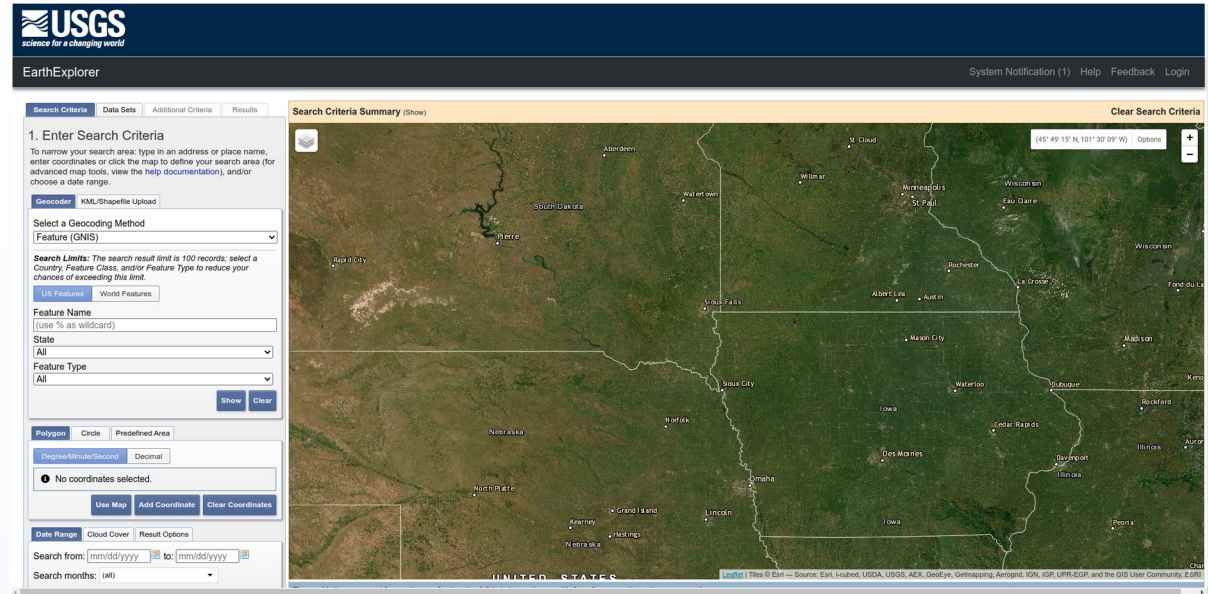


EGM310: GIS and Remote Sensing

Week 10, Part 6: Where to find satellite data

- <https://earthexplorer.usgs.gov>
- Access to Landsat, Sentinel-2, ASTER (terrain-corrected)
- Requires EROS account to download data
- Bulk downloading available via separate tool
- Search based on location, date/month, cloud cover, etc.



Search Criteria Data Sets Additional Criteria Results

4. Search Results

If you selected more than one data set to search, use the dropdown to see the search results for each specific data set.

Note: You must be logged in to download and order scenes

Show Result Controls

Data Set

[Click here to export your results »](#)

Landsat 8 OLI/TIRS C1 Level-1

- 

ID: LC08_L1TP_205022_20200529_20200608_01_T1
 Acquisition Date: 2020-05-29
 Path: 205
 Row: 22
- 

ID: LC08_L1TP_205023_20200529_20200608_01_T1
 Acquisition Date: 2020-05-29
 Path: 205
 Row: 23
- 

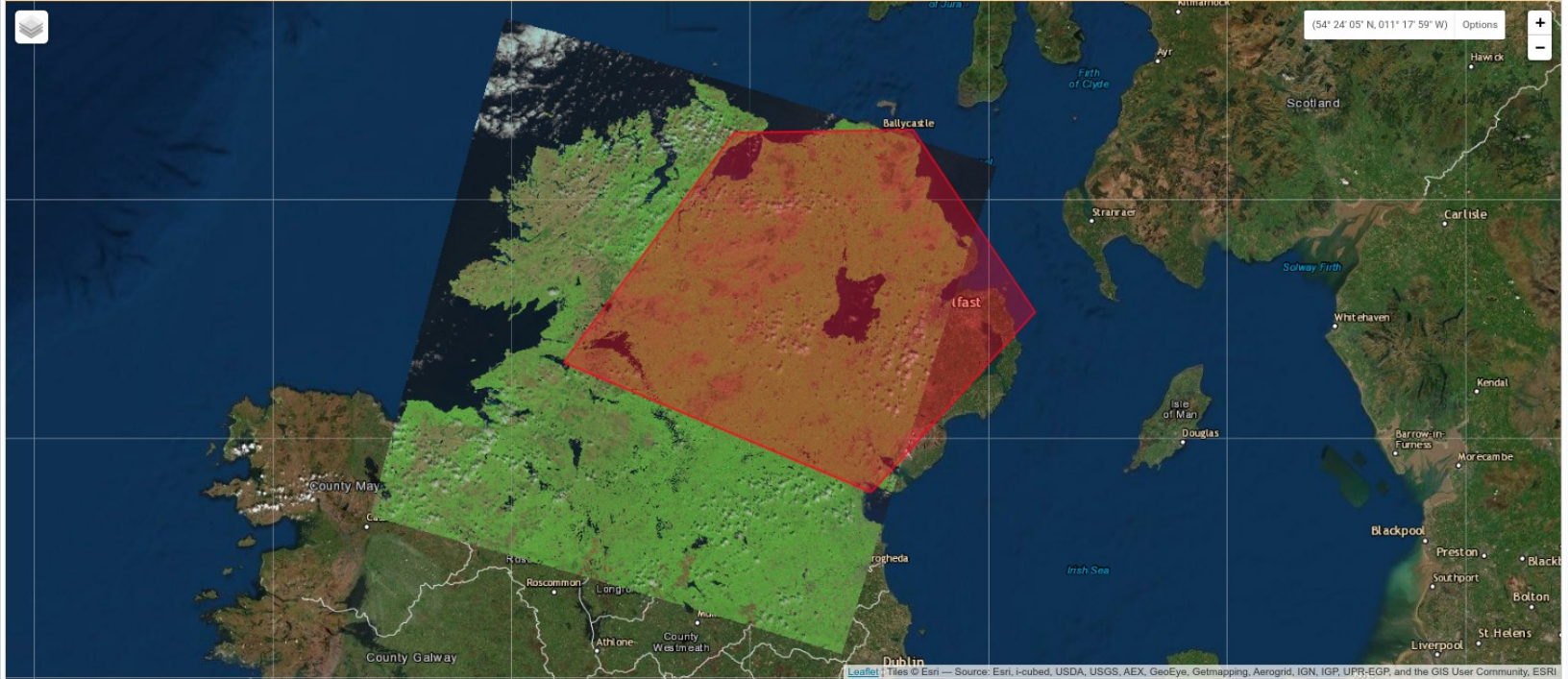
ID: LC08_L1TP_207022_20200511_20200526_01_T1
 Acquisition Date: 2020-05-11
 Path: 207
 Row: 22
- 

ID: LC08_L1TP_207021_20200425_20200509_01_T1
 Acquisition Date: 2020-04-25
 Path: 207
 Row: 21
- 

ID: LC08_L1TP_207022_20200425_20200509_01_T1
 Acquisition Date: 2020-04-25
 Path: 207

Search Criteria Summary (Show)

Clear Search Criteria



The provided maps are not for purchase or for download; it is to be used as a guide for reference and search purposes only.

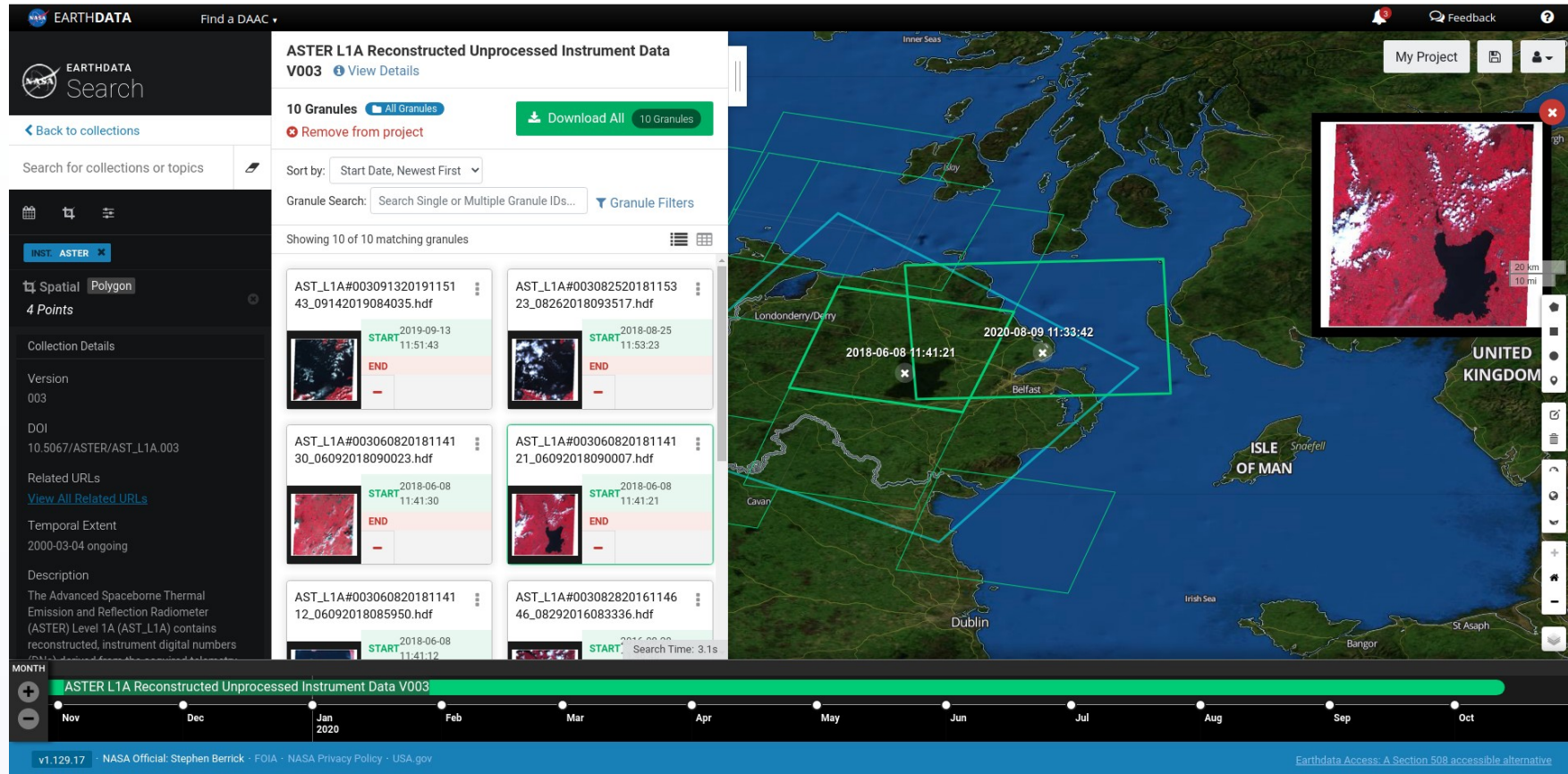
Date Range Cloud Cover Result Options

Search from: 01/01/2020 to: 10/29/2020

Search months: (all)

Data Sets » Additional Criteria » Results »

- <https://search.earthdata.nasa.gov>
- Access to ASTER products:
 - Images ('raw', radiometry, terrain-corrected)
 - Individual digital elevation models (DEMs)
 - Global DEM (version 3)
 - Water Bodies Data
- Also MODIS data
- Spatial, temporal search
- Filter based on clouds
- Script-based downloading for large orders



The screenshot displays the NASA EarthData Search web application. The main heading is "ASTER L1A Reconstructed Unprocessed Instrument Data V003". Below this, it indicates "10 Granules" and provides options to "Download All" (10 Granules) or "Remove from project". The interface includes a search bar, a sidebar with filters (Spatial: Polygon, 4 Points), and a list of granules with their respective start and end dates and times. A map on the right shows the geographical distribution of the data over the British Isles, with specific granules highlighted by green polygons and labeled with their IDs and timestamps. A timeline at the bottom shows the data coverage from November 2019 to October 2020.

ASTER L1A Reconstructed Unprocessed Instrument Data V003

10 Granules [All Granules](#) [Download All](#) 10 Granules

[Remove from project](#)

Sort by: Start Date, Newest First

Granule Search: Search Single or Multiple Granule IDs... [Granule Filters](#)

Showing 10 of 10 matching granules

Granule ID	Start Date/Time	End Date/Time
AST_L1A#003091320191151 43_09142019084035.hdf	2019-09-13 11:51:43	2019-08-25 11:53:23
AST_L1A#003060820181141 30_06092018090023.hdf	2018-06-08 11:41:30	2018-06-08 11:41:21
AST_L1A#003060820181141 12_06092018085950.hdf	2018-06-08 11:41:12	2018-06-08 11:41:12
AST_L1A#003082520181153 23_08262018093517.hdf	2018-08-25 11:53:23	2018-08-25 11:53:23
AST_L1A#003060820181141 21_06092018090007.hdf	2018-06-08 11:41:21	2018-06-08 11:41:21
AST_L1A#003082820161146 46_08292016083336.hdf	2016-08-29 11:41:12	2016-08-29 11:41:12

Map labels: Londonderry/Derry, Belfast, Dublin, Isle of Man, United Kingdom, Irish Sea, Bangor, St Asaph.

Timeline: MONTH, Nov, Dec, Jan 2020, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct.

Footer: v1.129.17 | NASA Official: Stephen Berrick · FOIA · NASA Privacy Policy · USA.gov

24/11/2020

EGM310: W10, P6: Finding satellite data

5

<https://scihub.copernicus.eu/>



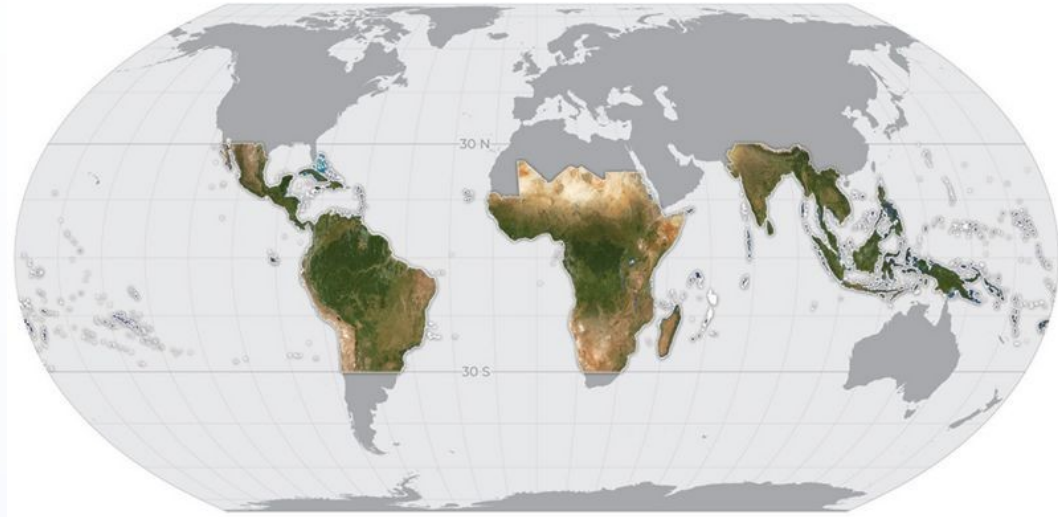
<https://apps.sentinel-hub.com/sentinel-playground/>



24/11/2020

EGM310: W10, P6: Finding satellite data

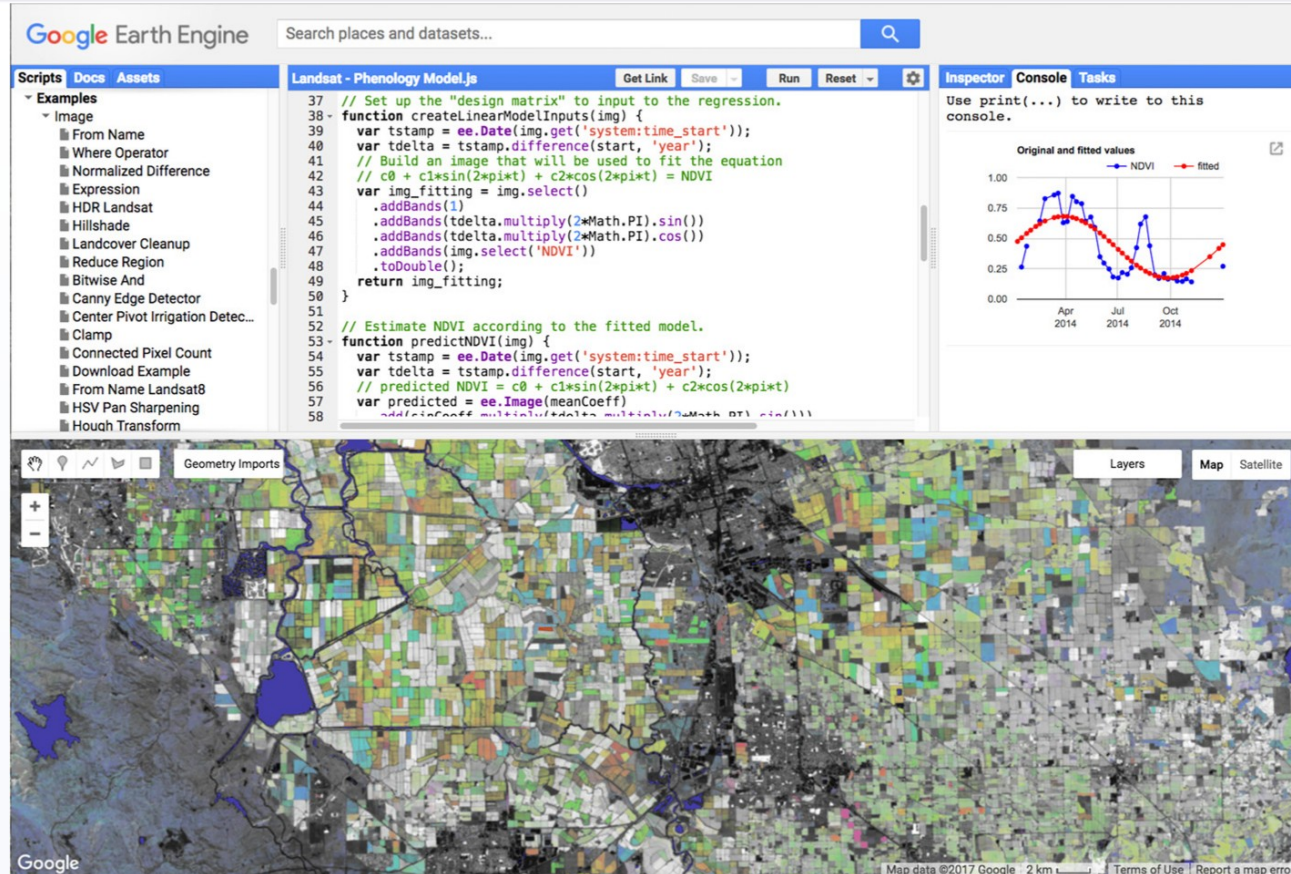
- <https://www.planet.com/nicfi/>
- New (Fall 2020) initiative led by Norwegian government
- High-resolution (~5 m) monthly mosaics of global tropical forests
- Both RGB images and surface reflectance (Vis/NIR) available



Planet Labs, Inc

- <https://earthengine.google.com>
- Web-based processing
- Includes:
 - Landsat archive
 - Sentinel-2
 - MODIS
 - High-resolution imagery
 - Plus a **lot** more (temperature, emissivity, elevation,)
- Code-based interface to search, manipulate, process images





Gorelick et al. 2017

- Numerous platforms available for accessing data:
 - Downloading full-resolution data for processing/analysis
 - Visualizing imagery
 - Cloud-based processing/analysis

- Google EarthEngine Introduction [[GeoHackWeek](#)]
- Google EarthEngine 101 (long!) [[Youtube](#)]