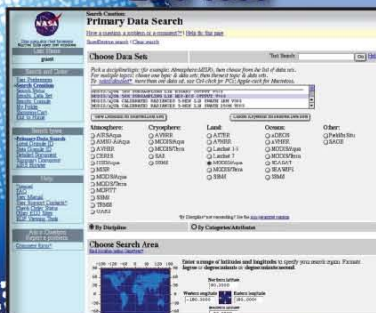




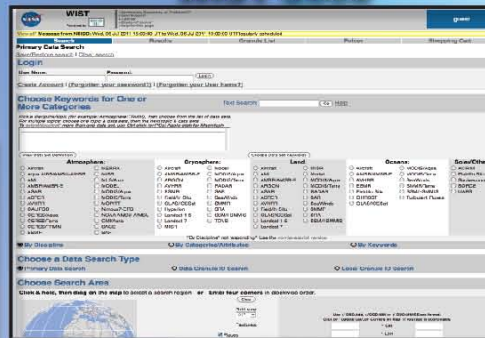
EOSDIS Data Discovery Evolution

WIST 2008

EDG 1980



- The Earth Observing Systems (EOS) Data Gateway (EDG) was the extension of Version 0 Information Management System (IMS).
- Communicated with V0 servers hosted at EOSDIS DAACs via a basic protocol (known as the Version 0 protocol) that consisted of a set of requests constructed in Object Description Language (ODL).
- Utilized a federated search client/server system, with multiple EDG clients, or WWW interfaces, allowing users to find and order data from multiple participating archives.
- Served as the primary access point to EOSDIS and other Earth science data holdings until the EDG-to-WIST transition.



- The Warehouse Inventory Search Tool (WIST) consolidated the EDG user interface into a single application instance.
- Communicates with the Earth Observing System (EOS) ClearingHouse (ECHO) web services via a legacy SOAP API.
- Provides centralized search and order capabilities across the full set of data provider holdings in the ECHO catalogue through a consolidated client deployment.
- Users are able to submit cross-discipline queries using spatial and temporal criteria, examine search results for relevancy using built-in tools, and submit orders via ECHO to the appropriate data provider(s).
- Additional Features Available in WIST:
 - 2D Coordinate Searching (e.g. WRS-2)
 - Enhanced order capabilities allowing for customized order options
 - Order status tracking
- Serving as one of the primary access points to EOSDIS and other Earth science data holdings until the WIST-to-Reverb transition.

Reverb 2011



- Reverb takes existing WIST functionality and provides them in an enhanced user experience.
- Communicates with Earth Observing System (EOS) ClearingHouse (ECHO) web services via a new REST API.
- Continues to support cross-discipline data discovery and order creation.
- Developed and tested with modern technologies to improve the quality and testability of the underlying code, along with allowing for a more modern user interface.
- Additional features not available in WIST:
 - Enhanced User Experience – Users are able to download their data in no more than 3 page transitions.
 - Enhanced Data Discovery – Users are able to discover additional datasets that may enhance their research via text keywords and specific metadata fields.
 - Integrated Data & Service Discovery and Invocation – Users are able to discover and invoke services associated with their data of interest.
 - Bulk Data Downloading – Users are able to perform a bulk download of online available data.
- Reverb planned to replace WIST as the primary access points to EOSDIS and other Earth science data holdings by 2012.

<http://reverb.echo.nasa.gov/reverb>

Website: <http://www.echo.nasa.gov>

Authors: Matthew Cechini (Matthew.F.Cechini@nasa.gov)

Andy Mitchell (Andrew.E.Mitchell@nasa.gov)