LP DAAC Brief

Tom Maiersperger, LP DAAC Project Scientist

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Access & Distribution Metrics

Datasets: All MODIS & VIIRS Land


Total Volume Distributed
1,688 TB

Total Volume Accessed
4,505 TB

- AppEEARS Access (2,853 TB)
- AppEEARS Distribution (36 TB)
- All Other Distribution (1,652 TB)
Cloud Migration (per Katie Baynes, ESDIS)

Bottom Line Up Front

NASA Earth Science Data Systems is working towards a cloud-first data archive future and is migrating existing data products to a cloud-based data lake.
Cloud Migration (per Katie Baynes, ESDIS)

Key Takeaways

We have been developing and testing our cloud-based platforms for ingest and archive since 2016. Including in operational scenarios.

Data access will continue to be FREE.

You WILL NOT be required to have an AWS account.

Based on current and predicted system load and growth and historic performance, access speed will not change.*

Level of service will not change; prior to going fully operational, DAACs will be ensuring parallel functionality.

*This includes some multipliers of wiggle room
Cloud Migration

• So far, LP DAAC has been in capacity building mode
  – Getting the cloud architecture working
  – Limited variety of datasets (HLS, ASTER GDEM, a few MODIS)
  – Nothing public

• Major business goals for LP DAAC going forward
  – All holdings migrated to cloud
    – On-prem ECS architecture is deprecated
  – Maintain a non-cloud stewardship archive
    – On-prem at a federal facility
  – Continuity of services
    – Access, science communications, user support, data management