

# How do I Download Data Using Earthdata Search?

SOURCE: [How To: Download Data Using Earthdata Search](#)

Users can download a granule, multiple granules, a single collection, or multiple collections.

Earthdata Search enables users to download data through various methods. These methods include:

1. **[Single Granule](#)** - Direct download of a single granule. The selected granule will download immediately.
2. **[Direct Download](#)** - Direct download of all data associated with the selected granules. The desired data will be available for download immediately. Files will be accessed from a list of links displayed in the browser or by downloading a script that can be used with curl or wget.
3. **[Stage for Delivery](#)** - Submit a request for data to be staged for delivery. Data files will be compressed in zip format and stored for retrieval via HTTP. The user will receive an email from the data provider with download instructions when the files are ready to download.
4. **[Customized](#)** - Select options like variables, transformations, and output formats to customize the data. The desired data files will be made available for access after the data provider has finished processing the request. The user will receive an email from the data provider with download instructions when the files are ready to download.



*The available download methods will vary. All methods may not be available for every collection.*

## STEP-BY-STEP INSTRUCTIONS

The user must be logged in to download data using any of the methods described below.



All instructions assume the collection and granule(s) the user is interested in has already been identified.

## Single Granule:

1. **CLICK** on a collection to view the granules.

The screenshot shows the Earthdata Search interface. On the left, there is a sidebar titled "Browse Collections" with sections for Features (Map Imagery, Near Real Time, Customizable), Keywords, Platforms, Instruments, Organizations, and Processing levels. The main area displays a map of Europe with a search bar at the top containing "C194001241-LPDAAC\_ECS". Below the map, a section titled "1 Matching Collections" shows a single item: "MODIS/Terra Vegetation Indices 16-Day L3 Global 250m SIN Grid V006". This item has a thumbnail image, a description ("130,368 Granules - 2000-02-18 ongoing - The Terra Moderate Resolution Imaging Spectroradiometer (MODIS) Vegetation Indices (MOD13Q1) Version 6 data are generated every 16 days at 250 meter (m) spatial resolution as a Level 3 product. The MOD13Q1 product provides two primary vegetation layers. The first is the Normalized..."), and buttons for "MAP IMAGERY" and "MOD13Q1 v006 - LP DAAC". A red box highlights this collection item.

2. **SORT, SEARCH, and/or FILTER** the granules as needed.

The screenshot shows the Earthdata Search interface after clicking on the collection from the previous step. It displays a list of 130,368 matching granules for "MODIS/Terra Vegetation Indices 16-Day L3 Global 250m SIN Grid V006". The results are sorted by "Start Date, Newest first". The interface includes a "Granule filters" button, a "Download All" button, and a "Search Single or Multiple Granule IDs..." input field. Below the list, there is a timeline at the bottom labeled "MONTH" with markers for Sep, Oct, Nov, Dec, Jan 2010, Feb, Mar, Apr, May, Jun, Jul, and Aug. A red box highlights the "Granule filters" button and the timeline.

| Granule ID                                     | Start Date          | End Date            |
|--|---------------------|---------------------|
| MOD13Q1.A2019209.h03v09.006.2019226 003106.hdf | 2019-07-28 00:00:00 | 2019-08-12 23:59:59 |
| MOD13Q1.A2019209.h08v11.006.2019226 004402.hdf | 2019-07-28 00:00:00 | 2019-08-12 23:59:59 |
| MOD13Q1.A2019209.h01v07.006.2019226 005622.hdf | 2019-07-28 00:00:00 | 2019-08-12 23:59:59 |
| MOD13Q1.A2019209.h15v07.006.2019226 014555.hdf | 2019-07-28 00:00:00 | 2019-08-12 23:59:59 |
| MOD13Q1.A2019209.h04v07.006.2019226 014343.hdf | 2019-07-28 00:00:00 | 2019-08-12 23:59:59 |
| MOD13Q1.A2019209.h14v00.006.2019226 011335.hdf | 2019-07-28 00:00:00 | 2019-08-12 23:59:59 |
| MOD13Q1.A2019209.h21v00.006.2019226 012701.hdf | 2019-07-28 00:00:00 | 2019-08-12 23:59:59 |
| MOD13Q1.A2019209.h00v09.006.2019226 012653.hdf | 2019-07-28 00:00:00 | 2019-08-12 23:59:59 |
| MOD13Q1.A2019209.h05v05.006.2019226 015027.hdf | 2019-07-28 00:00:00 | 2019-08-12 23:59:59 |
| MOD13Q1.A2019209.h17v03.006.2019226 015230.hdf | 2019-07-28 00:00:00 | 2019-08-12 23:59:59 |
| MOD13Q1.A2019209.h10v08.006.2019226 012958.hdf | 2019-07-28 00:00:00 | 2019-08-12 23:59:59 |
| MOD13Q1.A2019209.h07v05.006.2019226 013152.hdf | 2019-07-28 00:00:00 | 2019-08-12 23:59:59 |
| MOD13Q1.A2019209.h11v08.006.2019226 014020.hdf | 2019-07-28 00:00:00 | 2019-08-12 23:59:59 |
| MOD13Q1.A2019209.h01v08.006.2019226 014010.hdf | 2019-07-28 00:00:00 | 2019-08-12 23:59:59 |
| MOD13Q1.A2019209.h20v10.006.2019226 015029.hdf | 2019-07-28 00:00:00 | 2019-08-12 23:59:59 |
| MOD13Q1.A2019209.h08v06.006.2019226 014540.hdf | 2019-07-28 00:00:00 | 2019-08-12 23:59:59 |

3. **CLICK** on the *Download single granule data* button on the granule of interest.

The screenshot shows the Earthdata Search interface with the following details:

- Header:** EARTHDATA Find a DAAC - C194001241-LPDAAC\_ECS
- Map:** A world map showing the location of the data over the North Atlantic and Europe.
- Search Bar:** MODIS/Terra Vegetation Indices 16-Day L3 Global 250m SIN Grid V006
- Granule Count:** 130,368 Granules
- Sort Options:** Sort by: Start Date, Newest first
- Filter Options:** Granule Search: Search Single or Multiple Granule IDs... Granule filters
- Download Buttons:** Download All (disabled) | 130,368 Granules
- List View:** Shows 20 of 130,368 matching granules, each with a thumbnail, ID, start date, end date, and download button.
- Timeline:** MONTH: Sep, Oct, Nov, Dec, Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov

4. REPEAT the above steps for each granule of interest.

## Direct Download:

1. **CLICK** on a collection to view the granules.

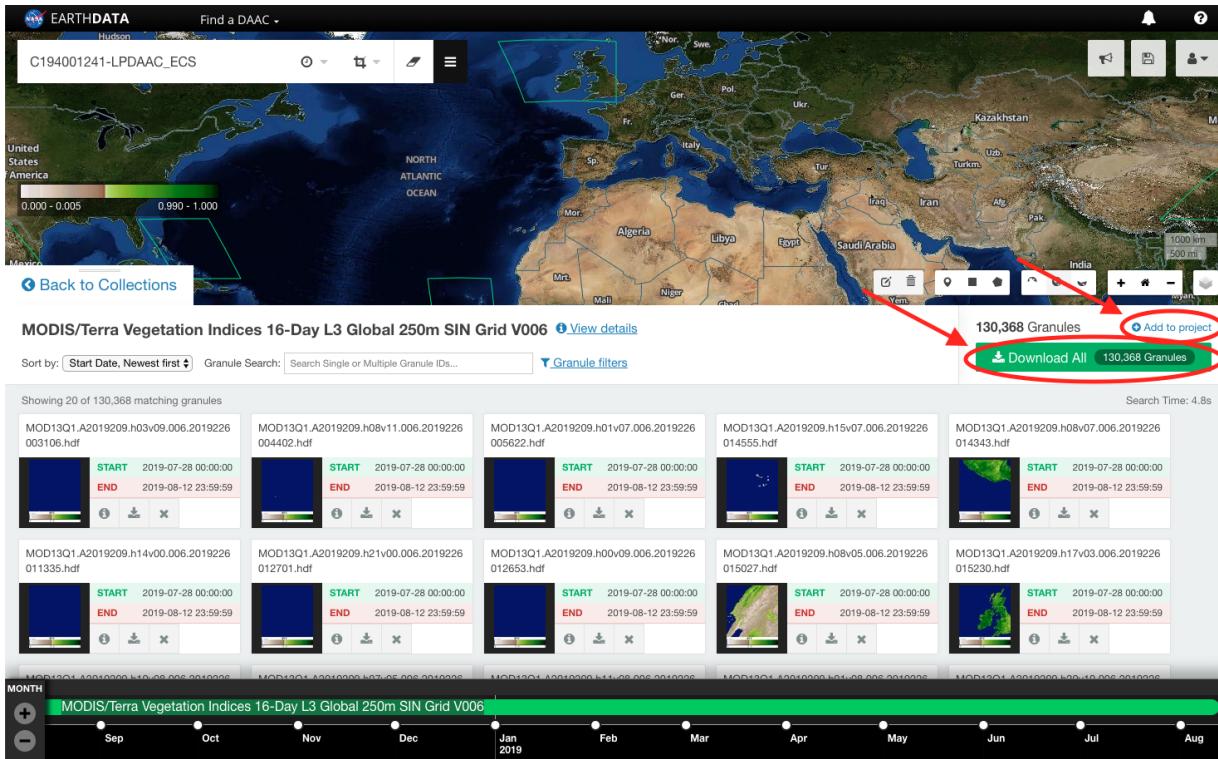
The screenshot shows the Earthdata Search interface. On the left is a sidebar with categories like 'Browse Collections' (Features, Keywords, Platforms, Instruments, Organizations, Processing levels), 'Map Imagery' (selected), 'Near Real Time', and 'Customizable'. The main area displays a map of Europe and the Middle East. A search bar at the top says 'C194001241-LPDAAC\_ECS'. Below it, a section titled '1 Matching Collections' shows a single item: 'MODIS/Terra Vegetation Indices 16-Day L3 Global 250m SIN Grid V006'. This item has a red box around it. Below the collection name is a description: '130,368 Granules · 2000-02-18 ongoing · The Terra Moderate Resolution Imaging Spectroradiometer (MODIS) Vegetation Indices (MOD13Q1) Version 6 data are generated every 16 days at 250 meter (m) spatial resolution as a Level 3 product. The MOD13Q1 product provides two primary vegetation layers. The first is the Normalized...'. At the bottom of this section are 'MAP IMAGERY' and 'MOD13Q1 v006 - LP DAAC' buttons. The rest of the page is a light gray area.

Alternatively, **CLICK** on '*Add collection to current project*' to add all of the granules in the collection that match the spatial and temporal restraints to '**My Project**'.

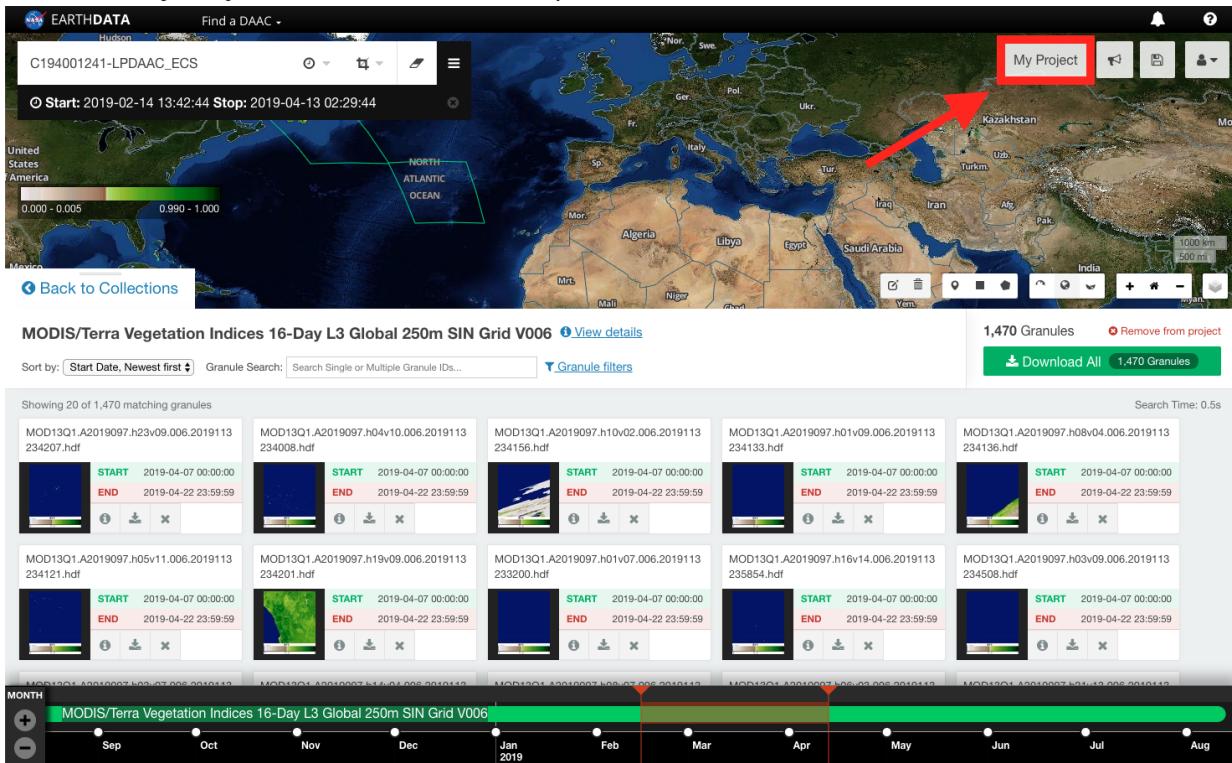
This screenshot is similar to the previous one, showing the same collection detail page for 'MODIS/Terra Vegetation Indices 16-Day L3 Global 250m SIN Grid V006'. However, there are two red arrows pointing to the 'Add to project' button. This button is located at the bottom right of the collection's description box, next to a small icon. The rest of the interface is identical to the first screenshot.

2. **CLICK** on '*Download All*' to add all of the collection's matching granules to "My Project".

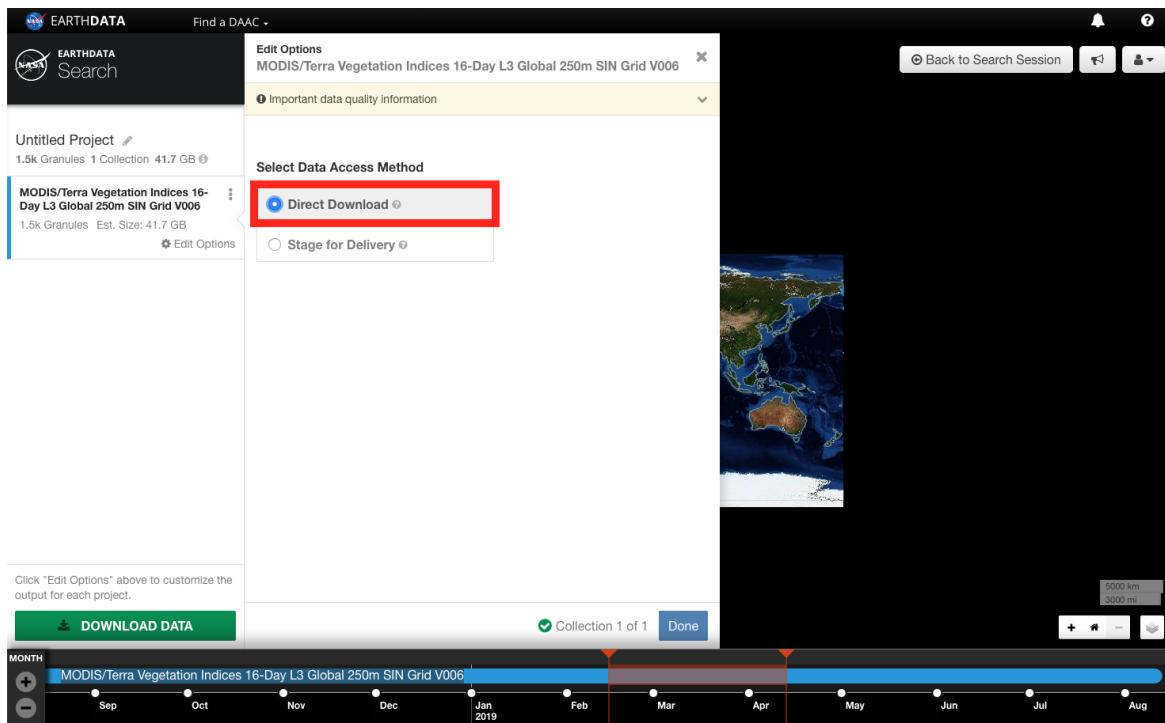
Alternatively, filter the granules as necessary and **CLICK** '*Add to project*'. Only the granules that match the spatial and temporal filter parameters will be downloaded or added to the project.



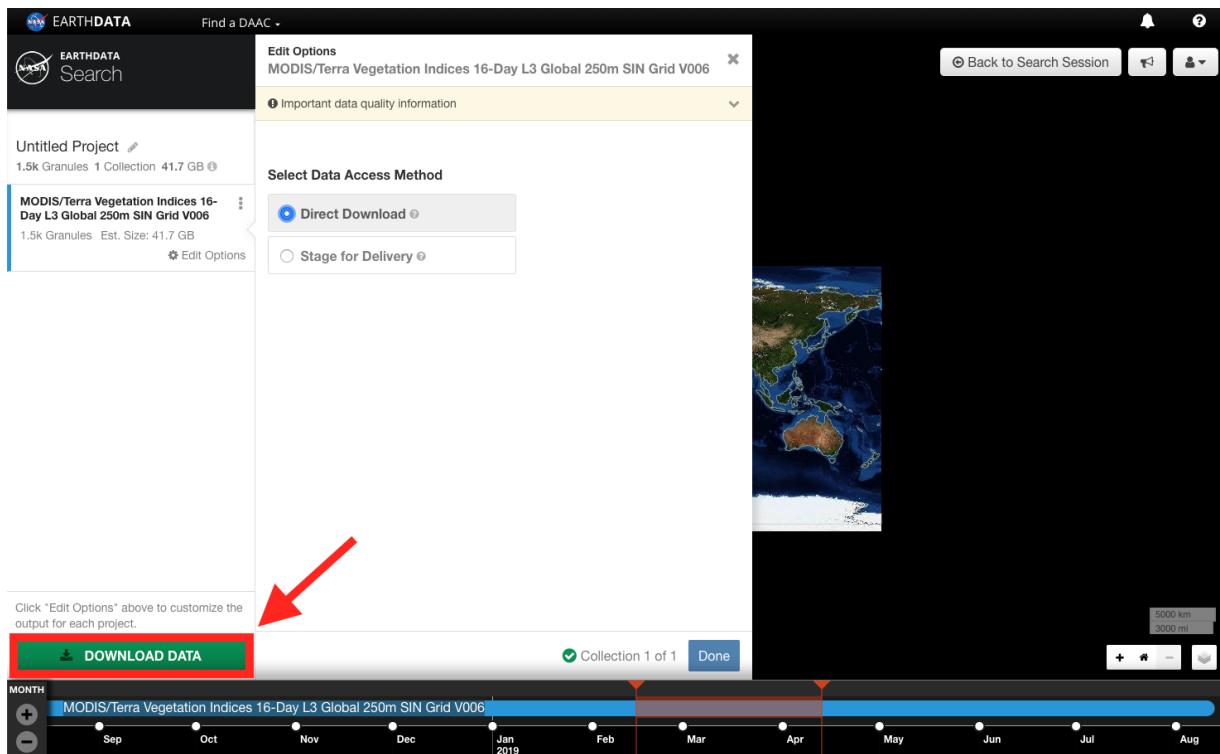
3. **REPEAT** Step 1 and Step 2 as necessary to add additional collections and/or granules to "My Project".
4. **CLICK** on 'My Project' to view download options.



5. **CLICK** on 'Direct Download'.



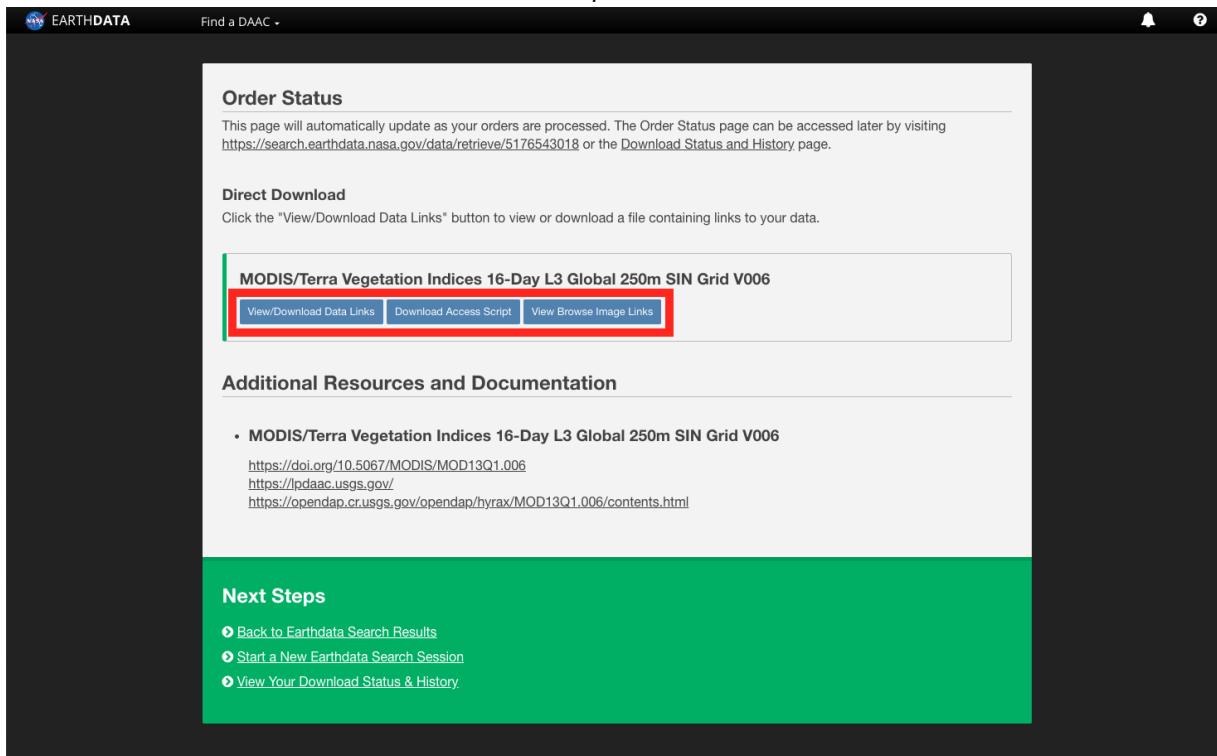
## 6. CLICK on 'DOWNLOAD DATA'.



## 7. The "Order Status" page will appear. CLICK on 'View/Download Data Links', 'Download Access Script', or 'View Browse Image Links' to download the data.

*To download a large number of files, use the download access script. For additional information, How do I Download Data Using Earthdata Search?*

view the How to Use the Download Access Script section.



The screenshot shows the 'Order Status' page for a specific dataset. At the top, there's a header with the NASA Earthdata logo, a search bar labeled 'Find a DAAC', and a help icon. Below the header, the title 'MODIS/Terra Vegetation Indices 16-Day L3 Global 250m SIN Grid V006' is displayed. Underneath the title, three buttons are shown: 'View/Download Data Links' (which is highlighted with a red box), 'Download Access Script', and 'View Browse Image Links'. A section titled 'Additional Resources and Documentation' follows, containing a bulleted list with links to DOI, LPDAAC, and OpenDAP. At the bottom, a green 'Next Steps' box lists options to go back to search results, start a new session, or view download status.

Order Status

This page will automatically update as your orders are processed. The Order Status page can be accessed later by visiting <https://search.earthdata.nasa.gov/data/retrieve/5176543018> or the [Download Status and History](#) page.

**Direct Download**

Click the "View/Download Data Links" button to view or download a file containing links to your data.

**MODIS/Terra Vegetation Indices 16-Day L3 Global 250m SIN Grid V006**

[View/Download Data Links](#) [Download Access Script](#) [View Browse Image Links](#)

**Additional Resources and Documentation**

- **MODIS/Terra Vegetation Indices 16-Day L3 Global 250m SIN Grid V006**  
<https://doi.org/10.5067/MODIS/MOD13Q1.006>  
<https://lpdaac.usgs.gov/>  
<https://opendap.cr.usgs.gov/opendap/hyrax/MOD13Q1.006/contents.html>

**Next Steps**

- ➊ Back to Earthdata Search Results
- ➋ Start a New Earthdata Search Session
- ➌ View Your Download Status & History

# Stage for Delivery:

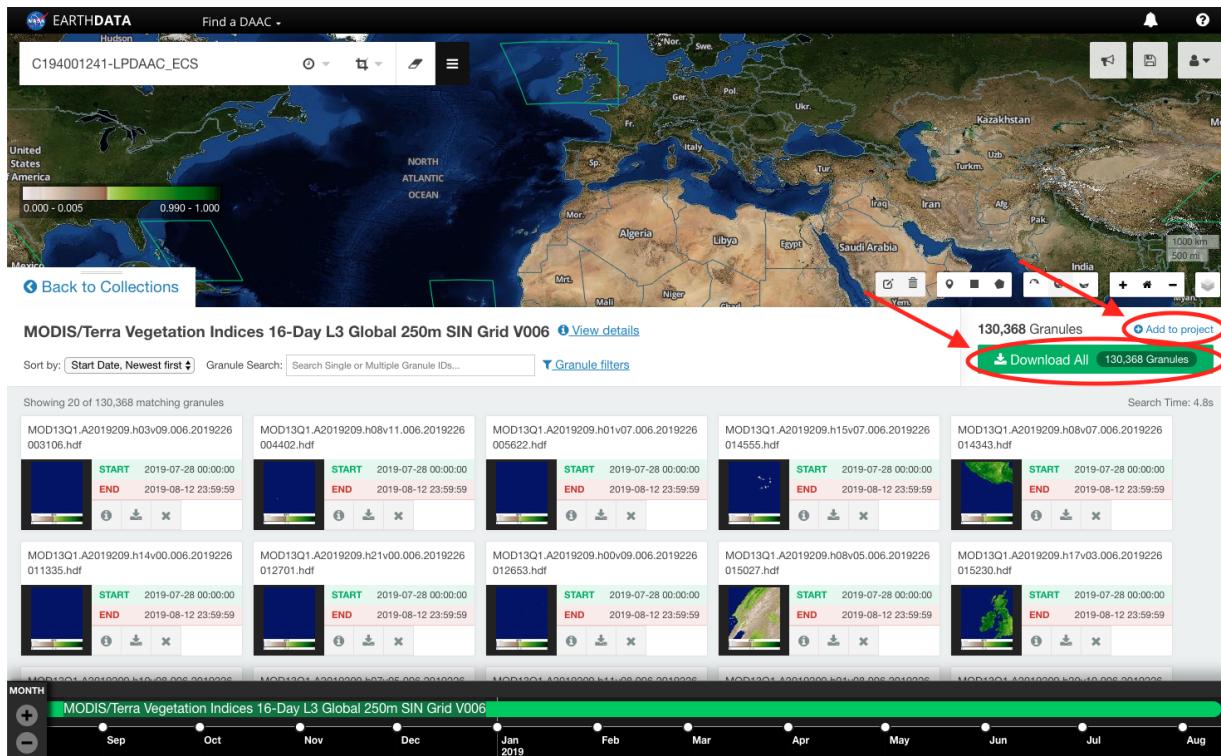
1. **CLICK** on a collection to view the granules.

The screenshot shows the Earthdata Search interface. On the left, a sidebar titled "Browse Collections" includes sections for Features (Map Imagery, Near Real Time, Customizable), Keywords, Platforms, Instruments, Organizations, and Processing levels. The main area displays a map of Europe and the Middle East. A search bar at the top contains the text "C194001241-LPDAAC\_ECS". Below the map, a section titled "1 Matching Collections" shows a single result: "MODIS/Terra Vegetation Indices 16-Day L3 Global 250m SIN Grid V006". This result includes a thumbnail image, a brief description, and two buttons: "MAP IMAGERY" and "MOD13Q1 v006 - LP DAAC". A red box highlights this collection entry.

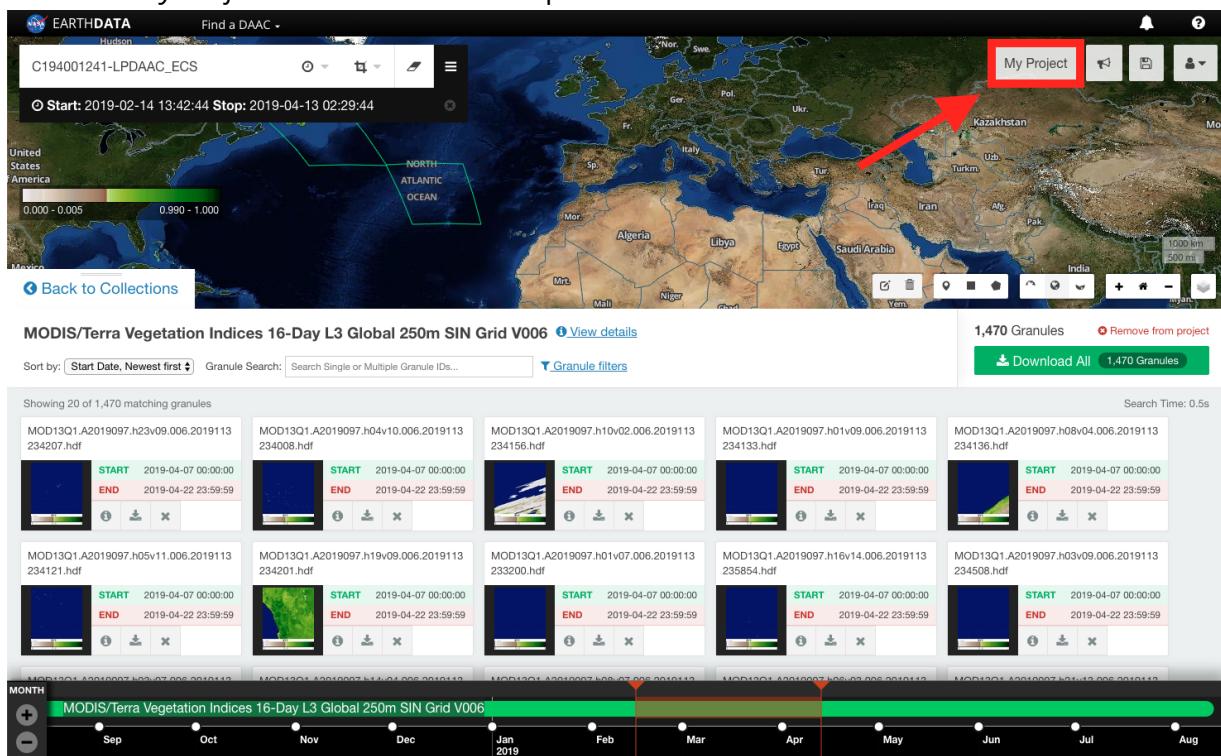
Alternatively, **CLICK** on *Add collection to current project* to add all of the granules in the collection to "My Project".

This screenshot is similar to the previous one, showing the same collection detail page for "MODIS/Terra Vegetation Indices 16-Day L3 Global 250m SIN Grid V006". However, a red arrow points to the bottom right corner of the screen, specifically to the "Add to project" button. This button is represented by a circular icon with a plus sign and a small globe icon.

2. **CLICK** on *Download All* to add all of the collection's granules to "My Project". Alternatively, filter the granules as necessary and **CLICK** *'Add to project'*.

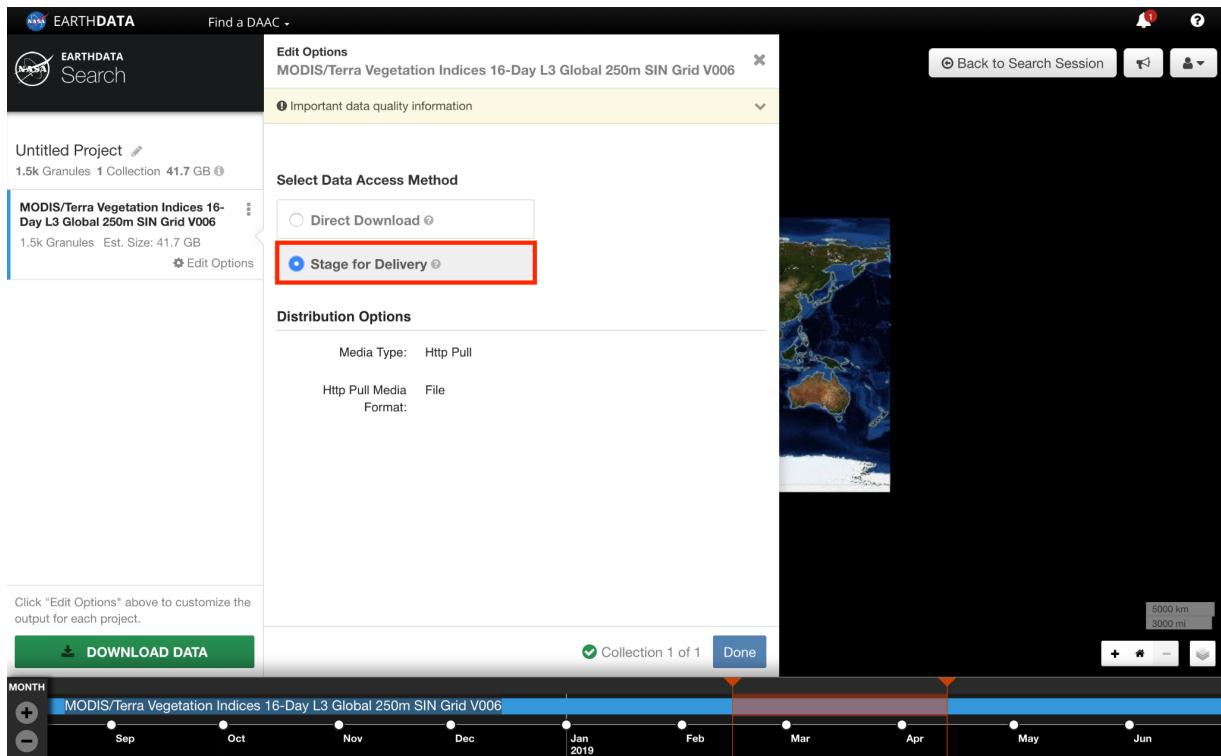


3. **REPEAT** Step 1 and Step 2 as necessary to add additional collections and/or granules to "My Project".
4. **CLICK** on *My Project* to view download options.

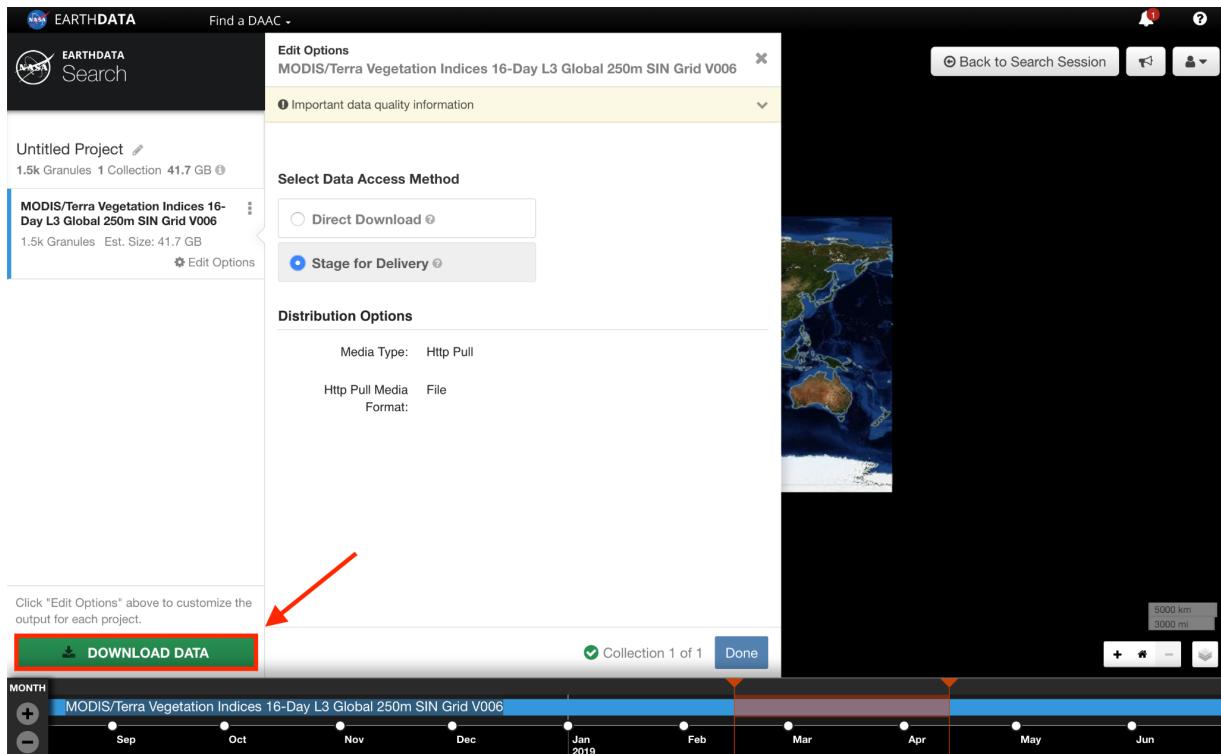


5. **CLICK** on *'Stage for Delivery'*

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## 6. CLICK on DOWNLOAD DATA



- The 'Order Status' page will appear. The 'Order Status' page will update the status of the Stage for Delivery order as it processes. When the data is ready to download the user will receive an email from the data provider, and the 'Order Status' page will list the order as

Complete.

The screenshot shows the Earthdata Order Status page. At the top, there's a header with the NASA Earthdata logo, a search bar labeled "Find a DAAC", and a "Back to Project" link. Below the header, a section titled "Order Status" contains a message about automatic updates and download links. A red box highlights a specific order entry:

**MODIS/Terra Vegetation Indices 16-Day L3 Global 250m SIN Grid V006**

Below the order name are two buttons: a green "Complete" button and a blue "View Browse Image Links" button.

Further down, under "Additional Resources and Documentation", there's a list item for the same order, followed by three URLs. A green "Next Steps" bar is at the bottom.

8. Once the order is complete, the data will be delivered to the email address provided. The email will be from the data provider. **ACCESS** the downloaded data via email.
9. **CLICK** on either the '*Download Links*' or the '*Download ZIP file of packaged order*' links within the email.

The email notification subject is "[EXTERNAL] LPDAAC ECS Order Notification Order ID: 0308582966". It shows the recipient as LPDAAC@usgs.gov <LPDAAC@usgs.gov>. The email body contains order details and download links:

ORDERID: 0308582966  
REQUESTID: 0304974277  
EXTERNAL REQUESTID: BACEC156-9A5A-B4FD-A149-0766D3CFF24D  
USERSTRING:  
FINISHED: 08/15/2019 15:22:22

MEDIATYPE: HTTPS  
MEDIAFORMAT: FILEFORMAT  
HOST: e4ff01.cruses.gov  
DIR: /pullDir/030497427761197

Download Links:  
[https://urldfense.proofpoint.com/v2/url?u=https%3A%2F%2Fe4ff01.cruses.gov%2FpullDir%2F030497427761197&d=DwIBaQ&c=ApwzowJNAKkw3xe91w7BE1XMRKj2LN9kiMk5Cs92k&r=2FzVkk\\_8Alk1tgH0sYRVPGV9T30K9bhuxciOFSGMgNk&m=wkYCrvp0uf](https://urldfense.proofpoint.com/v2/url?u=https%3A%2F%2Fe4ff01.cruses.gov%2FpullDir%2F030497427761197&d=DwIBaQ&c=ApwzowJNAKkw3xe91w7BE1XMRKj2LN9kiMk5Cs92k&r=2FzVkk_8Alk1tgH0sYRVPGV9T30K9bhuxciOFSGMgNk&m=wkYCrvp0uf)

Expiration: 08/25/2019 15:22:22  
MEDIA 1 of 1  
MEDIAID:  
GRANULE: UR:10:DsHESDTUR:UR:15:DsHScServerUR:13:[EDC:DSSDSRV]:25:SC:MOD13Q1.006:2335734203  
ESDT: MOD13Q1.006

TOTAL FILES: 2  
FILENAME: MOD13Q1.A2019097.h35v08.006.2019114000912.hdf  
FILESIZE: 5257172

FILENAME: MOD13Q1.A2019097.h35v08.006.2019114000912.hdf.xml  
FILESIZE: 18680

# Customized:

## 1. FIND a collection that supports customization.

The screenshot shows the Earthdata Search interface. On the left, a sidebar titled 'Browse Collections' has a section for 'Features' with three options: 'Map Imagery' (unchecked), 'Near Real Time' (unchecked), and 'Customizable' (checked). A red arrow points to the 'Customizable' option. The main area displays a map of Europe and North Africa. A search bar at the top says 'Find a DAAC'. Below it, a message says 'Type any topic, collection, or place name'. A callout box says '181 Matching Collections'. A sorting dropdown says 'Sort by: Relevance'. Below the map, there are four collection cards. The first card is for 'MODIS/Terra Land Surface Temperature/Emissivity Daily L3 Global 1km SIN Grid V006', which is marked as 'CUSTOMIZABLE'. A red arrow points to this label. The other three cards are for 'NASA Shuttle Radar Topography Mission Global 3 arc second V003', 'MODIS/Terra Surface Reflectance 8-Day L3 Global 500m SIN Grid V006', and 'MODIS/Terra Vegetation Indices 16-Day L3 Global 500m SIN Grid V006', all of which are also marked as 'CUSTOMIZABLE'.

## 2. CLICK on a collection to view the granules.

The screenshot shows the same Earthdata Search interface as the previous one, but with a different collection highlighted. The 'MODIS/Terra Land Surface Temperature/Emissivity Daily L3 Global 1km SIN Grid V006' collection is now highlighted with a red box. This collection has 4,156 granules from 2000-02-24 onwards. The other three collections remain visible below it.

Alternatively, **CLICK** on '*Add collection*' to current project to add all of the granules in the collection to your project.

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collection to 'My Project'.

The screenshot shows the NASA Earthdata Search interface. On the left, there's a sidebar with 'Browse Collections' sections for Features (Map Imagery, Near Real Time, Customizable), Keywords, Platforms, Instruments, Organizations, Projects, and Processing levels. The main area displays a map of Europe and North Africa with a search bar at the top. Below the map, a section titled '111 Matching Collections' is shown. One collection is highlighted: 'MODIS/Terra Land Surface Temperature/Emissivity Daily L3 Global 1km SIN Grid V006'. This card includes a preview image, a title, a description, and download buttons for 'MAP IMAGERY', 'CUSTOMIZABLE', and 'MOD11A1 v006 - LP DAAC'. A red arrow points to the 'My Project' button in the top right corner of this card.

4. **REPEAT** Step 1 through Step 3 as necessary to add additional collections and/or granules to 'My Project'.
5. **CLICK** on *My Project* to view download options.

This screenshot shows the 'My Project' page for the MODIS/Terra Land Surface Temperature/Emissivity Daily L3 Global 1km SIN Grid V006 collection. At the top, there's a map of Europe with a red box highlighting 'My Project'. Below the map, the collection details are shown again, including a preview image, title, description, and download buttons. To the right, there are buttons for '4,115 Granules' and 'Download All 4,115 Granules'. The main area displays a grid of 20 granule thumbnails, each with 'START' and 'END' times. A red arrow points to the 'My Project' button in the top right corner of the collection card. At the bottom, there's a timeline from Sep 2019 to Aug 2019 with a green progress bar indicating data availability.

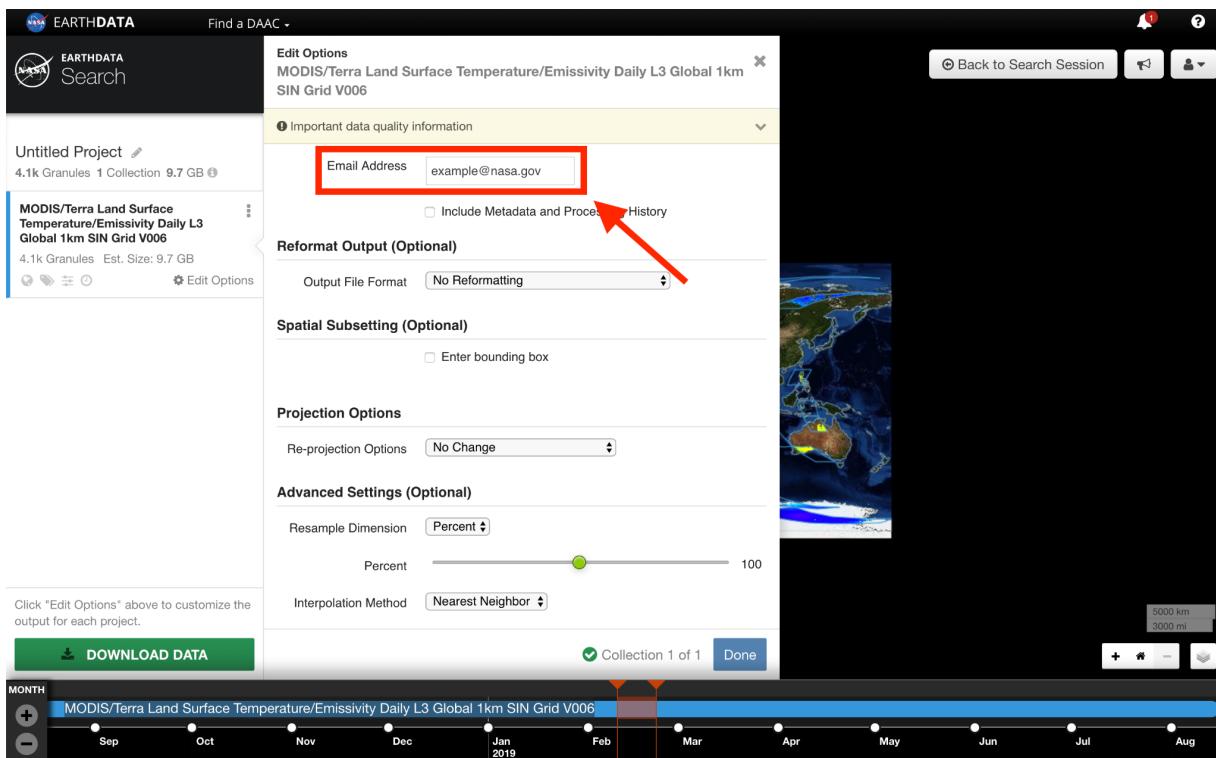
6. **CLICK** on Customize.

The screenshot shows the Earthdata Search interface. At the top, there's a search bar with 'Type any topic, collection, or place name' and a map of Europe. Below the search bar, it says 'Start: 2019-02-10 02:44:16 Stop: 2019-02-22 02:50:34'. On the right side, there's a 'My Project' button with a red arrow pointing to it. Below the search bar, there's a section for 'MODIS/Terra Land Surface Temperature/Emissivity Daily L3 Global 1km SIN Grid V006' with a 'View details' link. It shows 4,115 Granules. A green button at the bottom right says 'Download All 4,115 Granules'. The main area displays a grid of 12 granules, each with a thumbnail, start date (2019-02-22), end date (2019-02-22 23:59:59), and a download icon. Below the grid is a timeline from Sep to Aug with a red arrow pointing to the 'Feb' marker.

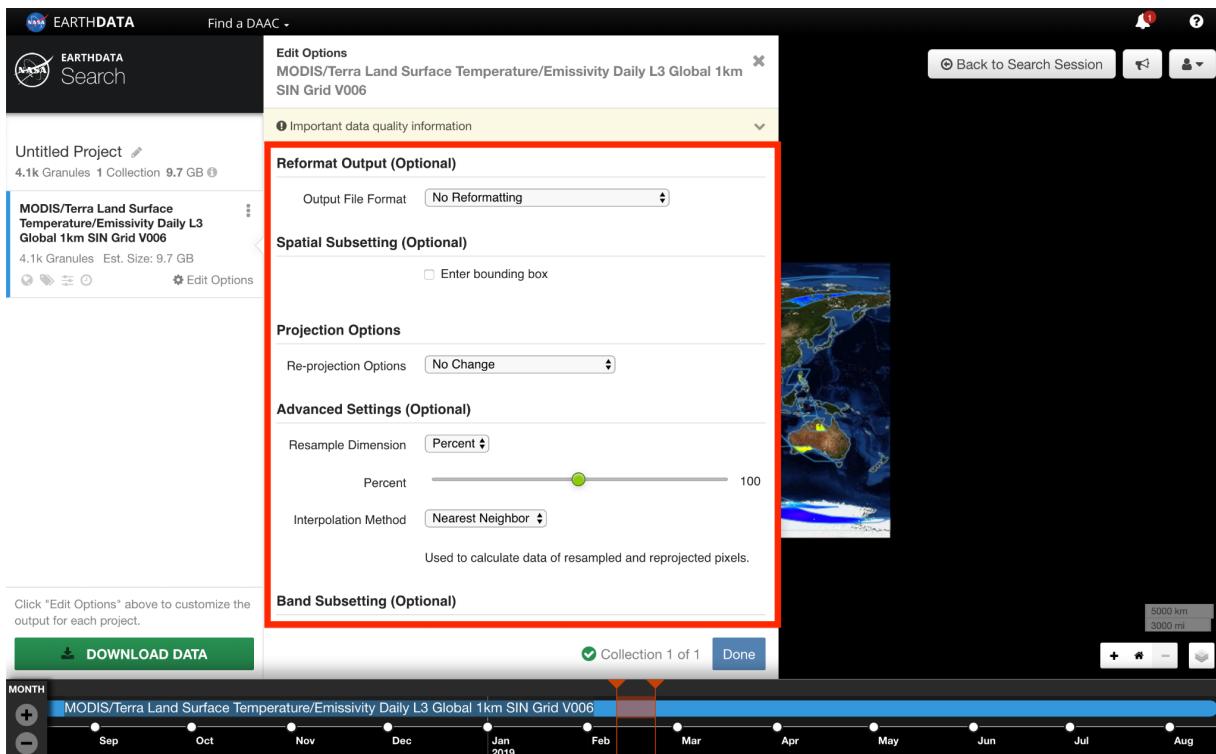
7. **ENTER** the email address where the data link(s) will be delivered.

The screenshot shows the 'Edit Options' dialog for the MODIS/Terra Land Surface Temperature/Emissivity Daily L3 Global 1km SIN Grid V006 collection. On the left, there's a sidebar with 'Untitled Project' and '4.1k Granules 1 Collection 9.7 GB'. The main dialog has a 'Select Data Access Method' section with three options: 'Direct Download', 'Stage for Delivery', and 'Customize', with 'Customize' being selected and highlighted with a red box. Below this is an 'Email Address' field containing 'example@nasa.gov'. There's also a checkbox for 'Include Metadata and Processing History'. The bottom of the dialog shows a 'DOWNLOAD DATA' button and a 'Done' button. A red arrow points to the 'Customize' radio button. The background shows a map of the world with a red arrow pointing to the 'Feb' marker on a timeline at the bottom.

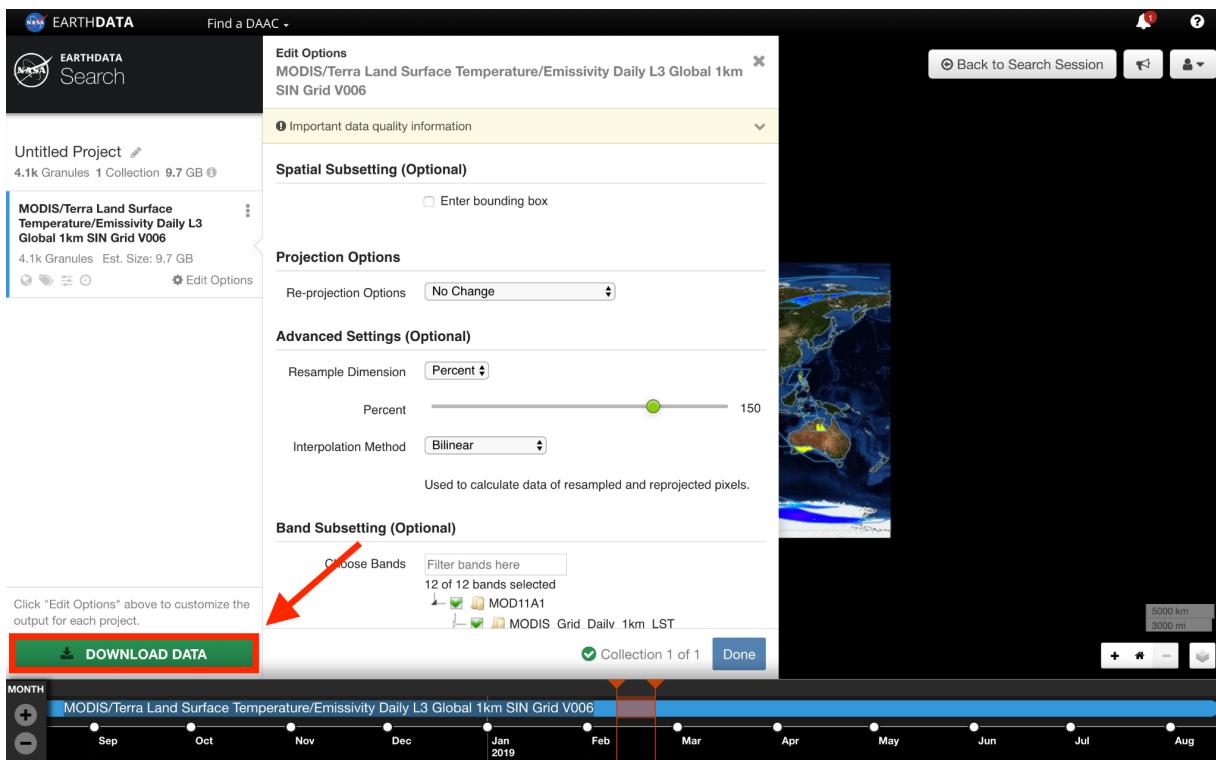
8. **CUSTOMIZE** the available parameters as necessary.



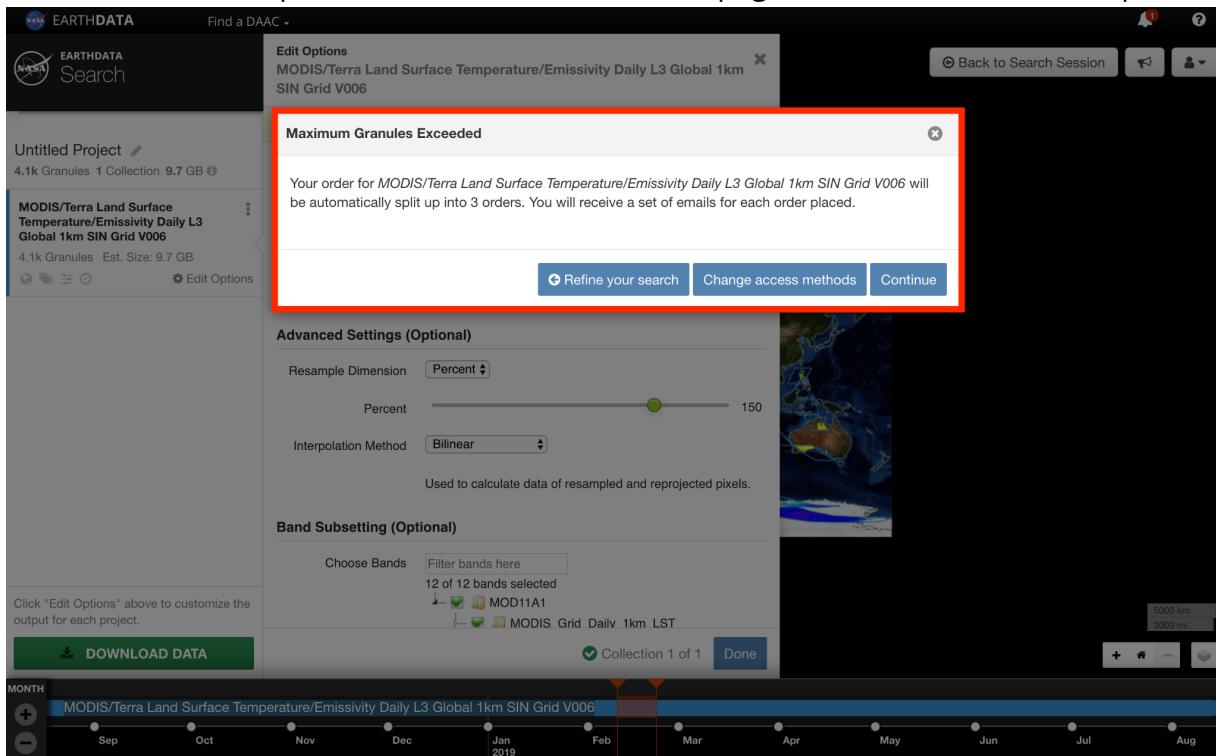
## 9. CLICK DOWNLOAD DATA.



If the project contains a large number of granules, it may be split into several orders.



The 'Order Status' page will appear. The 'Order Status' page will update the status of the Customized order as it processes. When the data is ready to download the user will receive an email from the data provider, and the 'Order Status' page will list the order as *Complete*.



Once the order is complete, the data will be delivered to the email address provided. The email will be from the data provider. **ACCESS** the downloaded data via email.

CLICK on either the Listing of Individual Files or the ZIP file containing all output files links within the email to access and download the data.

[EXTERNAL] Order 46963 complete



lpdaac@usgs.gov <lpdaac@usgs.gov>

Show Details

## Status update for ECS data processing request 46963

Your request is currently complete. Your request has completed processing. You may retrieve the results from the download URLs until 2019-08-26 10:02:30.442

Note from Client: To view the status of your request, please see: <http://search.earthdata.nasa.gov/data/retrieve/316547772>

The output of this request can be downloaded from the following URLs:

- <https://e4ftl01.cr.usgs.gov/ops/esir/46963.html> (Listing of individual files)
- <https://e4ftl01.cr.usgs.gov/ops/esir/46963.zip> (ZIP file containing all output files)

Please contact LP DAAC User Services at [lpdaac@usgs.gov](mailto:lpdaac@usgs.gov) with any questions about this request. Be sure to reference the request ID 46963 in any correspondence.