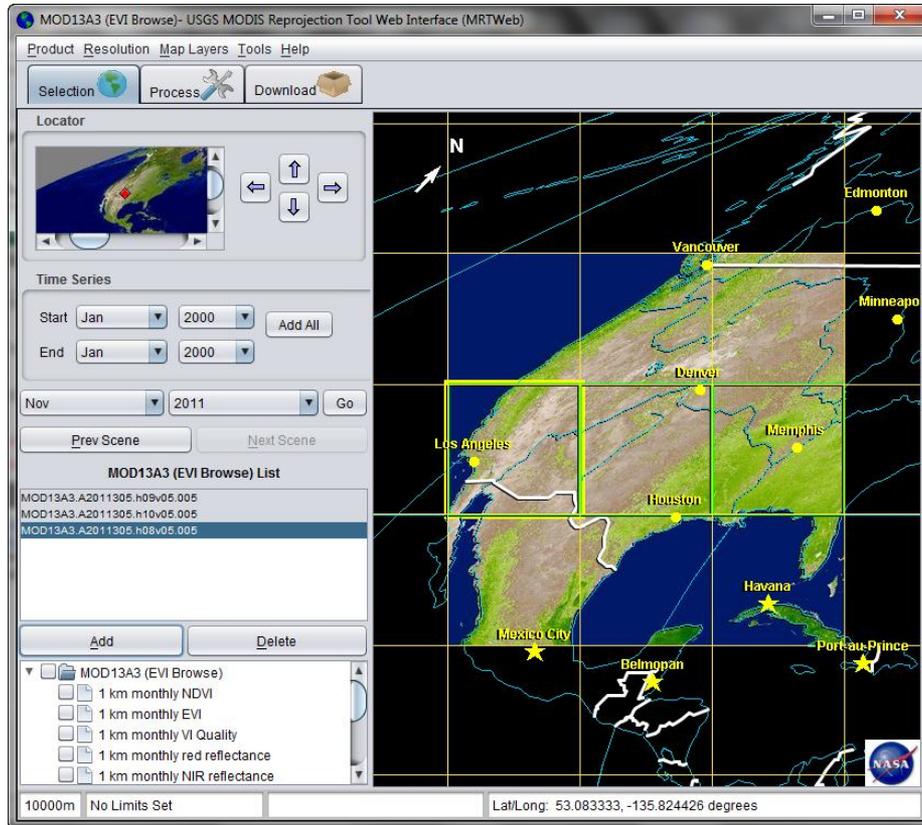

MODIS Reprojection Tool on the Web (MRTWeb)

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

MRTweb

- **Overview**
- **Available Data**
- **Features and Functions**
- **Use Cases (Handouts)**
- **Feedback (Handout)**

MRTWeb Overview



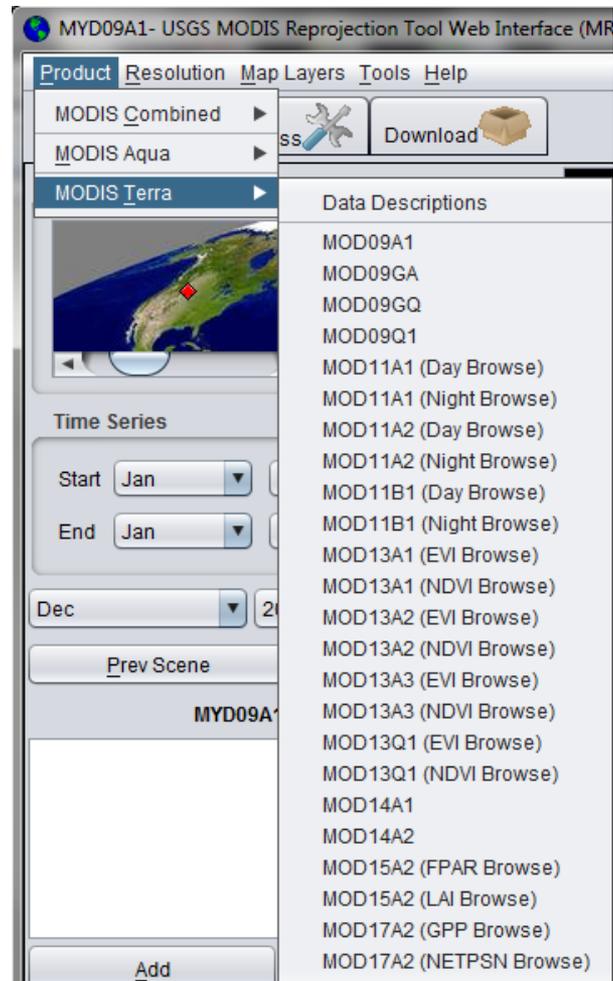
MRTWeb

(mrtweb.cr.usgs.gov)

MRTWeb combines familiar capabilities of the USGS Global Visualization Viewer (GloVis) and the MODIS Reprojection Tool (MRT). The MRTWeb interface organizes GloVis and MRT functionality into three main tabs: Selection, Process, and Download.

MRTWeb was developed by LP DAAC by combining USGS EROS GloVis and LP DAAC MRT code.

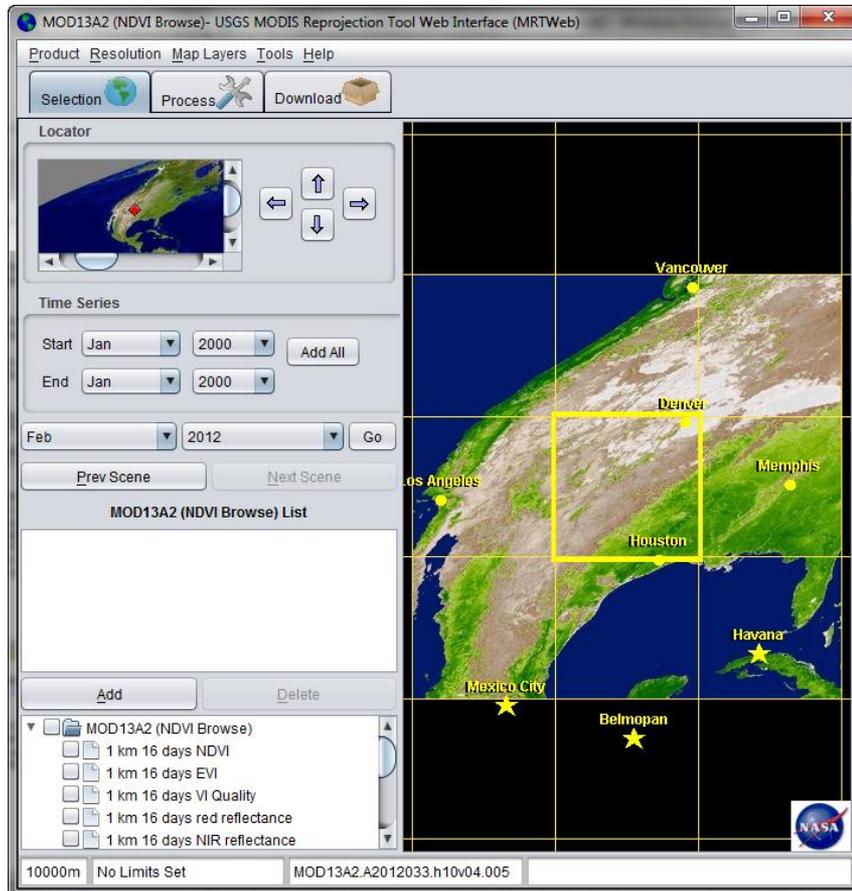
MRTWeb Data Availability



NASA LP DAAC

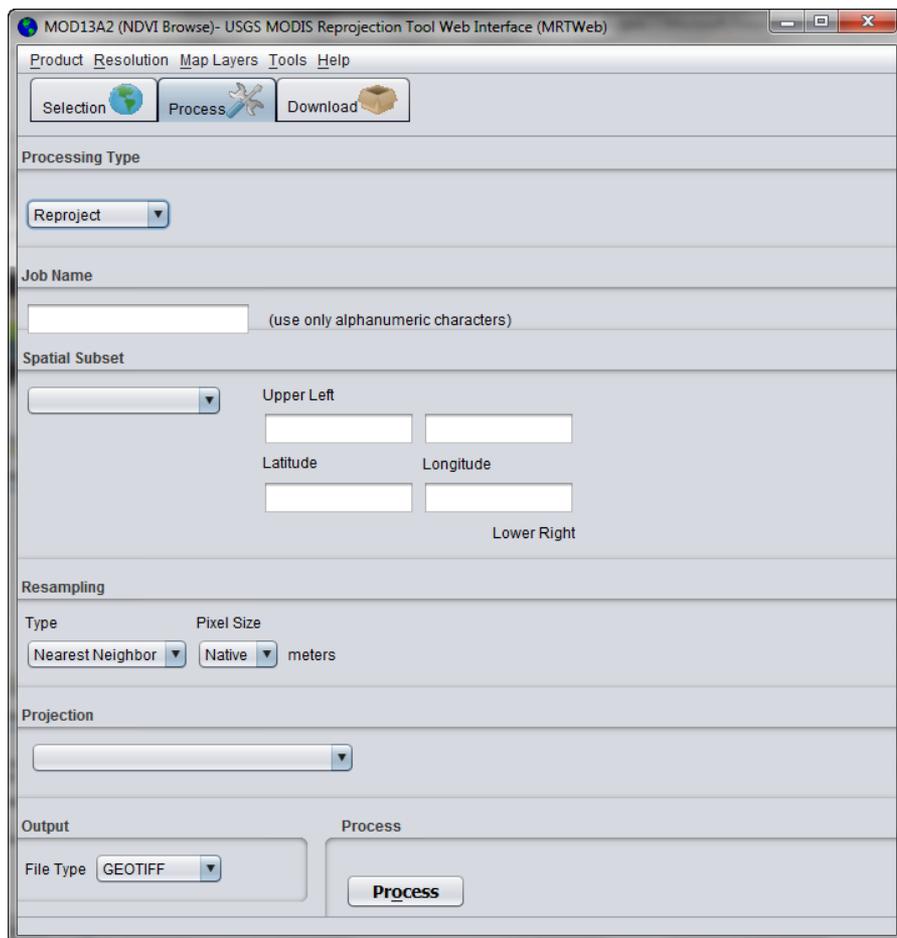
- All tiled MODIS land data with browse
- Does not include:
 - M*D12Q1 Land Cover
 - M*D12Q2 Land Cover Dynamics
 - M*D15A3 4-day LAI
 - M*D17A3 Annual GPP
 - M*D44B Continuous Fields
 - M*D44W Land/Water Mask

MRTWeb Features and Functions



- **Login**
 - Currently - MRTWeb-specific login
 - Coming soon – login with NASA/ECHO username and password
- **Selection tab**
 - GloVis-like navigation and drop-down menus, plus select any or all bands/layers

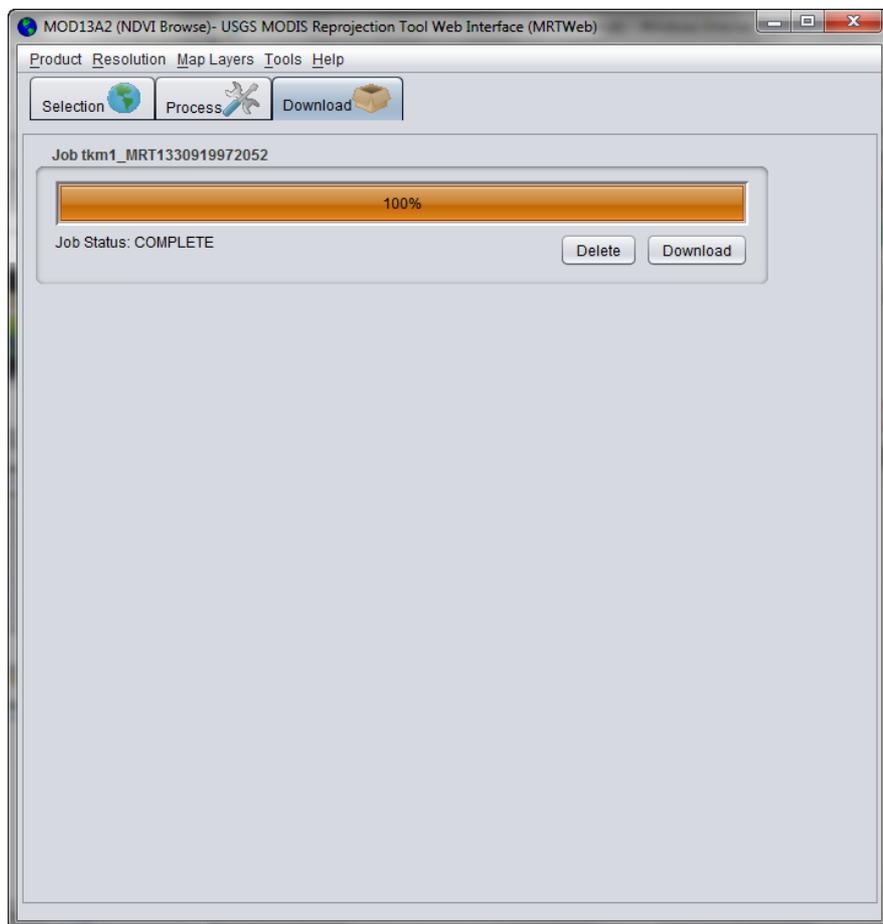
MRTWeb Features and Functions, cont'd



The screenshot displays the 'Process' tab of the MRTWeb interface. The window title is 'MOD13A2 (NDVI Browse)- USGS MODIS Reprojection Tool Web Interface (MRTWeb)'. The interface includes a navigation menu with 'Product', 'Resolution', 'Map Layers', 'Tools', and 'Help'. Below the menu are three buttons: 'Selection' (with a globe icon), 'Process' (with a wrench icon), and 'Download' (with a folder icon). The 'Processing Type' section has a dropdown menu set to 'Reproject'. The 'Job Name' section has a text input field with the instruction '(use only alphanumeric characters)'. The 'Spatial Subset' section includes a dropdown menu, 'Upper Left' coordinates (Latitude and Longitude input fields), and 'Lower Right' coordinates (Latitude and Longitude input fields). The 'Resampling' section has a 'Type' dropdown set to 'Nearest Neighbor' and a 'Pixel Size' section with a 'Native' dropdown and 'meters' text. The 'Projection' section has a dropdown menu. The 'Output' section has a 'File Type' dropdown set to 'GEO TIFF'. The 'Process' section has a 'Process' button.

- **Process tab**
 - Set output file format (HDF, GeoTiff, Binary)
 - Set area of interest (subsetting and mosaicking)
 - Set output projection (Albers Equal Area, Geographic, Lambert Azimuthal, Polar Stereographic, Sinusoidal, UTM)
 - Set resampling cell size
 - Initiate on-demand processing job

MRTWeb Features and Functions, cont'd



- **Download tab**
 - **Monitor status of on-demand processing job**
 - **Download processed data and log files**
 - **Log out and log in later to check status or download completed data**

MRTWeb Use Case 1

SELECT A CLOUD-FREE TILE AND CHANGE ITS FORMAT



MRTWeb Use Case 2

EXTRACT A ONE-YEAR TIME SERIES



MRTWeb Use Case 3

CREATE A MULTI-TILE MOSAIC



MRTWeb 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.**