Installation & Testing Instructions
Earthdata Bulk Downloader

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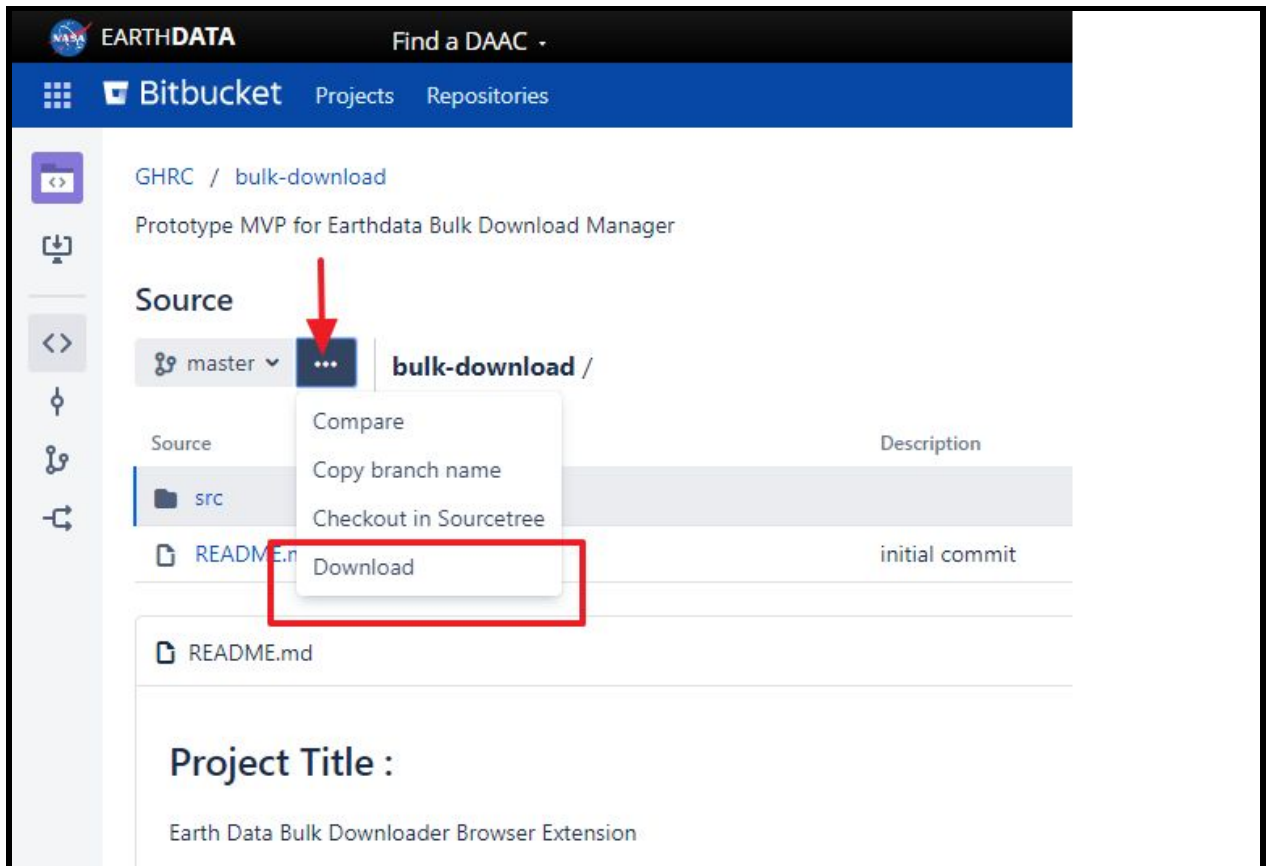August 12, 2019

Installation steps

Step 1:

Clone the git repository to your local desktop:

- https://git.earthdata.nasa.gov/projects/GHRC/repos/bulk-download/browse


If you're not able to download as depicted in the above screenshot, you can use your desktop's command prompt to clone by typing the following command:

HTTP: git clone https://git.earthdata.nasa.gov/scm/ghrc/bulk-download.git

Warning: Make sure you have git installed on your local machine to clone it from the command prompt. If not, can be installed from this link

Step 2:

Locate the git cloned folder(must be in the Downloads folder). It is a zip file with the name **"bulk-download-master@dd8331ec68b.zip".** Unzip the folder and check if it has a folder structure with a **"manifest.json"** file in src folder as shown below:
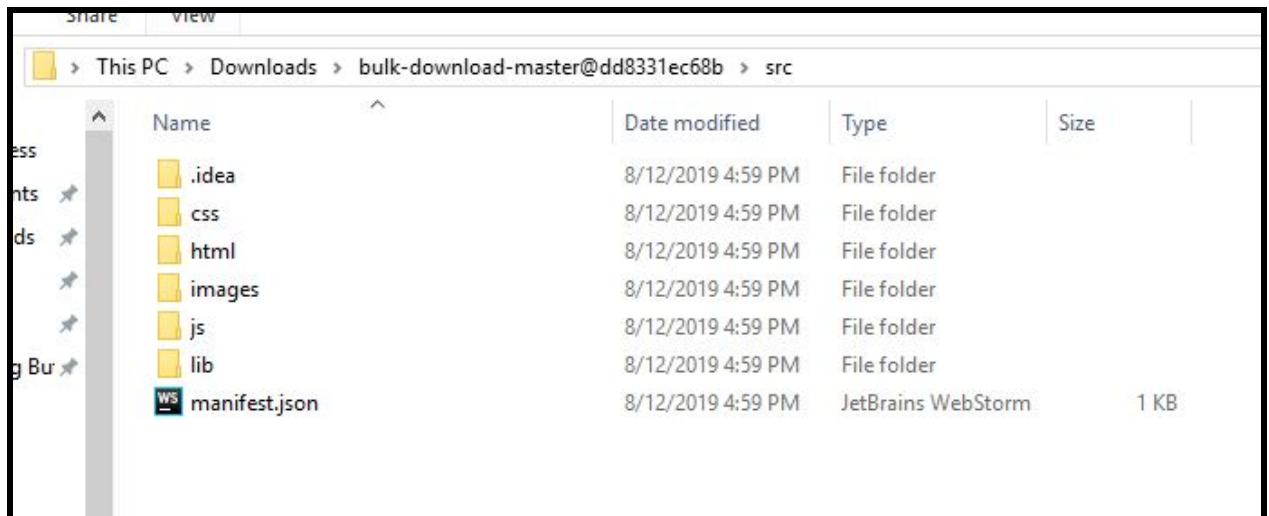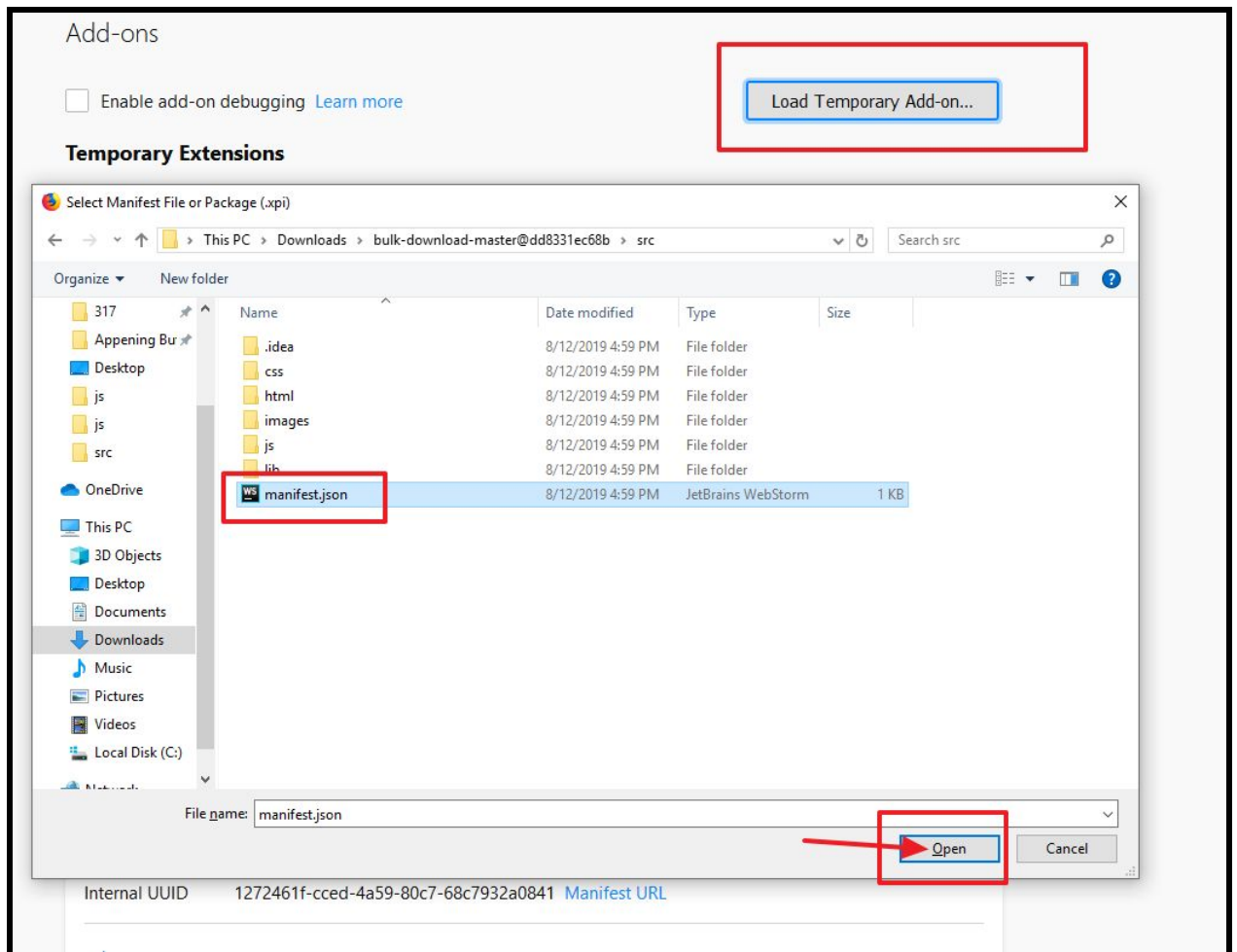

Firefox Browser:

Step 3:

Open Firefox browser, open the temporary add-ons page by typing "about:debugging" in the address bar and click on the "Load Temporary Add-on" button.
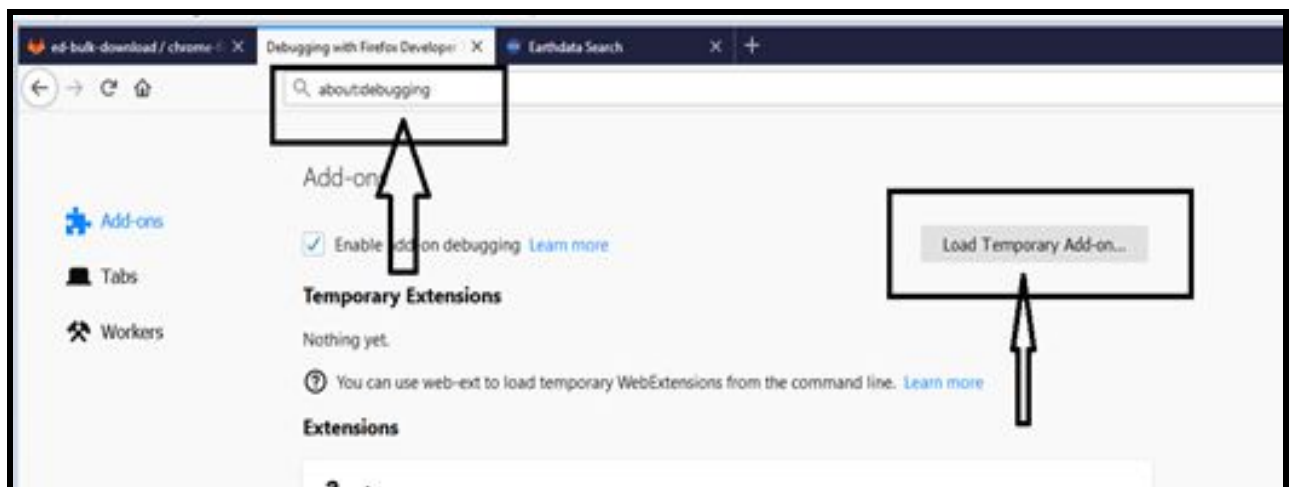
Step 4:

Browse to the git cloned folder, navigate to src folder and open the manifest file (inside the src folder). The Bulk Downloader extension is now set up on firefox and is ready to be tested.

Warning: Please do not close the "about:debugging" page in Firefox during testing. Kindly use a new tab for Earthdata Website. (Once the firefox browser is closed, since the add-on is a temporary extension for developers, it gets deleted. This is not the case for the Chrome browser though.)
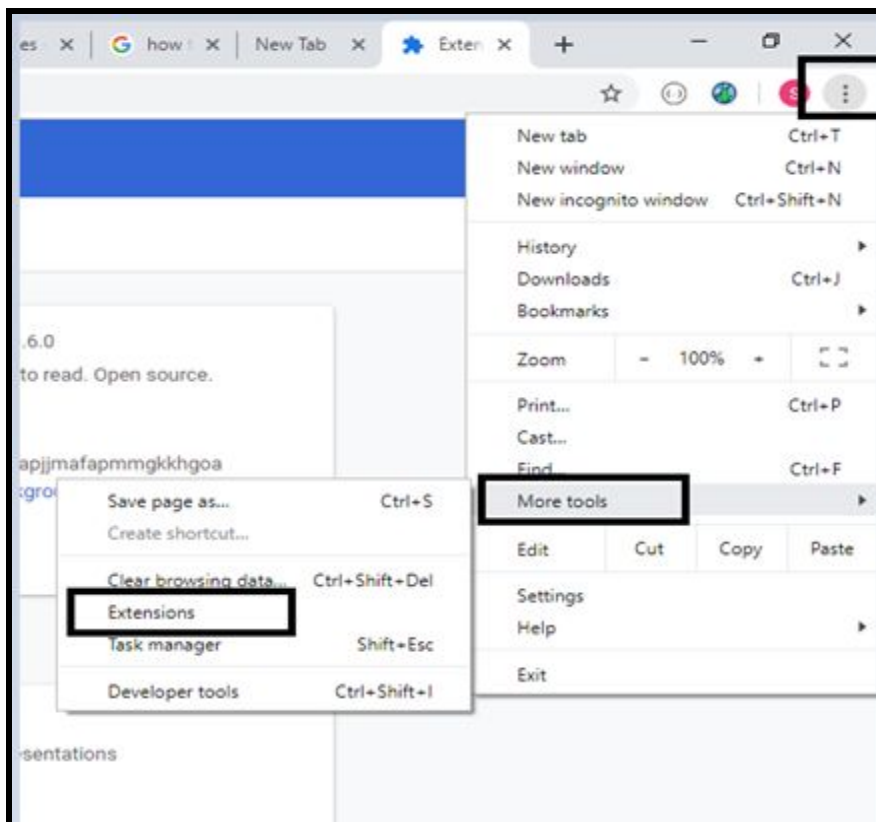
Step 5:

Chrome Browser:

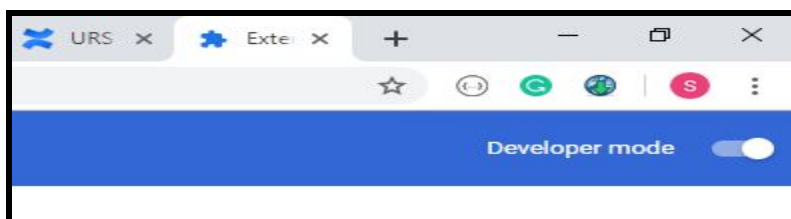After you are done with Step 1 and 2 from above, follow the steps below for Google Chrome.

Step 3:

On opening Chrome, open the extensions page by typing "chrome://extensions" in the address bar or from settings ➜ more tools ➜ Extensions.
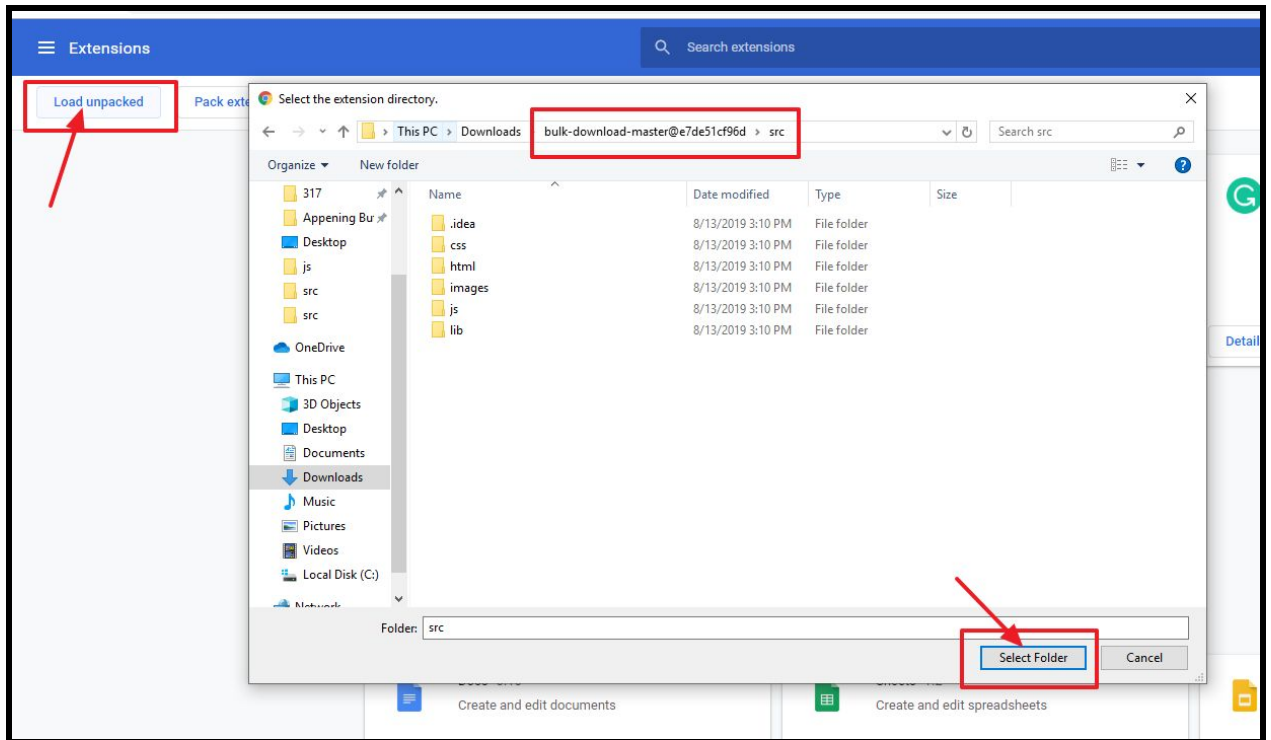

Step 4:

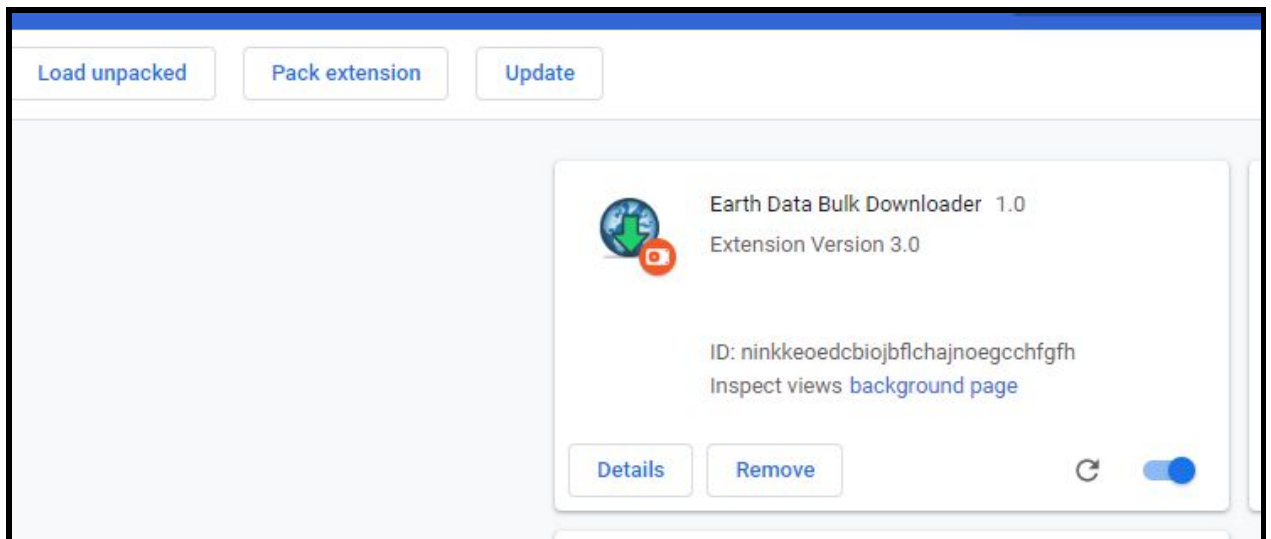Switch on the Developer mode on the top right corner of the page.

Click on "Load unpacked" and Browse to the git cloned folder, navigate to the **src** folder
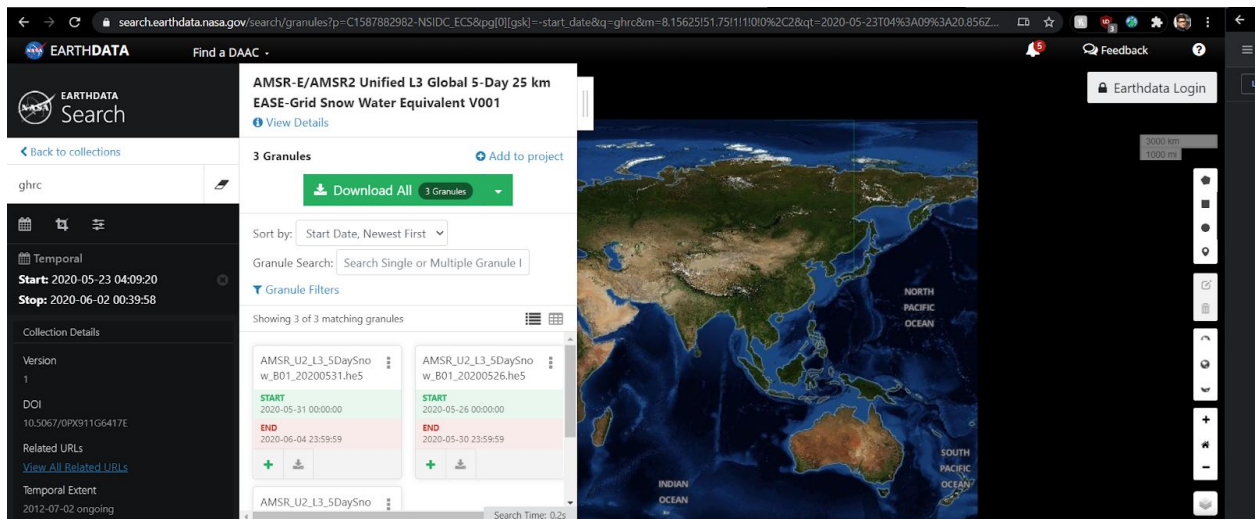
and click on "Select Folder".

The extension has been installed and is ready to be tested in the Google Chrome browser.
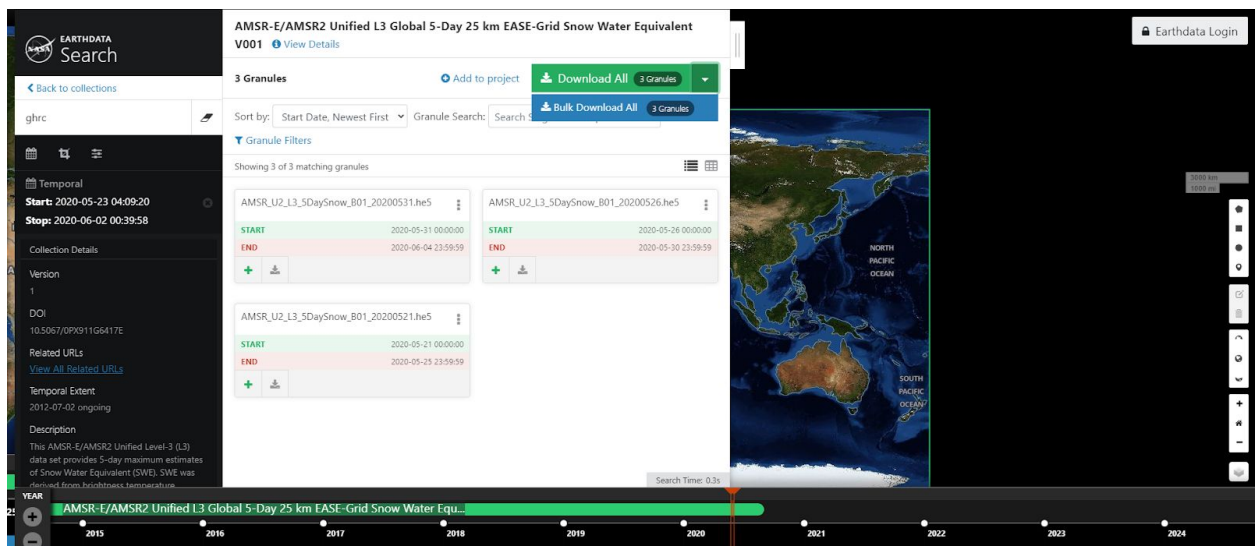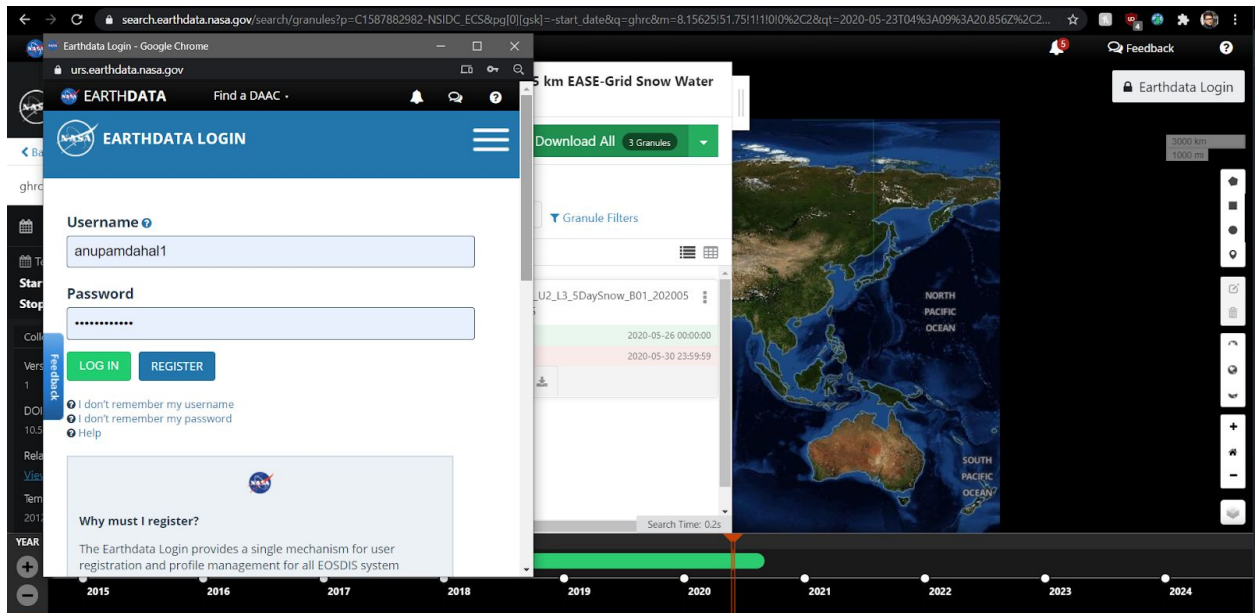
Downloading

For initial testing, here's an example dataset with temporal filters applied already, available at this link.

Click on the dropdown button to see the Bulk Download Button.


On clicking the **Bulk Download All** button, if not logged in, it asks you to log in to URS using a popup window(make sure your browser allows pop-ups) and then downloads all the granules. If already logged in, it directly downloads the granules.

An additional pop-up window may appear which redirects to create an authentication session. After authenticating, it downloads 3 granules in your local downloads folder. The downloads are stored in a folder named after the dataset, inside Earthdata-BulkDownloads folder in your default downloads folder. In this case, you will see the following files in:

Earthdata-BulkDownloads\AMSR-E\AMSR2 Unified L3 Global 5-Day 25 km EASE-Grid Snow Water Equivalent V001
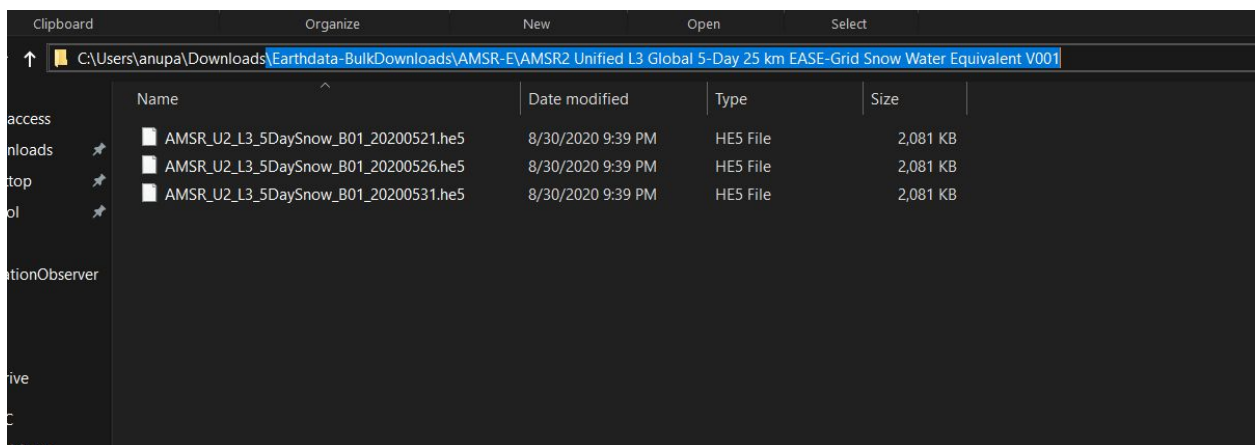
Temporal Filter

Once step 5 works fine, you can start searching for any dataset you wish to and narrow it down to fewer granules using temporal and spatial filters.

For Temporal Filters, click on Calendar Icon and enter the Start and End Date-Time and click on Apply(as shown in the screenshot below). The dataset gets filtered according to the set date and time. For instance, here the dataset: "MODIS/Terra Land Surface Temperature/Emissivity Daily L3 Global 1km SIN Grid V006" has been used, and after applying date filters as shown below, here is the link to the dataset.
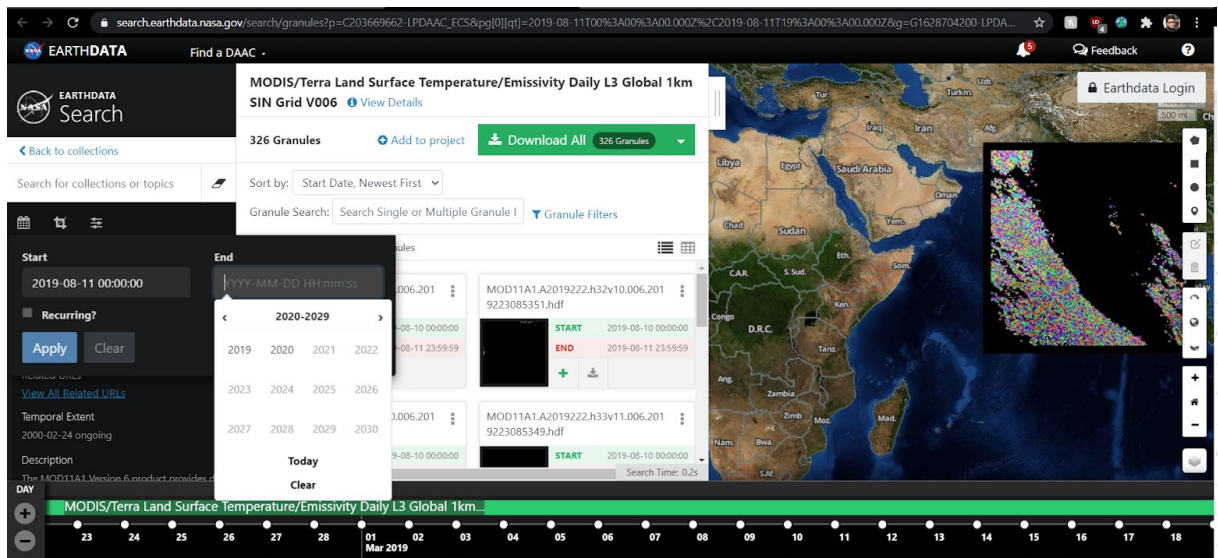

Spatial Filter

The spatial filters like the Polygon, Rectangle, or Point plots can be used to filter the granules as well. First, click on the icon as highlighted below and select Polygon /Rectangle/Point(Currently File and Grid Coordinates are not included in the extension)
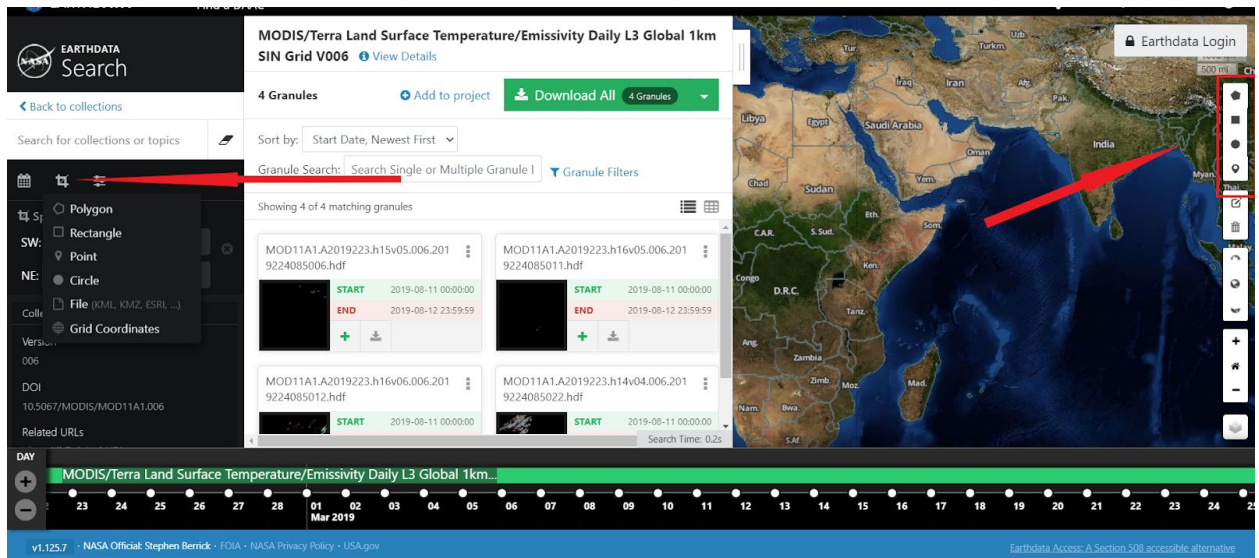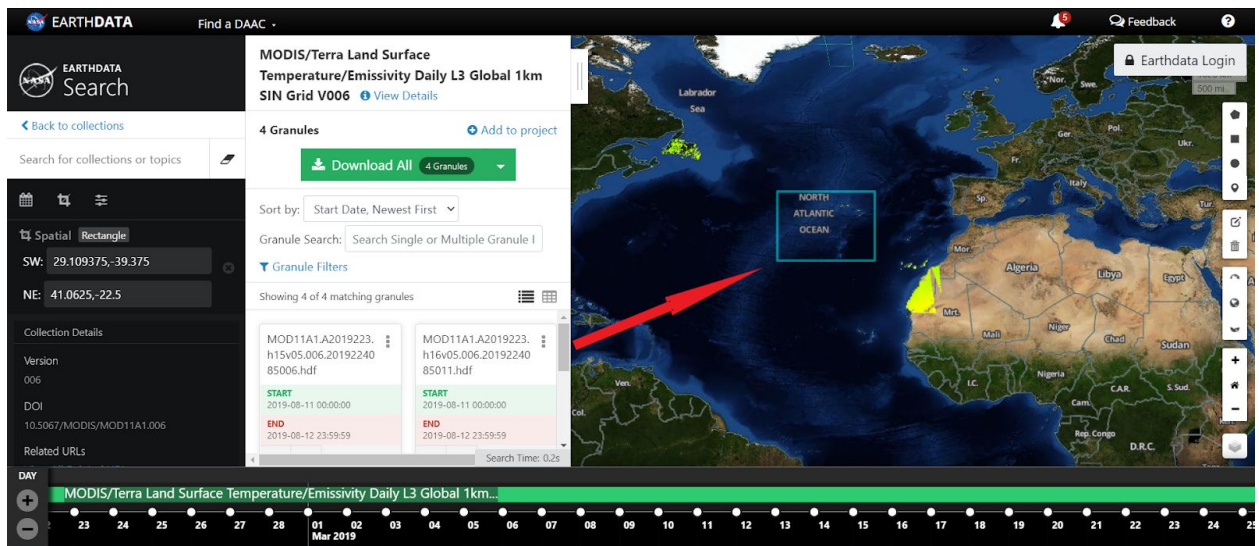
Rectangle

To use the rectangle filter, select the rectangle filter option from the spatial filter dropdown or the toolbar as shown in the by either of the red arrows below.
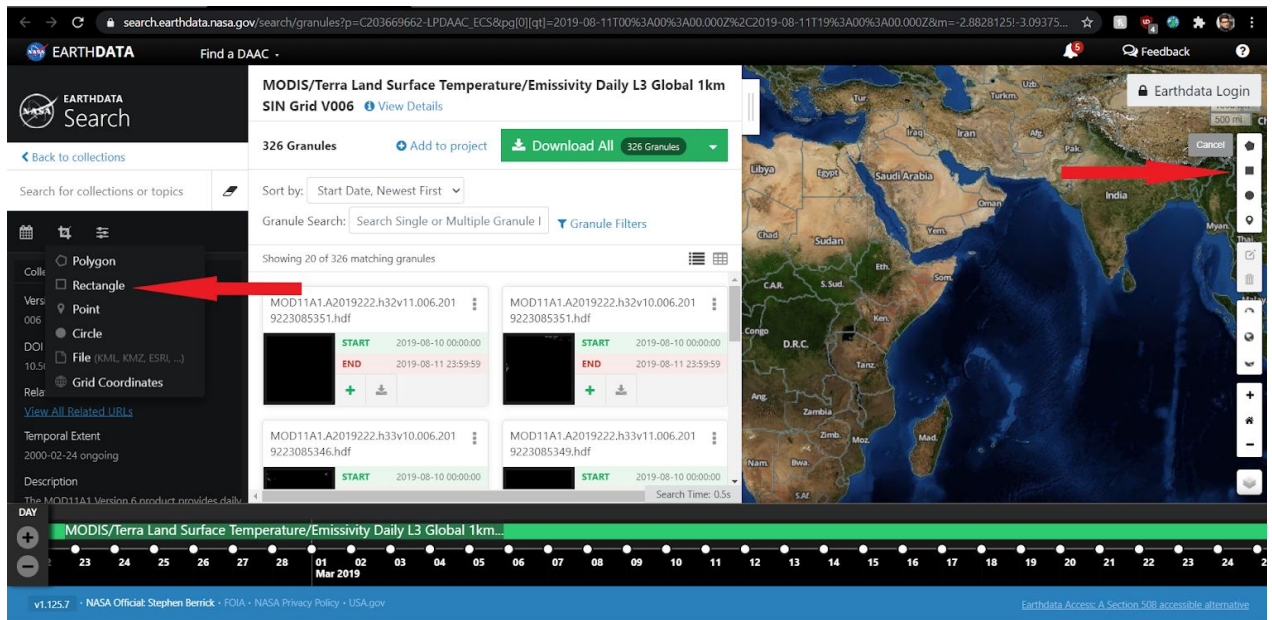
Once the filter is selected, simply draw a rectangle in the desired area of the map.

Polygon

To use a polygon filter, select either of the polygon filter options shown below by the red arrows. Now, choose a starting point, as shown by the green arrow, and keep adding more points until the desired area of the map is enclosed. Now choose the finish option in the toolbar shown by the green arrow. There are also options to delete last points or cancel the polygon filter altogether.
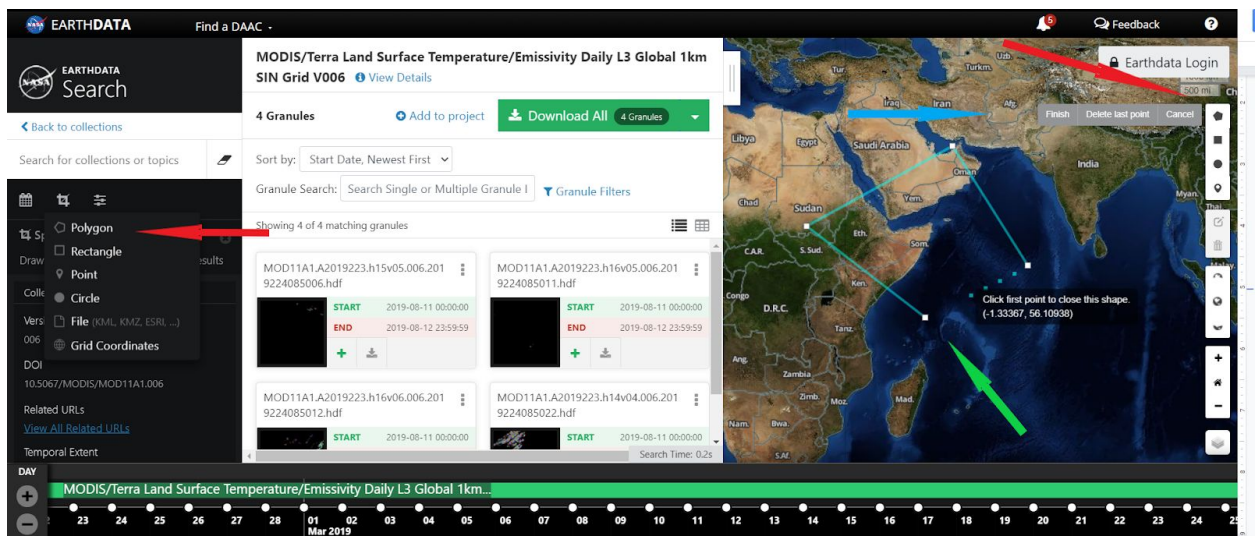
Point

To use the point filter select the point filter option from the spatial filter dropdown or from the toolbar as shown by the red arrows. Now, simply select the point you want to use, and drop the point in the location, as shown by the orange arrow.