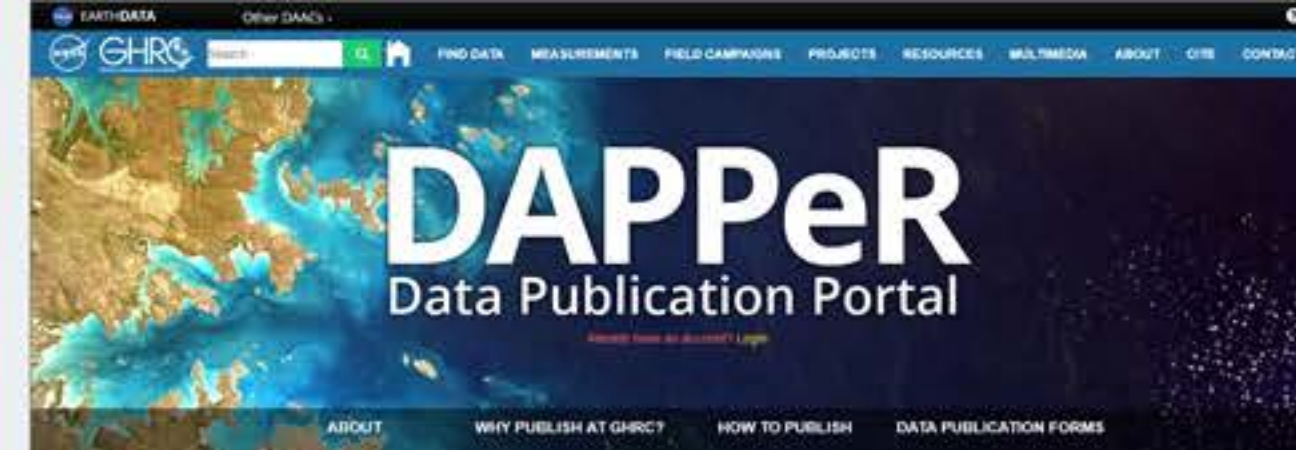


USING GHRC'S DATA PUBLICATION WORKFLOW PORTAL TO IMPROVE DATA DISCOVERY

Leigh Sinclair¹, Ajinkya Kulkarni¹, Abdelhak Marouane¹, Deborah Smith¹, and Manil Maskey²

¹The University of Alabama in Huntsville, ²NASA Marshall Space Flight Center

- ➔ The mission of the Global Hydrology Resource Center (GHRC) Distributed Active Archive Center (DAAC) is to provide an archive of both data and knowledge service with a focus on hazardous weather, its governing dynamical and physical process, and associated applications
- ➔ Data Publication Portal (DAPPeR) is based off of ORNL DAAC's SAuS
- ➔ DAPPeR is an online tool that allows for data producers to interact with the Data Management Group (DMG) at GHRC
- ➔ The portal interface contains access to two required documents for data submission
 - Archival interest form
 - Allows a data producer to provide basic information about their dataset to the DMG team
 - Data product questionnaire
 - Data producers provide all important metadata and information to DMG for dataset publication
- ➔ Behind the scenes, the Data Product Submission Portal is used by the DMG to push a data set through the data publication process
- ➔ A data producer can use the tool to monitor the status of their data set



Archival Interest Form

PUBLICATION
STEP 1: COMPLETE THE DATA PRODUCT ARCHIVAL INTEREST FORM

Items with a * are *not* required

Please provide a title for your data product:

Who is the Principal Investigator for the funded project that led to this data product?
If there are more than one, please list only the first of the list. Later forms will allow for Co-Investigator entry. Please do not use surnames.

First Name *

Last Name *

Last or Family Name *

Email of the primary contact person for this data product or Principal Investigator *

What organization was funded to produce this data product?
This will need to be the organization associated with the Principal Investigator. Please provide the full name, not acronym, and include the department, if needed.

Please provide a description of the data product:
Include information such as instrument parameters, product coverage and resolution, relevance to NASA or GHRC.

What is the total size of your data product in MB or GB (whichever is more appropriate)?
Please include units with your answer.

What is the main contribution of this data product to science?
Include any pertinent references you would like us to consider.

Describe the user communities that are likely to use your data product.
Provide information such as anticipated number of users, how often they might access the data, and publication needs of the community.

What datasets at the GHRC might your data relate to?
Other GHRC data can be seen at [DAAC's Data Catalog](#). If you do not know, enter "unknown".

Do you have any restrictions on the use of your data product?
Are the data being available to everyone? Select an answer.

Is your data product complete or incomplete?
For reference, will the product continue to be produced after we receive it via DAPPeR? Please select one response from the dropdown.

What is the time period of the dataset from first measurement to last?
Give a range in GMT or include time zone information.

How would you describe the maturity of your data product?
Please select from the dropdown. Refer to the following NASA document for help determining maturity values: [https://www.nasa.gov/pdf/201401main-nasa-data-maturity-values-140114main](#)

What code is in the image?
Enter the characters shown in the image.

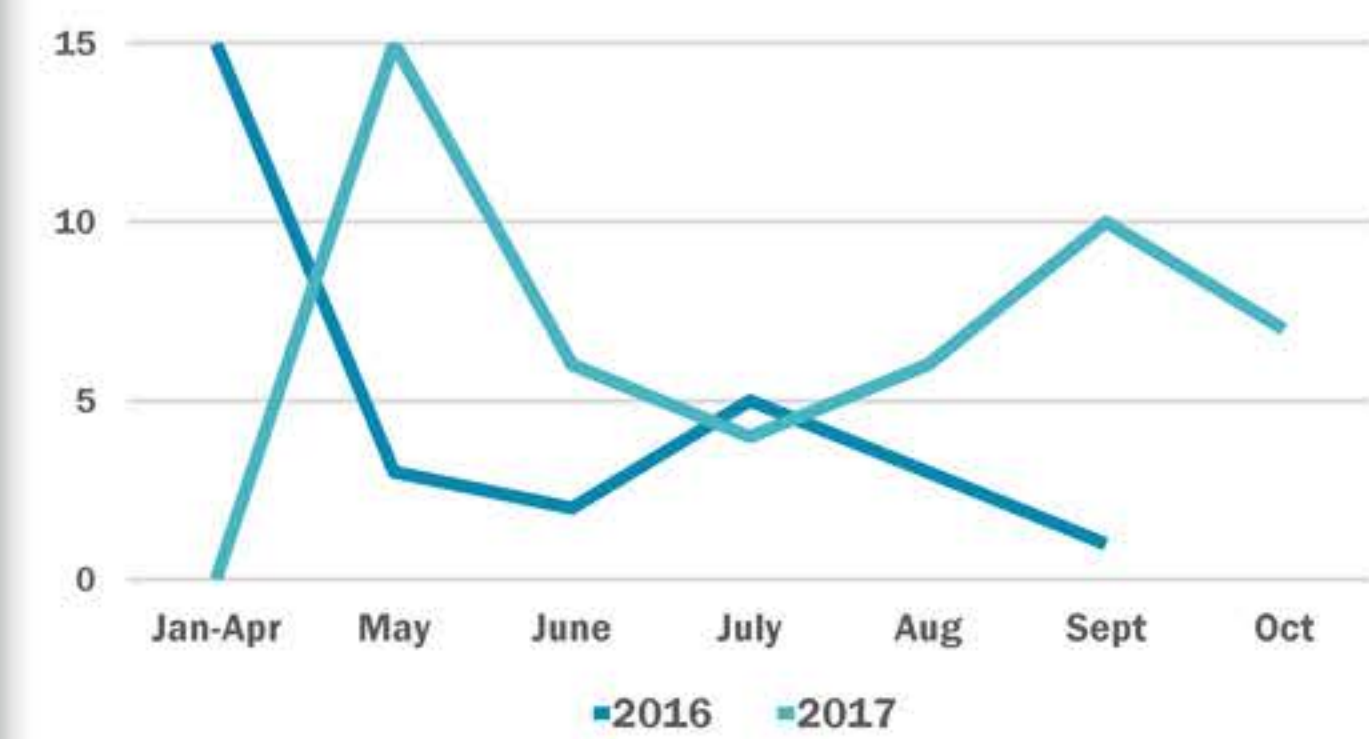
Revision information for review

Revision log message
Briefly describe the changes you have made.

Save Process

IMPROVEMENTS UTILIZING DAPPER

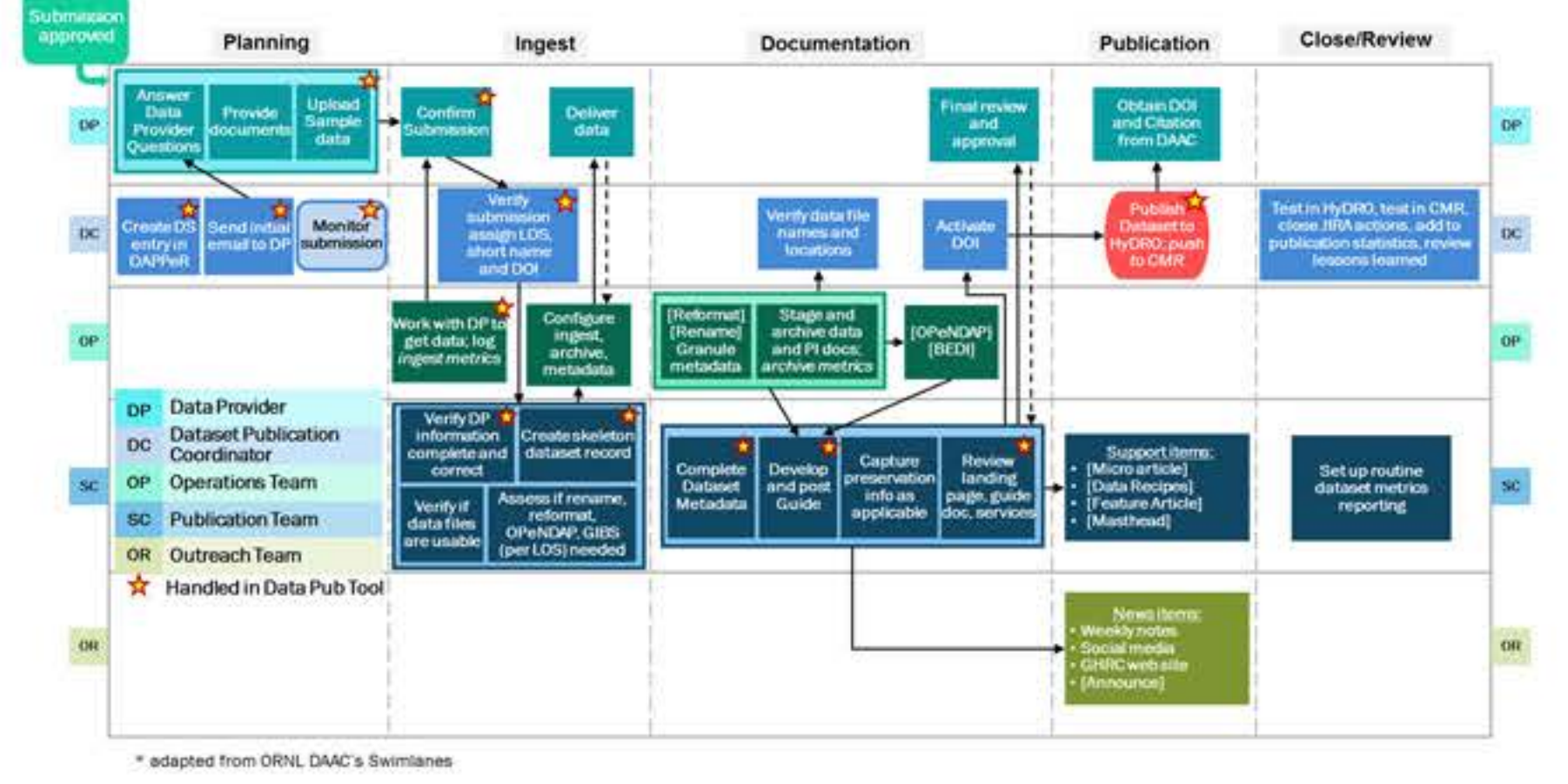
- ➔ Integrating the semi-automated data publication workflow has improved:
 - Efficiency of data publications
 - Speed of data publications
- ➔ Progress has been made on publishing datasets already delivered to the GHRC
- ➔ Focus has been on first publishing the highest level of service datasets
 - ISS LIS Near-Real Time and Non-Quality Controlled
 - Global Precipitation Measurement (GPM) Ground Validation Olympic Mountains Experiment (OLYMPEX) >50% of OLYMPEX campaign has been published
 - All Hurricane and Severe Storm Sentinel (HS3) core datasets are now published



FUTURE PLANS FOR DAPPER

- ➔ Next steps
 - Fully automating the workflow
 - Automating email notifications
 - Creating dataset specific email addresses
 - Provide detailed metric collections
- ➔ Use DAPPeR to record effort and time required for each dataset publication
 - Average time from start of effort to publication
 - Average time from ingest of dataset to publication
 - Average time for PI questionnaire completion
 - Average time per each step of publication
 - Analyses by year, quarter, or month
 - Summary information on email communications, such as how many datasets required extra contact for publication

GHRC DATA PUBLICATION SWIMLANES



This work was performed at the NASA GHRC DAAC, a partnership between NASA MSFC and UAH, sponsored by the NASA Earth Science Data and Information System (ESDIS) project.

QR code linking to DAPPeR website: <https://ghrc.nsstc.nasa.gov/data-publication/>



Navigation menu: ABOUT, DATA, PROJECTS, MEASUREMENTS, RESOURCES

Footer: NASA Official, Social Media icons, ITSC, UAH logos, and various policy links.

Contact information: ghrc.nsstc.nasa.gov, support-ghrc@earthdata.nasa.gov, [@ghrc.nsstc](https://www.facebook.com/ghrc.nsstc), [@GHRCDAAC](https://twitter.com/GHRCDAAC), www.linkedin.com/groups/7069041

Vertical CONTACT banner on the right side.