Water Resources Mission Area Integrated Data & Tools Catalog

The WMA does not have an internal or public catalog of datasets, compatible tools, and example use cases to share and discover resources in use or in development by WMA projects. As a result, data management coordination between active projects, and public dissemination of data, tools, and workflow resources is handled through ad-hoc means that requires a large investment of time, includes redundancy and may be challenging to maintained in the long run.

FY22

concept of the catalog developed, static visual only

purpose: socialize idea

FY23

simple web interface, collection of csvs

purpose: users could interact, projects contribute content as example, faciliatate discussion as tool for planning

FY24

web form, data validation and public endpoint

purpose: improve entry into catalog, realistic view of what the catalog could become, prototype to green light efforts of scalet

WHAT IS THE CATALOG?

The catalog is a place to share and discover the **data and tools** that projects in **WMA** are **developing or using as inputs to their project work**. This information is stored in one cohesive information base that can be **searched and filtered** to serve a variety of **data management and project planning** needs.

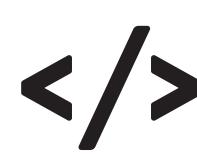
The catalog is comprised of three resource types:



Datasets observed and modeled data



Tools software and workflows



Use Cases

demonstrations of how to use the datasets and tools in the catalog

WHAT CAN YOU DO WITH THE CATALOG?

The catalog can be used to



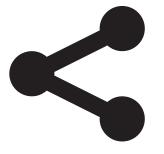
Discover new assests to be used for project work



Share new information products



Promote better data management



Increase coordination among WMA projects

Some examples of the types of questions you could ask of the catalog (once fully operational) include

Which precipitation datasets are available for the years 1950-2000 with a spatial resolution of 4km?

What tools are available to help me perform spatial aggregation to HUC12 units?

Where can I get access to the gridMET dataset?

Which other projects are already using the same climate forcing dataset that my project is using?

CURRENT STATE

7

248

Project's Sample Inventory

Datasets

35

39

Tools/Services

Use Cases

Internal view: includes project information and in-dev products

Public end point: includes only information about released science

products

No formal process or governance

FUTURE STATE

- Flexible content management system that real time updates and validates as entries into the catalog are made by users
- Just enough features developed to provide the right information to scientists and managers
- Fulfills most data management plan requirements
- A lightweight process for entry and governance
- All project data/tools/etc exist in catalog



We want to hear from the larger community of modelers and managers about what functionality we should prioritize implementing in future versions. We welcome ideas to improve usability and integration of the site and its contents through the feedback