Earth Science Data from NASA Earthdata

Earthdata is a centralized source for NASA Earth Observing System Data and Information System (EOSDIS) components, capabilities and services.

Earth Science Data from 12 Data Centers
Bringing together historical, current and near real-time Earth Science data from the Earth Observing System (EOS), aircraft, field measurements and various other programs from the 12 Discipline oriented Distributed Active Archive Centers (DAACs) and Science Investigator led Processing Systems (SIPS).

Accessing Data and Data Services
Data from the 12 DAACs can be discovered via Reverb (https://reverb.echo.nasa.gov), the EOS Clearinghouse (ECHO) (https://earthdata.nasa.gov/echo), the Global Change Master Directory (GCMD) (http://gcmd.nasa.gov) as well as the individual data centers themselves. Tools and services for using and manipulating data are available from Earthdata and the data centers.

Earthdata Services
Earthdata provides a centralized User Registration System (URS), Earth Science data metrics collection system (ESDIS Metrics System - EMS) and a user support/feedback system (User Support Tool – UST and Feedback module), for all Earthdata components and DAACs who wish to utilize these services.

A revamped top level menu system (Top Hat) can be integrated on all of the DAAC websites and it provides links to data discovery, data centers, community, science disciplines and a search function that searches all Earthdata and DAAC websites.

Fostering Collaboration
Earthdata hosts collaboration tools to encourage collaboration within the Earth Science community. Collaboration tools include: the Earthdata Code Collaborative (ECC) and the Earthdata Collaboration Environment (ECE).

Earthdata Code Collaborative (ECC)
A platform for testing, hosting, deployment and discovery of Earthdata related applications and services.
https://earthdata.nasa.gov/ecc

Earthdata Collaboration Environment (ECE)
A wiki web application that encourages content collaboration especially for groups such as the Earth Science Data System Working Groups (ESDSWG).
https://wiki.earthdata.nasa.gov

Future Areas of Growth for Earthdata
- Reorganize and revamp Earthdata website to improve contextual access to datasets and related information. The current site is a facelift and an intermediate solution implemented in Dec 2013. Improvements will include:
  - Database driven, faceted listings of data and information to improve cross referencing of related information.
  - Federated content capability across the DAACs.
- Single sign on access using the User Registration System (URS) for all Earthdata components.
- A Common Metadata Repository (CMR), which will be the metadata source for all EOSDIS data.
- A demonstration client, Earthdata Search, with inputs from CMR, GIIBS and others, to provide robust search capabilities.

https://earthdata.nasa.gov