



NOAA/USGS Land Product Characterization System

A web-based system designed to facilitate characterization and validation of *higher-level scientific data products* including land products from VIIRS, MODIS, Landsat, Sentinel-2 and -3 and GOES-R ABI.

Identify area of interest

1. Enter Search Criteria
To narrow your search area, type in an address or place name, enter coordinates or click the map to define your search area (for advanced map tools, view the [help documentation](#)), and/or choose a date range.

Address/Place Path/Row Feature Circle

Show Clear

Coordinates Predefined Area Shapefile XML

Degree/Minute/Second Decimal

1. Lat: 43.0046, Lon: 11.2939 ✓✗
2. Lat: 43.5485, Lon: 14.6336 ✓✗
3. Lat: 42.1471, Lon: 16.1499 ✓✗
4. Lat: 41.1952, Lon: 12.7222 ✓✗

Use Map Add Coordinate Clear Coordinates

Date Range Result Options

Search from: 06/01/2014 to: 07/01/2014

Search months: (all)

Data Sets Additional Criteria Results

2. Select Your Data Set(s)
Check the boxes for the data set(s) you want to search. When done selecting data set(s), click the **Additional Criteria** or **Results** buttons below. Click the plus sign next to the category name to show a list of data sets.

Use Data Set Prefilter [\(help\)](#)

Data Set Search:

- GOES-R
 - Simulated GOES-R ABI (5/30/2013-6/30/2013)
- Landsat Archive
 - Landsat Surface Reflectance - L8 CLUTRS
 - Landsat Surface Reflectance - L7 ETM+
 - Landsat Surface Reflectance - L4-5 TM
- NASA LPDAAC Collections (MODIS)
 - MODIS Vegetation Indices
 - LPCS - MODIS MOD13A1
 - LPCS - MODIS MOD13A2
 - LPCS - MODIS MOD13A3
 - LPCS - MODIS MOD13Q1
 - LPCS - MODIS MYD13A1
 - LPCS - MODIS MYD13A2
 - LPCS - MODIS MYD13A3
 - LPCS - MODIS MYD13Q1
 - MODIS Land Surface Reflectance
- VIIRS
 - NASA
 - Sample NASA VIIRS (5/30/2013-6/30/2013)

Select all products within area of interest

Contacts:
Kevin Gallo, NOAA/NESDIS
Greg Stensaas, USGS/EROS
John Dwyer, USGS/EROS
Ryan Longhenry, USGS/EROS



The screenshot shows the LPCS web interface. On the left, there's a 'Search Results' section with a list of data sets. Each entry includes an acquisition date, path, and row number. In the center, a map of Europe is displayed with several colored rectangular overlays representing different data scenes. The interface includes navigation buttons like 'First', 'Previous', 'Next', and 'Last' at the bottom left.

Select specific scenes of interest

The LPCS includes:

- data inventory
- access and
- analysis functions

that will permit selection of data to be easily identified, retrieved, co-registered, and compared statistically through a single interface.

Customize Outputs

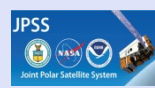
The 'Customization Options' panel is shown with several settings. Under 'Output Format', 'GeoTiff' is selected. 'Reproject Products' is checked, and a dropdown menu for 'Projection' is open, showing options like 'Albers Equal Area', 'Universal Transverse Mercator', 'Geographic', 'Sinusoidal', and 'Polar Stereographic'. Below this, there are input fields for '1st Standard Parallel', '2nd Standard Parallel', 'False Easting', and 'False Northing', each with a 'WGS 84' datum. 'Modify Image Extents' is also checked, with radio buttons for 'Decimal Degrees' and 'Meters'. It includes four coordinate input fields: 'Upper left X coordinate', 'Upper left Y coordinate', 'Lower right X coordinate', and 'Lower right Y coordinate'. 'Pixel Resizing' is checked with a 'Meters' unit and a value of '30.0 to 1000.0'. Finally, 'Resample Method' is set to 'Nearest Neighbor'.

Customize output products

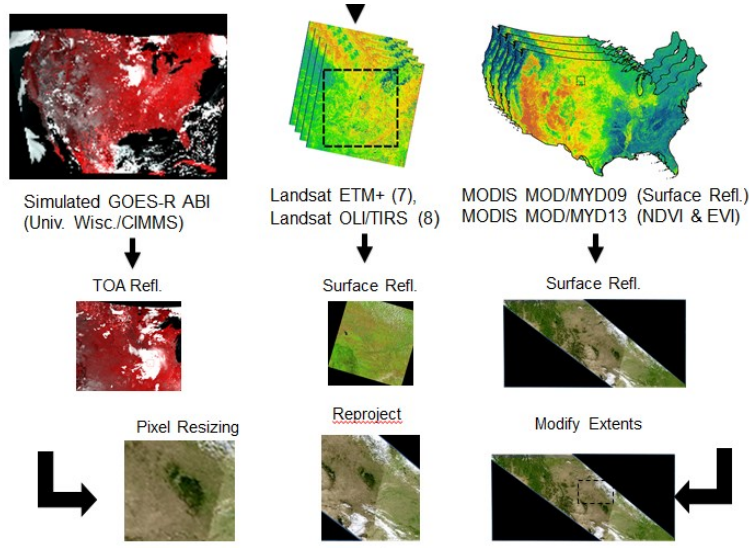


Output includes *summarized tables and charts* for selected area of interest and *geographically registered and resampled image products* for additional analysis by system users.

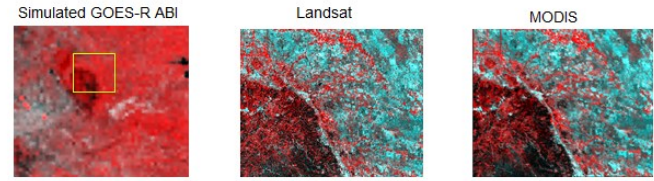
Sensor data/products from MODIS and Landsat are currently included within the LPCS. Additional land data/products from VIIRS, Sentinel-2, and GOES-R will be integrated within the LPCS as they become available as *higher-level scientific data products*.



Input Products in Native Projections



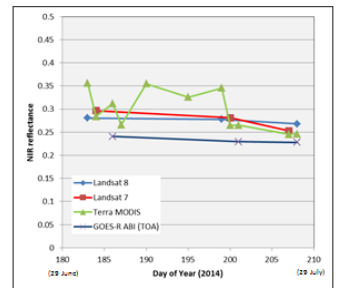
Output Products



Tables and charts of individual bands or indices

	A	B	C	D	E	F	G
1	DATE	DOY	MINIMUM	MAXIMUM	MEAN	STDDEV	VALID
2	7/2/2014	183	854	6850	3562.327	693.2124	yes
3	7/3/2014	184	349	8094	2836.911	495.3851	yes
4	7/5/2014	186	290	6780	3122.295	493.9331	yes
5	7/6/2014	187	308	4667	2653.052	575.2196	yes
6	7/9/2014	190	815	5553	3545.954	658.4303	yes
7	7/14/2014	195	191	7778	3254.757	636.479	yes
8	7/18/2014	199	1253	5621	3455.974	681.7747	yes
9	7/19/2014	200	343	5165	2643.97	393.5894	yes
10	7/20/2014	201	404	8447	2648.748	691.372	yes
11	7/26/2014	207	309	5266	2452.574	376.6008	yes
12	7/27/2014	208	457	4713	2462.386	465.7057	yes
13							

Mean, minimum, maximum, standard deviation



Near-IR time series inter-comparisons