



PO.DAAC - Plans for SWOT Data Access

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Physical Oceanography Distributed Active Archive Center (PO. DAAC)

<https://podaac.jpl.nasa.gov/>



Process

Archive

Distribute



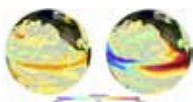
DAACs ingest, archive, process and distribute data to users

Missions & Projects

Seasat, TOPEX/Poseidon, Jason-1, NSCAT, SeaWinds on ADEOS-II, QuikSCAT, GRACE, GHRSS, MEaSUREs, Aquarius, SPURS, ISS-RapidScat, AirSWOT, OMG, CYGNSS, GRACE-FO (2018), Jason-CS/Sentinel-6 (2020), SWOT (2021)

Parameters

Gravity
 Ocean Circulation & Currents
 Ocean Surface Salinity
 Ocean Surface Topography
 Ocean Vector Winds
 Sea Surface Temperature
 Hydrology



Tools

Discover

Visualize

Access

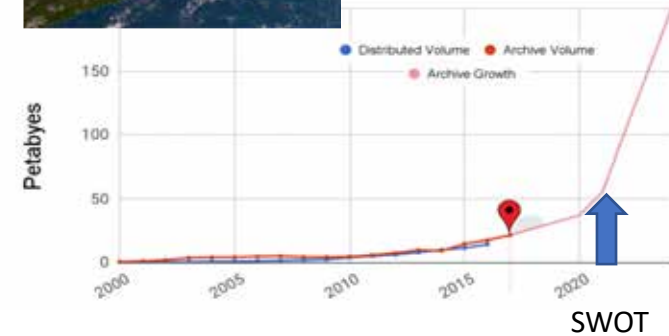
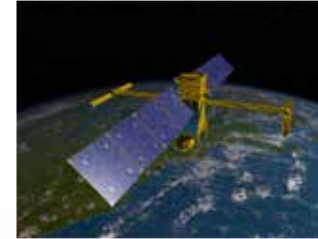
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12,500
unique data
products

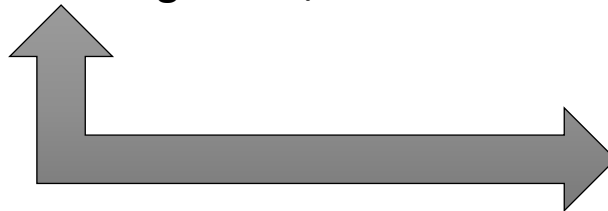
Over
330,000
users

EOSDIS currently has
over 24 Petabytes of
Earth science data



PO.DAAC Evolution

- Prepare for planned high-data-rate
- Improve the efficiency of NASA's data systems operations
- Increase access to data without the need for data management/movement

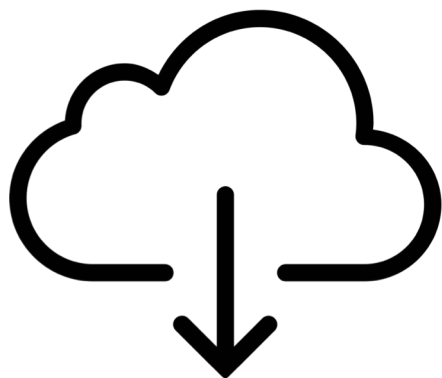


Engagement

- Define specific Discovery, Search and Access requirements
- Provide feedback and guidance to engineers and developers
- Test services
- Support new and existing user communities

Survey to collect Take the Survey (it's still open): <http://tinyurl.com/swotsurvey2>

Results are presented on poster



Map user needs to Cloud Development:

- 58% of users are ready to learn how to move to the cloud
- Data users want DAAC to remove barriers of data management (e.g., consistent time, space, format, etc.)
- Users want easy-access interface to the DAAC

Data access

- **1 year prior to launch:** Support current data access patterns out of the cloud (“download and analyze”)
- **8 months after launch:** Support data access and analyze patterns in the cloud (“login and analyze”)

Support for SWOT

- Progress users from the current state (i.e., a download paradigm) to a future data archive on the cloud
- Citation and DOI for data products
- Metrics on usage of data products
- Manuscript associated dataset publication process
- Tools (GIS/Modelling/Applications etc.)