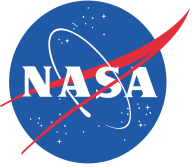


# NASA Contributions to the Big Earth Data Initiative (BEDI)



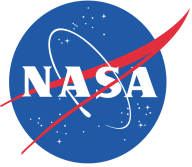
**Chris Lynnes and Jeff Walter**  
**NASA Goddard Space Flight Center**  
**ESIP Summer 2015 Meeting**  
**July 14, 2015**





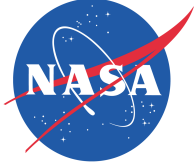
# Big Earth Data Initiative

- U.S. federal government is the largest holder of civil earth observation data in the world
  - Data is sometimes difficult for the non-expert user to discover, access, and use
- White House Office of Science and Technology Policy: Improve earth observation data
  - Discoverability
  - Accessibility
  - Usability
- Big Earth Data Initiative (BEDI):
  - Interoperability of EO data and systems among US federal agencies
  - Discoverability, accessibility, and usability of earth observation data
  - Earth observation data management practices



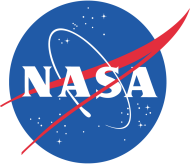
# NASA's BEDI Strategy

- Focus on the “enabling” current pieces
  - Vs. end-user applications or new data products.
- Drive toward open, community-driven standards
  - data formats
  - Interfaces
  - Protocols
- Design BEDI activities to produce outputs that are also useful to other U.S. Federal agencies
- Leverage current plans to accelerate progress



# NASA's BEDI Implementation

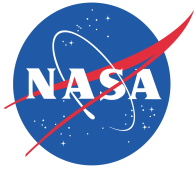
- Support for USGEO Data Management Working Group
- Web Services for Direct Data Access
  - OPeNDAP and Webification (w10n-sci)
  - Global Imagery Browse System
  - Support for Open Geospatial Consortium et al.
- Catalog and Data Discovery Improvements
  - Metadata Guidance + Recommendations
  - Digital Object Identifier Best Practices + Recommendations
  - Data Discovery via Commercial Search Engines
  - Support for Project Open Data
  - Metadata and Data Services Improvements at the DAACs



# OPeNDAP Improvements

- Support for other protocols
  - W10n-sci
  - Web Map Service
  - Web Coverage Service
- Performance of Multi-granule Aggregation
- Build + install + Documentation
- User registration





# Global Imagery Browse Service

- Supports
  - WMTS
  - KML
  - Tiled WMS
- Add EOSDIS data sets
- Make source code publicly available

