

Carbonate CZ-RCN Potential Data Processing Tools

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Potentially Helpful Python Codes and Packages/Data Processing Tools for Hydrogeologists:

- **CUAHSI Time Series Viewer App:** Enables users to visualize HIS referenced resources and data series discovered using HydroClient:
 - [Time Series Viewer App Link](#)
- **CUAHSI HydroClient:** Discover time series data by specifying a geographic extent, concept variable(s), and published services from the CUAHSI catalog:
 - [HydroClient Link](#)
- **CyberGIS-Jupyter for Water:** Simplify access to advanced cyberGIS and cyberinfrastructure capabilities through Jupyter Notebooks:
 - [CyberGIS-Jupyter for Water Hydroshare Link](#)
- **PyHydroQC:** Python script designed to detect anomalies and correct for time series water sensor data:
 - [PyHydroQC Github](#)
- **HydroDS:** Data processing web-based service for hydrological data processing:
 - [HydroDS Github](#)
- **Air Temperature Analysis using CUAHSI HIS:** Example of how CUAHSI Jupyter Hub can be used for basic hydrologic data analysis:
 - [Hydroshare Link](#)
- **Machine Learning based Streamflow Prediction:**
 - [Hydroshare Link](#)
- **National Water Model scripts to download and read streamflow:** Download the National Water Model products from Hydroshare THREDDS data server:
 - [script_NWM_dl_thredds.py Script Hydroshare](#)
- **Python script for comparing National Water Model output with observed data:**
 - [Hydroshare Link](#)
- **Example combining CO Precip data using Hydroshare Python Notebook Server:** National CZO Network Data Product Precipitation
 - [Hydroshare Link](#)
- **Cave airflow and calcite dissolution rates:** Matt Covington
 - [Data and Source Code Hydroshare Link](#)