Earthdata Pub (EDPub)

Leigh Sinclair

EDPub Refresher

- **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 wen interacting with the DAACs to deliver their datasets and data product information.
  - EDPub addresses these 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.

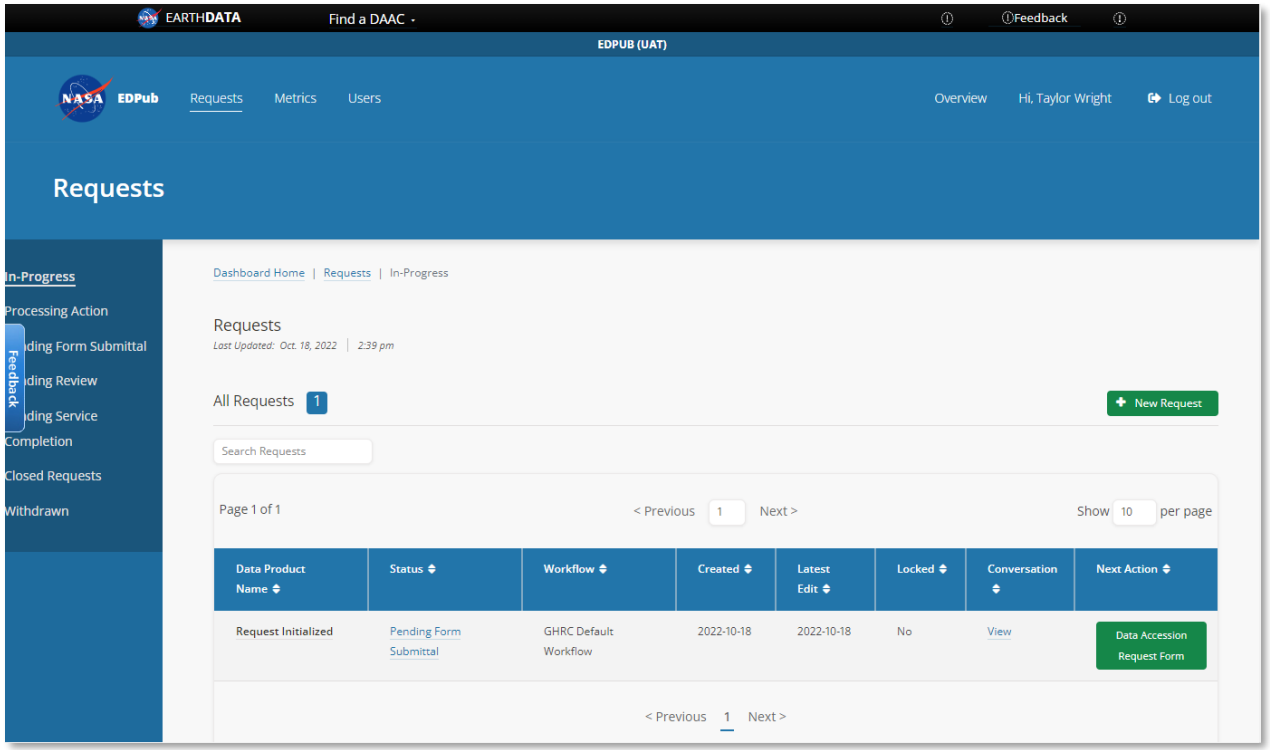
EDPub Refresher

- **Cross-DAAC Collaboration**

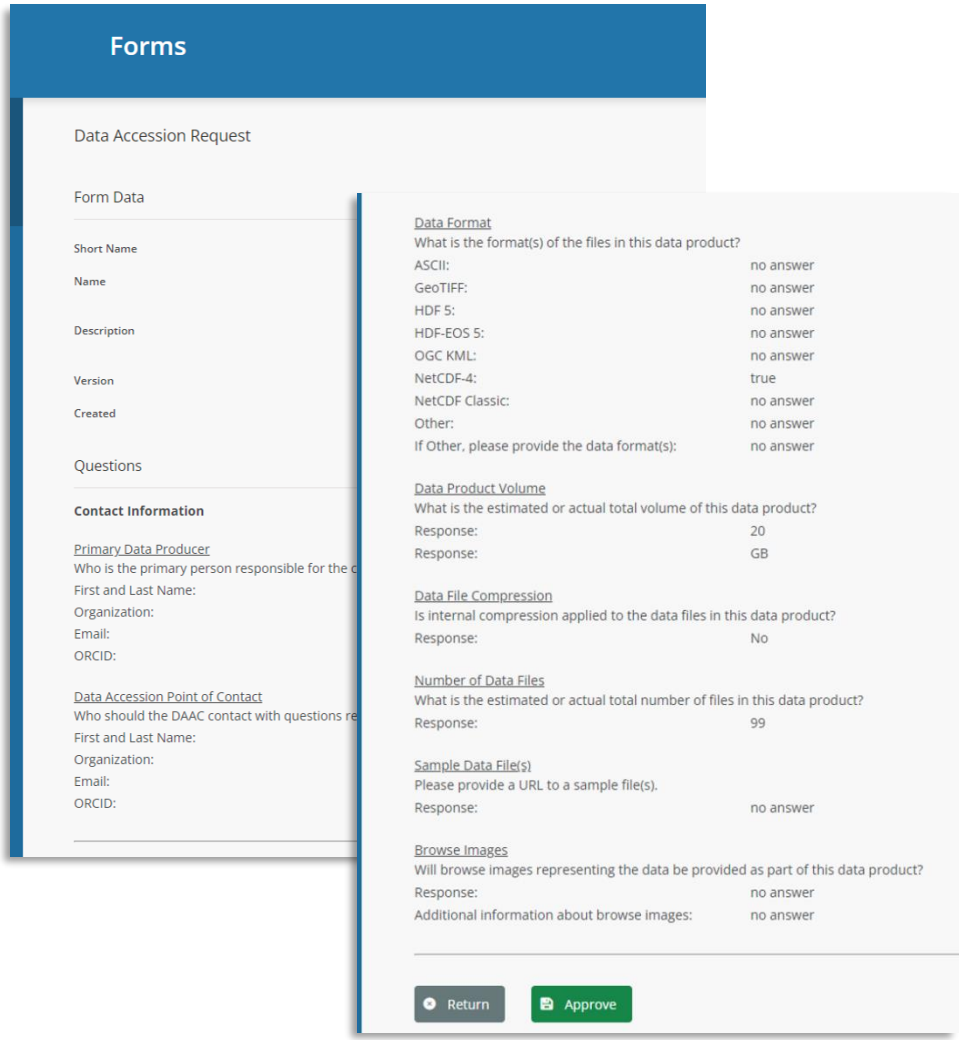
EDPub Development Team	EDPub Information Team
Project Management • Doug Newman (NASA/ESDIS) • Will Ellett (GHRC) **Facilitator** • Leigh Sinclair (GHRC) **Developers** • Daine Wright (ORNL)* • Kimberly Broughton (ORNL) • Chelsey Stahl (ORNL) • Eddie Campos (GHRC) • Davis Gaunt (GHRC)	**Team Leadership** • Matt Donovan (ORNL) **Team Membership** • Participants from seven+ DAACs, including Leigh Sinclair (GHRC) In addition to creating/revising content for the forms, dashboard, and overview pages, the EDPub Information Team serves as a key user testing group.

EDPub Refresher

- **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 request dashboard
  - Monitor the status of their access and publication request
  - Upload sample data and documentation



EDPub Refresher



- **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 request dashboard
  - Verify information for data products that are approved for publication
    - Metadata, sample files, documentation, etc.

FY23 Highlights

All Quarters

DAAC Onboarding Support

- Support DAAC onboarding to EDPub so that DAACs are comfortable with EDPub functionality
- Related (1st Quarter only): Prototype user display of customized workflows so that interested users can test in the UAT environment
- Currently 4 DAACs in stages of onboarding or using their EDPub workflows in production - GHRC, ORNL, ASDC, GES DISC
- Office Hours conducted bi-weekly
- Matt Donovan joined as a content lead to bridge dev and info teams
- Daine preparing to offboard / new DAAC team members preparing to support EDPub

FY23 Highlights

1st Quarter (Oct. – Dec. 2022)

Manual Import of Metadata from EDPub to MMT

- Import EDPub metadata in MMT so that ASDC can begin testing collection level metadata publication to CMR from EDPub

EDPub Overview Updates / Web Info Architecture Improvements

- Update Overview page content in EDPub so that external users can clearly understand EDPub functions and purpose
- Update EDPub website information architecture and content so that readers understand the distinction between EDPub the application and EOSDIS publication guidelines

Notification System Work

- Ensure Notification System is fully integrated into EDPub so that users are notified of changes in EDPub without having to constantly monitor the dashboard
- Ensure the EDPub Notification System handles expected email usage in production and allows control over the EDPub email templates

FY23 Highlights

2nd Quarter (Jan. – Mar. 2023)

EDPub Overview Updates / Web Info Architecture Improvements

- Iterated changes between the EDPub Development Team and the EDPub Information Group

Continued Notification System Work

- Ensure Notification System is fully integrated into EDPub so that users are notified of changes in EDPub without having to constantly monitor the dashboard
- Ensure the EDPub Notification System handles expected email usage in production and allows control over the EDPub email templates

Data Upload Solution

- Decide on a data upload solution that allows trusted partners and collaborators to upload files, requiring Cognito+MFA with 3rd party authenticator, so that Security team can evaluate and make recommendations
- Integrate single file data upload solution into EDPub so that data producers can provide sample files and documentation to DAAC staff

FY23 Highlights

3rd Quarter (Apr. – Jun. 2023)

EDPub Overview Updates / Web Info Architecture Improvements

- Completed changes and published changes to Production

Continued Notification System Work

- Ensure Notification System is fully integrated into EDPub so that users are notified of changes in EDPub without having to constantly monitor the dashboard
- Ensure the EDPub Notification System handles expected email usage in production and allows control over the EDPub email templates

Continued Data Upload Solution

- Decide on a data upload solution that allows trusted partners and collaborators to upload files, requiring Cognito+MFA with 3rd party authenticator, so that Security team can evaluate and make recommendations
- Integrate single file data upload solution into EDPub so that data producers can provide sample files and documentation to DAAC staff

DAAC Module Creation

- Supported GHRC user guide upload module

FY23 Highlights

4th Quarter (Jul. – Oct. 2023)

Continued Notification System Work

- Ensure Notification System is fully integrated into EDPub so that users are notified of changes in EDPub without having to constantly monitor the dashboard
- Ensure the EDPub Notification System handles expected email usage in production and allows control over the EDPub email templates

Data Upload Solution - Related

- Collaborated with the CUE Group - Trade Study: Scalable On-Demand Anti-Virus service for newly uploaded S3 objects

Continued DAAC Module Creation

- Supported GHRC user guide upload module

Security/Other

- Update the EDPub CAAP in order to properly distribute funding for FY24
- Update EDPub OSA to meet latest IT Security Requirements

Next Steps

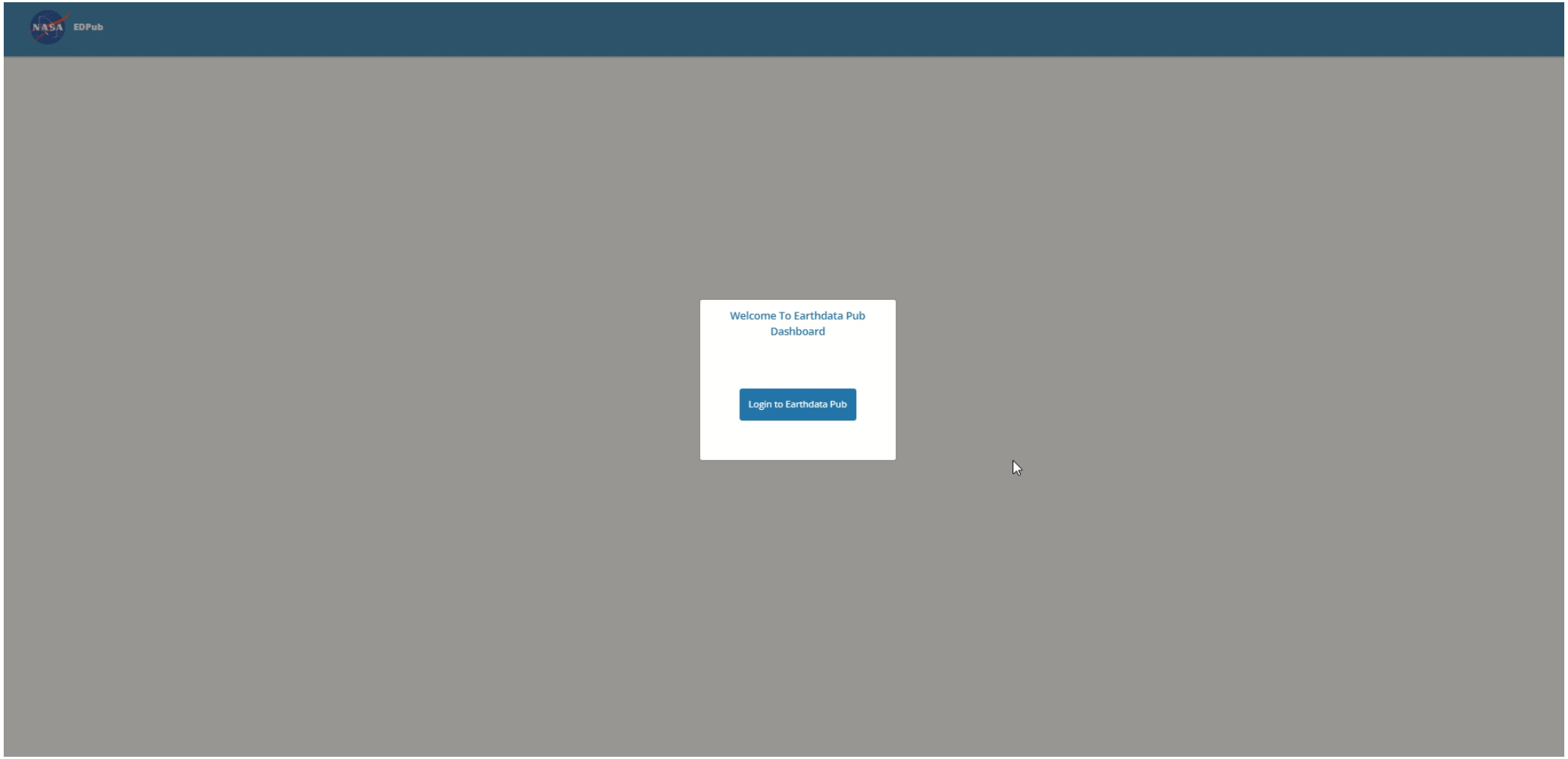
- **Continue Onboarding DAACs**
  - NSIDC
  - PO DAAC
  - LP DAAC
  - Possibly more later in the year
- **Implement metrics on the dashboard**
  - Number of DAACs using EDPub
  - Number of datasets published by EDPub
  - Time to publish each dataset
- **Move single file upload to Production**
- **Complete notification system**
- **Support existing DAACs who have onboarded**
- **Support DAACs creating modules for their respective publication workflow**

Resources

- **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

DEMO

[Earthdata Pub Dashboard PROD]



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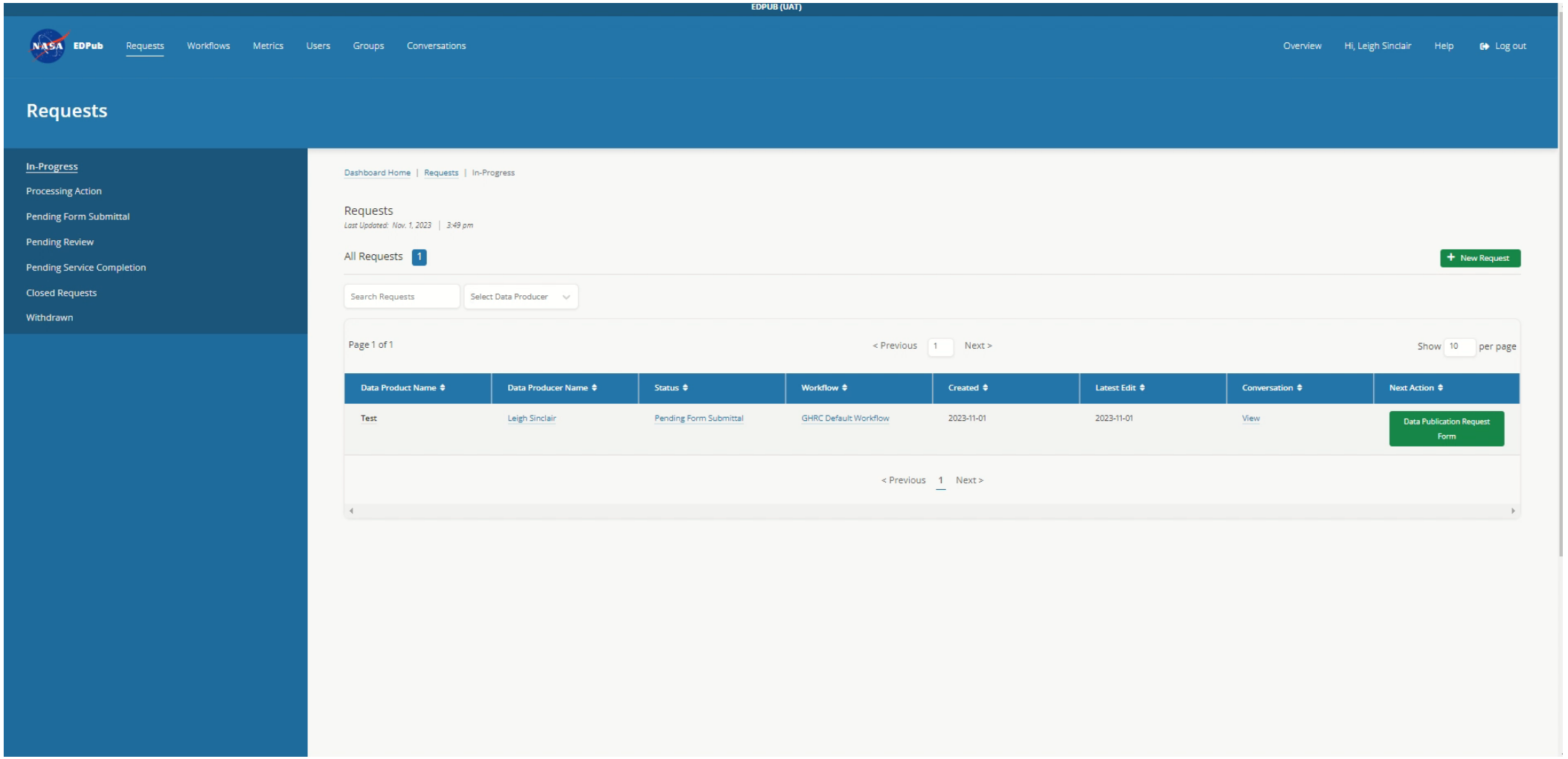
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Metrics
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Conversations
Overview
Hi, Leigh Sinclair
Help
Log out
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Processing Action
Pending Form Submittal
Pending Review
Pending Service Completion
Closed Requests
Withdrawn
Dashboard Home | Requests | In-Progress
Requests
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New Request
Search Requests
Select Data Producer
Page 1 of 1
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Show 10 per page
Data Product Name
Data Producer Name
Status
Workflow
Created
Latest Edit
Conversation
Next Action
Test
Leigh Sinclair
Pending Form Submittal
GHRC Default Workflow
2023-11-01
2023-11-01
View
Data Publication Request Form
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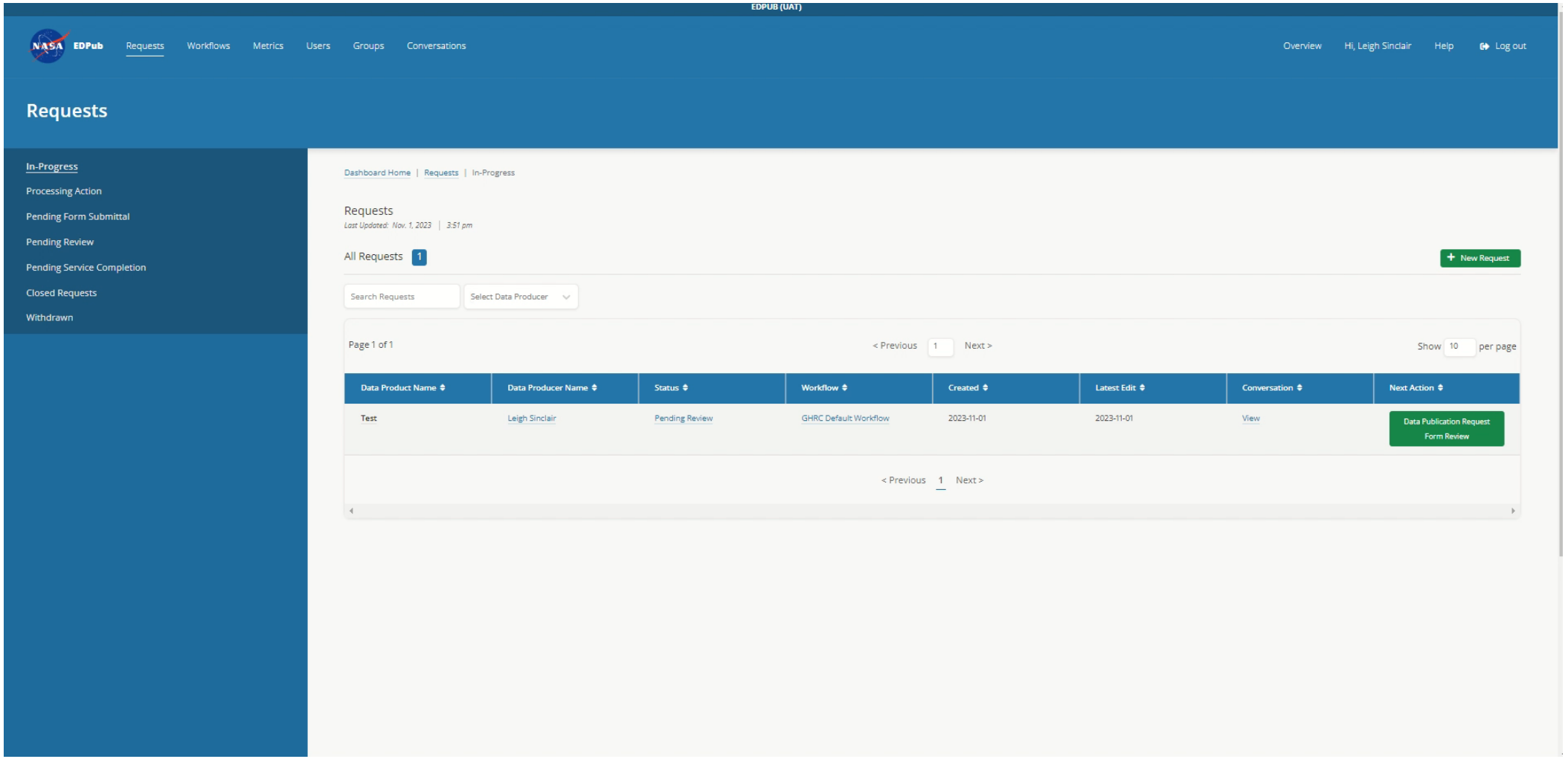
DEMO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Last Updated: Nov. 1, 2023 | 3:51 pm
All Requests 1
New Request
Search Requests
Select Data Producer
Page 1 of 1
< Previous 1 Next >
Show 10 per page
Data Product Name
Data Producer Name
Status
Workflow
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Conversation
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GHRC
Global Hydrometeorology Resource Center

THANK YOU!

QUESTIONS?

THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

NASA

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