HydroDesktop: Free Software for Hydrologic Data Search & Discovery

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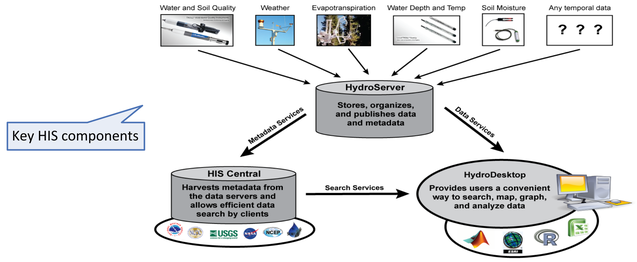
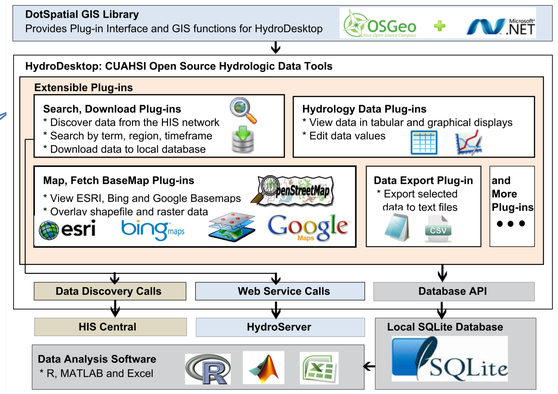
Introduction

The **CUAHSI Hydrologic Information System** (HIS) is an internet-based system for sharing hydrologic data. It is comprised of data servers and client software for data publication, sharing, visualization and analysis (http://his.cuahsi.org/).

HydroDesktop is a freely available and open source tool for accessing data from CUAHSI-HIS and for time series analysis and hydrologic modeling (http://hydrodesktop.codeplex.com/).

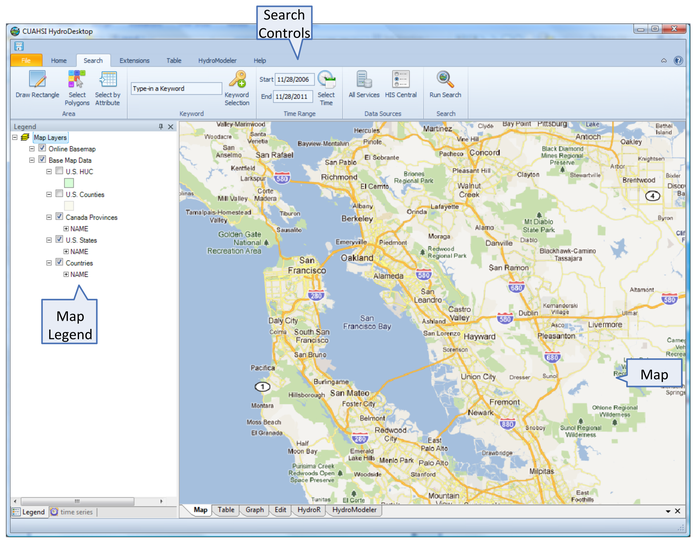


Software Design

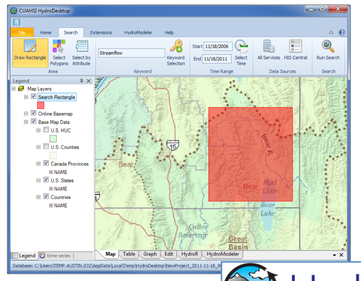


HydroDesktop design and relationship to other HIS components

Graphical User Interface



Search Data

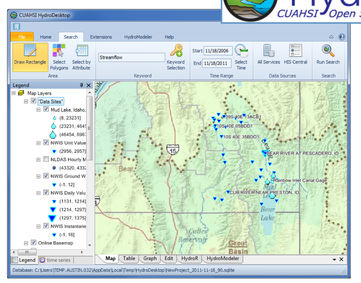


The HydroDesktop search tab includes options for specifying:

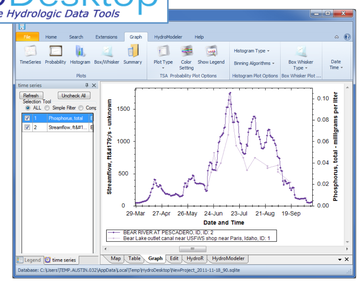
- Search location
- Keyword
- Date range
- Web services (optional)

Where What When

HydroDesktop
CUAHSI Open Source Hydrologic Data Tools

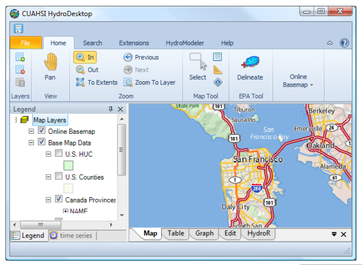


Locations of streamflow time series matching the search parameters



Graph of streamflow and phosphorus concentration data downloaded from HIS using HydroDesktop

GIS Functions



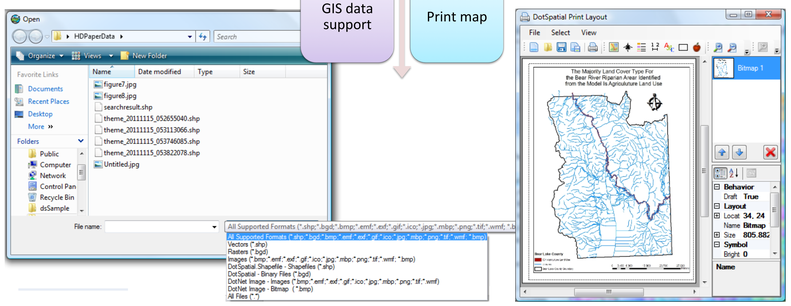
• View basemap WMS layers including: Bing, ESRI, OpenStreetMap, Google, Yahoo, and others.

• Overlay vector and raster datasets.

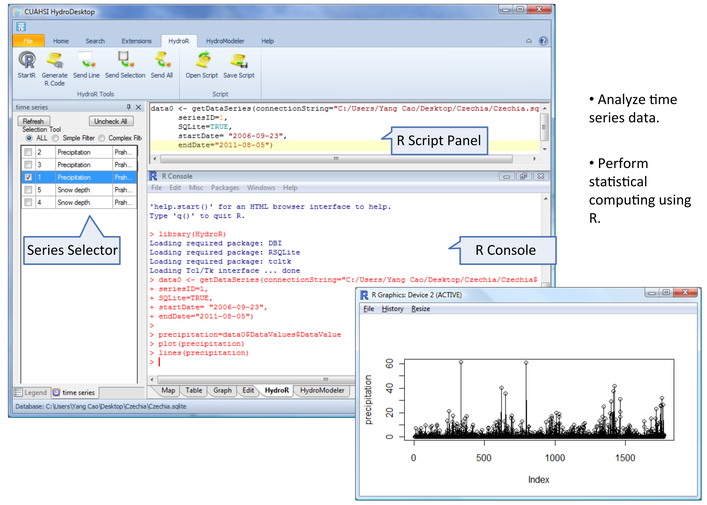
Map View | Cartographic Symbology | GIS data support | Print map

• Use advanced cartographic symbol settings.

• Export data and create print layouts.



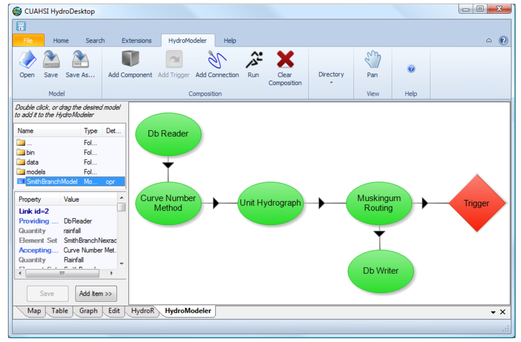
Statistical Analysis



• Analyze time series data.

• Perform statistical computing using R.

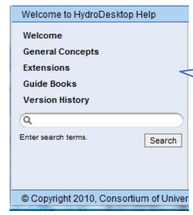
Hydrologic Modeling



• Build hydrologic models by linking OpenMI components.

• Get model input data and analyze model results in HydroDesktop.

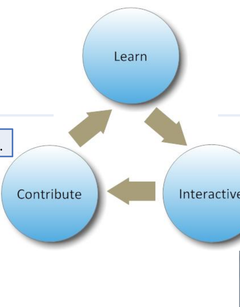
Explore More



View software documentation

Attend HIS workshops sponsored by CUAHSI.

Share your plug-ins and fix bugs.



Report bugs and discuss ideas at **hydrodesktop.codeplex.com**.