EarthExplorer (EE)

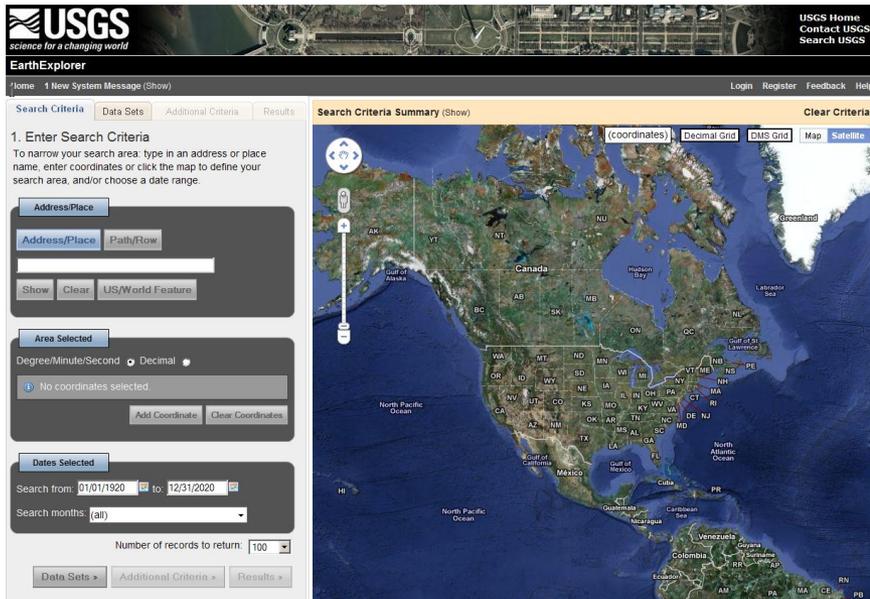## Land Remote Sensing Data Access Workshop
March 13-14, 2012

EarthExplorer

- **Overview**

- **Available Data**

- **Features and Functions**

- **Use Cases (Handouts)**
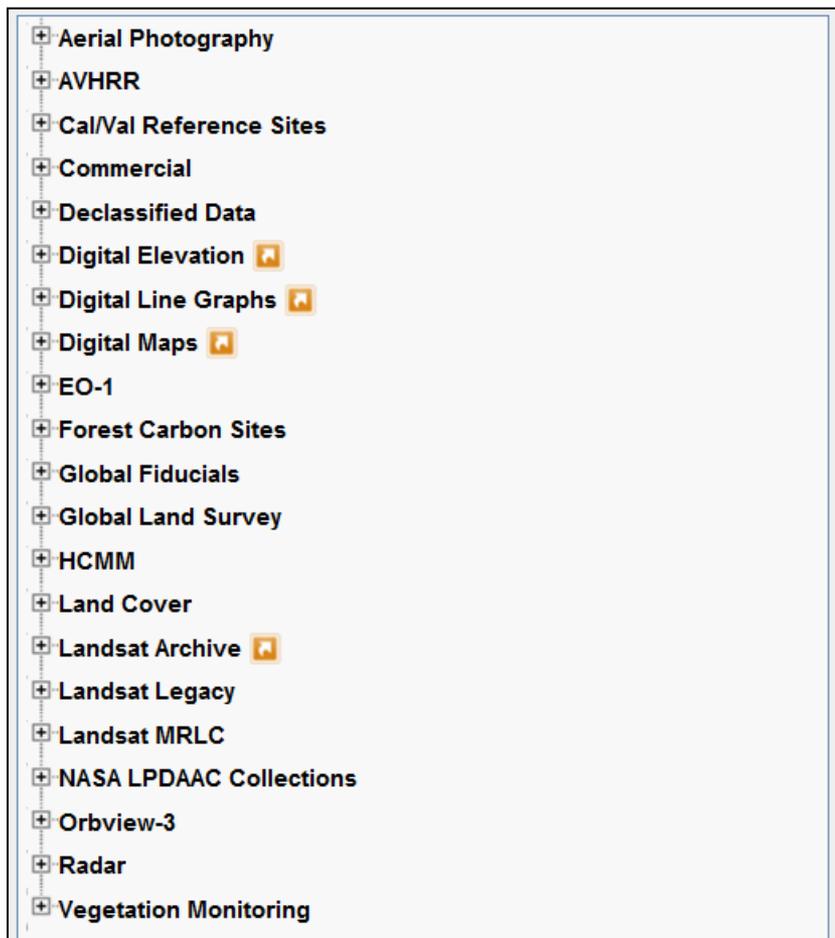
- **Feedback (Handout)**

EarthExplorer Overview

EarthExplorer was developed by USGS EROS. LP DAAC data sets appear in EE via USGS EROS and LP DAAC collaboration.

EarthExplorer (earthexplorer.usgs.gov)

provides online search, browse display, data download, and exports of metadata to support scientists and users with access to earth science data from the archives of the U.S. Geological Survey (USGS).

EarthExplorer Data Availability

- Aerial Photography
- AVHRR
- Cal/Val Reference Sites
- Commercial
- Declassified Data
- Digital Elevation
- Digital Line Graphs
- Digital Maps
- EO-1
- Forest Carbon Sites
- Global Fiducials
- Global Land Survey
- HCMM
- Land Cover
- Landsat Archive
- Landsat Legacy
- Landsat MRLC
- NASA LPDAAC Collections
- Orbview-3
- Radar
- Vegetation Monitoring

NASA LP DAAC

- All MODIS land data
- ASTER
  - Global DEM
  - NAALSED
  - L1B U.S. & Territories

USGS EROS

- Landsat
- E0-1
- AVHRR
- Digital Elevation
- Aerial photography
- Radar
- Orbview 3
- More

≋USGS

NASA

EarthExplorer Features and Functions

- **Many data sets available**

- **Spatial query by point, polygon, Landsat path/row, gazetteer**

- **Temporal query includes seasonal criteria**

- **Data set per-filters (by time, space)**

- **Data set specific filters (e.g., cloud cover)**

≋**USGS**

NASA

EarthExplorer Features and Functions, cont'd

- **Display footprints and browse from search results as map viewer overlays**

- **Control overlay opacity**

- **Save or export queries, results, and map overlay for reuse**

- **Keyhole Markup Language (KML) export capability to interface with Google Earth**

- **Access to browse images, metadata, and product documentation**

≋USGS

EarthExplorer Features and Functions, cont'd

- **User authentication service for access to specialized datasets and tools**

- **Standard product downloads**

- **Request on-demand products**

- **User notifications of new acquisitions and available products through subscription services**

EarthExplorer Use Case 1

REGISTER FOR AN ACCOUNT AND VIEW PROFILE INFORMATION

EarthExplorer Use Case 2

OBTAIN ASTER L1B AND LANDSAT 7 DATA OVER THE U.S. FOR A TIME AND PLACE

EarthExplorer Use Case 3

SEARCH FOR MODIS DATA AND CREATE A SUBSCRIPTION FOR FUTURE ACQUISITIONS

EarthExplorer Feedback

- **Tell us what you think! Your opinions and comments are very important. We do appreciate your taking the time to fill out our form.**