



Earthdata Pub (EDPub)

Taylor Wright



- **Why EDPub?**

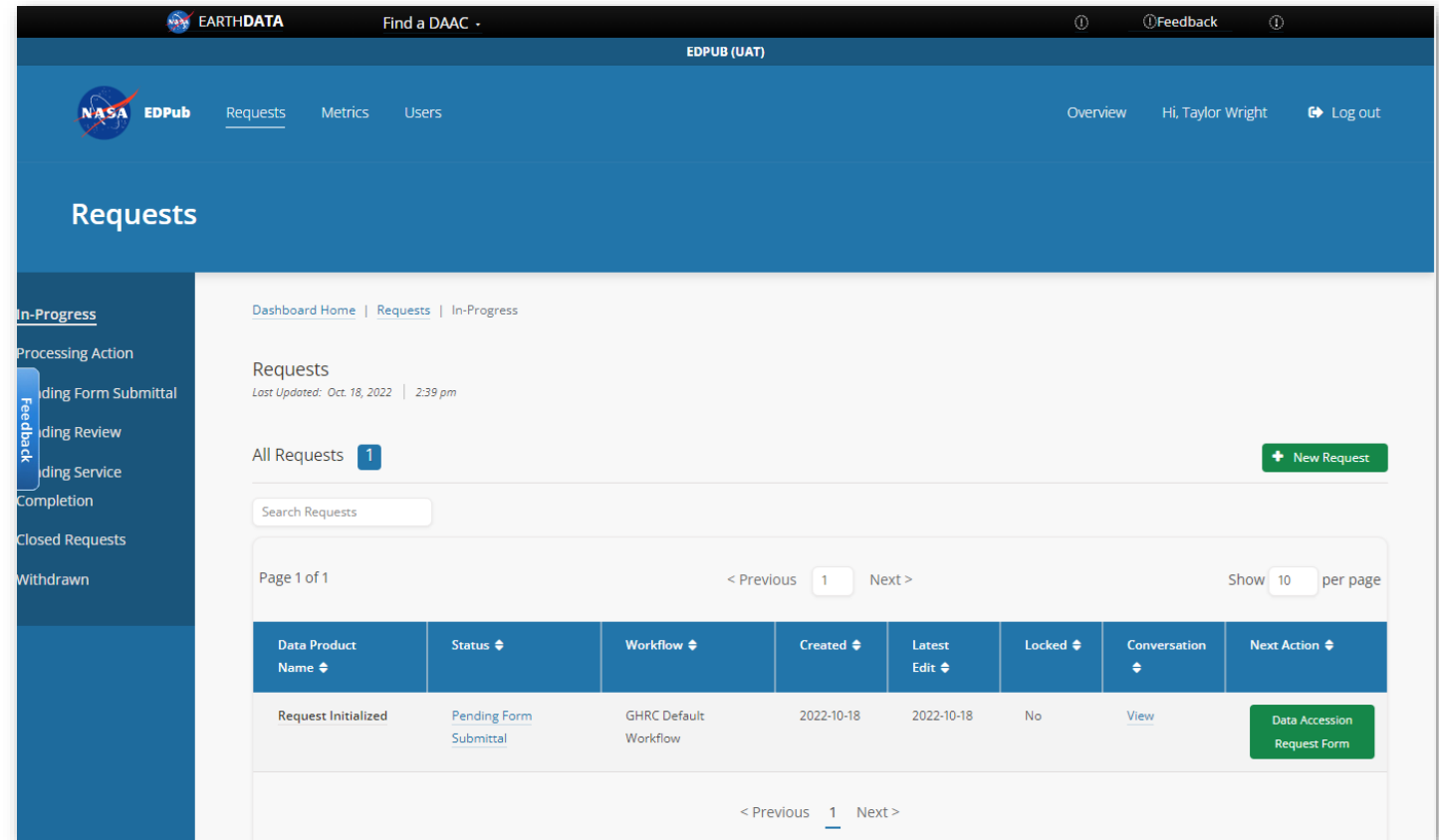
- Each NASA DAAC is dealing with an increasingly diverse number of publishable data products from diverse data producers.
- Data producers face the challenge of diverse data publication processes when interacting with the DAACs to deliver their datasets and data product information.
- EDPub addresses the both challenges by providing a common user interface to create a **more consistent and streamlined data publication experience** across EOSDIS. The EDPub front-end applications – Forms, Dashboard, and Overview – enable DAACs and data producers to **communicate more easily** about in-queue data products, gather the information needed, and **reduce the overall time required** to approve and publish data products.

- **Cross-DAAC Collaboration**

EDPub Development Team	EDPub Information Team
<p>Project Management</p> <ul style="list-style-type: none">• Doug Newman (NASA/ESDIS)• Justin Rice (NASA/ESDIS)• Will Ellett (GHRC) <p>Facilitator</p> <ul style="list-style-type: none">• Taylor Wright (GHRC) <p>Developers</p> <ul style="list-style-type: none">• Daine Wright (ORNL)• Kimberly Broughton (ORNL)• Eddie Campos (GHRC)• Davis Gaunt (GHRC) <p>UI/UX Specialist (FY22)</p> <ul style="list-style-type: none">• Juanisa McCoy (EED)	<p>Team Leadership</p> <ul style="list-style-type: none">• Amanda Leon (NSIDC)• Elisabeth Huffer (ASDC) <p>Team Membership</p> <ul style="list-style-type: none">• Participants from seven+ DAACs, including Leigh Sinclair (GHRC) <p>In addition to creating/revising content for the forms, dashboard, and overview pages, the EDPub Information Team serves as a key user testing group.</p>

- **Data Producers Can ...**

- Formally request the accession of data products at a DAAC or DAACs
- Provide information for data products that are approved for publication
- Communicate with DAAC data management teams through conversations in the requests dashboard
- Monitor the status of their accession and publication requests



The screenshot shows the EDPUB (UAT) Requests dashboard. The top navigation bar includes 'EARTHDATA', 'Find a DAAC -', and 'Feedback'. The main header features the NASA EDPUB logo and navigation links for 'Requests', 'Metrics', and 'Users'. The user is identified as 'Hi, Taylor Wright' with a 'Log out' option. The 'Requests' section is active, showing a sidebar with categories like 'In-Progress', 'Processing Action', 'Pending Form Submittal', 'Pending Review', 'Pending Service Completion', 'Closed Requests', and 'Withdrawn'. The main content area displays 'Requests' with a 'Last Updated' timestamp of 'Oct. 18, 2022 | 2:39 pm'. A 'New Request' button is visible. Below is a search bar and pagination controls showing 'Page 1 of 1' and 'Show 10 per page'. A table lists the request details:

Data Product Name	Status	Workflow	Created	Latest Edit	Locked	Conversation	Next Action
Request Initialized	Pending Form Submittal	GHRC Default Workflow	2022-10-18	2022-10-18	No	View	Data Accession Request Form

Forms

Data Accession Request

Form Data

Short Name	data_accession_reque
Name	Data Accession Reque
Description	This form is used to g dataset, typically this provider or an appro
Version	1
Created	2021-09-16

Questions

Contact Information

Primary Data Producer
Who is the primary person responsible for the collection or creation of the data product?

First and Last Name:	Tim Jones
Organization:	NASA
Email:	tim.jones@nasa.gov
ORCID:	no answer

Data Accession Point of Contact
Who should the DAAC contact with questions regarding this Data Accession Request?

First and Last Name:	Tim Jones
Organization:	NASA
Email:	tim.jones@nasa.gov
ORCID:	no answer

Data Format
What is the format(s) of the files in this data product?

ASCII:	no answer
GeoTIFF:	no answer
HDF 5:	no answer
HDF-EOS 5:	no answer
OGC KML:	no answer
NetCDF-4:	true
NetCDF Classic:	no answer
Other:	no answer
If Other, please provide the data format(s):	no answer

Data Product Volume
What is the estimated or actual total volume of this data product?

Response:	20
Response:	GB

Data File Compression
Is internal compression applied to the data files in this data product?

Response:	No
-----------	----

Number of Data Files
What is the estimated or actual total number of files in this data product?

Response:	99
-----------	----

Sample Data File(s)
Please provide a URL to a sample file(s).

Response:	no answer
-----------	-----------

Browse Images
Will browse images representing the data be provided as part of this data product?

Response:	no answer
Additional information about browse images:	no answer

[Return](#) [Approve](#)

• DAACs Can ...

- Use defined custom workflows and develop custom modules to meet DAAC-specific requirements
- Use a metadata editor of preference
- Formally review/approve data accession and publication requests
- Communicate with data producers through conversations in the requests dashboard
- Verify information for data products that are approved for publication (i.e. metadata, sample files, documentation, etc.)

FY22 Highlights



1st Quarter (Oct. - Dec. 2021)

ESDIS Review Gate

- The ESDIS Review Gate for EDPub was successfully completed on Dec. 8, 2021, which verified the ability and preparedness to move toward production readiness for EDPub.

Organized User Testing Responses

- The EDPub Development and Information Teams collated and prioritized testing feedback and improvement requests.

2nd Quarter (Jan. - Mar. 2022)

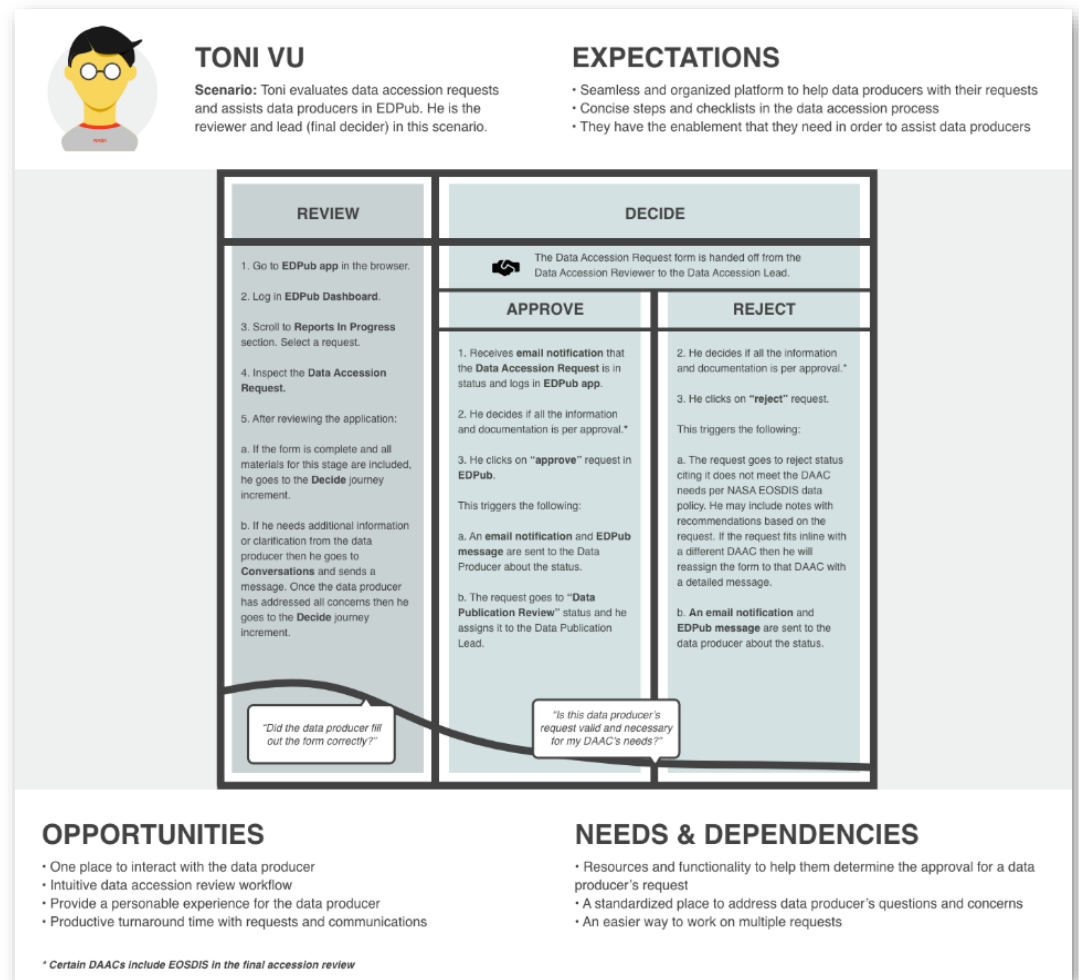
EDPub MVP Release

- The Minimum Viable Product (MVP) version of EDPub was released in March 2022. All supplementary paperwork was submitted for the EDPub open source software release package, which is in review at GSFC for EDPub's eventual inclusion in the NASA Open Source Catalog.

2nd Quarter (Jan. - Mar. 2022)

UI/UX Evaluation

- A UI/UX assessment of EDPub was conducted in early 2022 to distill recommendations for EDPub usability and for consistency within Earthdata.
- Outputs of the evaluation included user journey assets, recommended user-facing changes in the dashboard and forms, and UX improvements for content and documentation.



3rd Quarter (Apr. - Jun. 2022)

Established the Onboarding Pathway / DAACs Began EDPub Investigation

- The EDPub Development Team began holding bi-weekly office hours to study and fulfill DAAC workflow requirements, beginning with GHRC as pathfinder, followed by ORNL and ASDC. This format ensures a feedback cycle to discover and document improvement requests.

Began Revising Overview Content

- The EDPub Development Team designed information architecture changes and content updates for EDPub Overview pages, with guidance and feedback from the EDPub Information Team.

Began EDPub-mEditor Integration

- mEditor is GES DISC's metadata editor, which is used in GHRC's initial default data publication workflow in EDPub.

4th Quarter (Jul. - Sep. 2022)

DAAC Workflow Setup and Testing

- EDPub-mEditor integration was completed so that metadata in EDPub can be submitted to CMR.
- GHRC and ORNL default custom workflows were created.
- ASDC requirements were discussed, and EDPub developers began setting up the ASDC default custom workflow.
- Public access in EDPub UAT has enabled workflow testing for various user roles and DAAC-based user groups.
 - [UAT User Account Request Form](#)
 - [EDPub UAT Dashboard](#)

Next Steps

Oct. - Dec. 2022

- Ability to edit EDPub metadata using the Metadata Management Tool (MMT) and publish to CMR
 - Manual upload/import of EDPub metadata into MMT
- Implement planned changes to the EDPub Overview pages with further review by the EDPub Information Team
- Full integration of the Notification System in EDPub
- Prototype user displays of customized workflows

Jan. - Mar. 2023

- Ability to edit EDPub metadata using the Metadata Management Tool (MMT) and publish to CMR
 - EDPub-MMT Integration
- Revise EDPub Open Source Governance documentation (2022-2023)
- Prototype Cognito + Multi-Factor Authentication (MFA) for documentation upload in EDPub

April 2023 +

- Begin onboarding PO.DAAC in ~July 2023
- Begin onboarding NSIDC in TBD quarter of 2023

- **EDPub Wiki Documentation:**
 - [EDPub Home](#)
 - [EDPub Support](#)
 - [Accessing EDPub](#) - Includes instructions to receive a UAT user account
 - [EDPub UX Resources](#)
- **EDPub UAT Dashboard: <https://pub.uat.earthdata.nasa.gov>**



THANK YOU!

QUESTIONS?

