Cumulus: NASA Archives in the Cloud

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BACKGROUND:
DAACS IN THE CLOUD
Why DAACs in the Cloud?
Science Archives in the Cloud

- Fixity
- Provenance
- Stewardship
- Simple Access
- Backup & Recovery
- Metrics
CUMULUS: NASA ARCHIVES IN THE CLOUD
What Is Cumulus?

Cumulus allows DAACs to ingest, archive, manage, and distribute data products, all within the cloud. Cumulus is designed to be extensible and configurable, providing support for all DAACs while maximizing reuse and shareability.
Flexible, Configurable
Flexible, Configurable
Free and Open Access

Check us out on github!

https://github.com/cumulus-nasa
WHAT IT MEANS FOR USERS
The Same, Only Better

Discovery

https://... Direct Download

W*S  GIBS  OPeNDAP

Services

Direct S3 Access
Direct S3 Access?

But what about unbounded egress?

How does this tie back to Earthdata Login?
Direct S3 Access!

Science User Or Service

Credentia Dispenser

Earthdata Login (OAuth)

Read-Only In-Region Access Keys

Direct S3 Access

Science User Or Service

Read-Only In-Region Access Keys

Science Data
QUESTIONS?
Thank You!

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