Press ENTER.
6. Show variables on the right.

7. Hover mouse and see details to show three different networks.
8. Add data to cart.
9. Change the keyword to **Streamflow**, and press ENTER.
10. Add a couple sites to the cart.
11. Show data cart.
12. Download cart.