



Earthdata Search (Exercise)

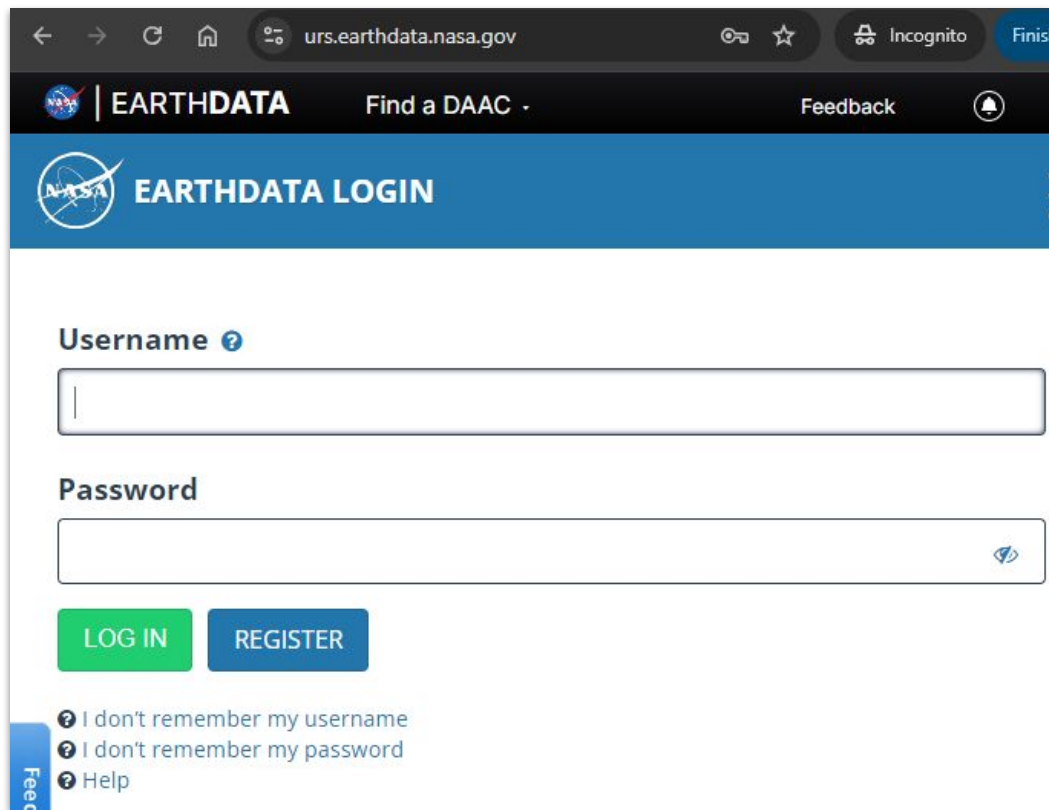
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Exercise: Earthdata Search - NASA Earthdata Login

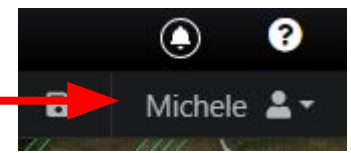
Registration to Earthdata
Login is required for free
access (download) to NASA
Earthdata data products

<https://urs.earthdata.nasa.gov/>



The screenshot shows the NASA Earthdata Login page in a web browser. The browser's address bar displays "urs.earthdata.nasa.gov". The page header includes the NASA logo, the text "EARTHDATA", a search bar for "Find a DAAC", a "Feedback" link, and a notification bell icon. Below the header is a blue banner with the NASA logo and the text "EARTHDATA LOGIN". The main content area contains a "Username" label with a help icon, a text input field, a "Password" label, another text input field with a visibility toggle icon, and two buttons: a green "LOG IN" button and a blue "REGISTER" button. At the bottom, there are three links: "I don't remember my username", "I don't remember my password", and "Help". A "Feedback" link is also visible in the bottom left corner.

Exercise: Earthdata Search



<https://search.earthdata.nasa.gov/search>

Search Results (13 Collections)

GEDI L4A Footprint Level Aboveground Biomass Density, Version 2.1

Showing 4 of 4 matching granules

Granule ID	START	END
GEDI_L4A_AGB_Density_V2_1.GEDI04_A_2022332230617_O22442_04_T09551_02_003_01_V002.h5	2022-11-29 00:15:30	2022-11-29 00:36:46
GEDI_L4A_AGB_Density_V2_1.GEDI04_A_2022323114011_O22295_01_T06527_02_003_01_V002.h5	2022-11-19 11:45:43	2022-11-19 12:00:08
GEDI_L4A_AGB_Density_V2_1.GEDI04_A_2022302111047_O21969_04_T05435_02_003_01_V002.h5	2022-10-29 12:20:00	2022-10-29 12:43:20
GEDI_L4A_AGB_Density_V2_1.GEDI04_A_2022285025145_O21700_01_T00835_02_003_01_V002.h5	2022-10-12 02:57:16	2022-10-12 03:11:40

Search Time: 3.2s

Subscriptions

Download All 4

MONTH: GEDI L4A Footprint Level Aboveground Biomass Density, Version 2.1

May Jun Jul Aug Sep Oct Nov Dec Jan Feb

Exercise: Earthdata Search

<https://search.earthdata.nasa.gov/search>

The screenshot displays the Earthdata Search interface. On the left, the search criteria are defined: the search term is "GEDI", the spatial filter is a "Polygon" (highlighted with a red box and arrow), and the temporal range is from "Start: 2022-09-01 00:00:00" to "Stop: 2022-11-30 23:59:59". Below these are filter options for granules, temporal, and day/night. The main panel shows "Search Results (13 Collections)" for "GEDI L4A Footprint Level Aboveground Biomass Density, Version 2.1", displaying 5 of 5 matching granules. Each granule entry includes its ID, start and end times, and download options. A red arrow points from the "Download All" button in the granule list to a "Download All" button at the bottom right. On the right, a map view shows the search area over the Cape Town region, with green lines indicating the footprint and a red arrow pointing to "Cape Town". The bottom navigation bar shows the current month as August and the search title.

Search Results (13 Collections)

GEDI L4A Footprint Level Aboveground Biomass Density, Version 2.1

Showing 5 of 5 matching granules

Granule ID	START	END
GEDI_L4A_AGB_Density_V2_1.GEDI04_A_20222323114011_O22295_01_T06527_02_003_01_V002.h5	2022-11-17 02:57:43	2022-11-19 12:00:08
GEDI_L4A_AGB_Density_V2_1.GEDI04_A_2022285025145_O21700_01_T00835_02_003_01_V002.h5	2022-10-12 02:57:16	2022-10-12 03:11:40
GEDI_L4A_AGB_Density_V2_1.GEDI04_A_2022271231052_O21496_04_T10469_02_003_01_V002.h5	2022-09-29 00:26:13	2022-09-29 00:32:37
GEDI_L4A_AGB_Density_V2_1.GEDI04_A_2022258132230_O21288_01_T09373_02_003_01_V002.h5	2022-09-15 13:28:04	2022-09-15 13:42:27
GEDI_L4A_AGB_Density_V2_1.GEDI04_A_2022245094404_O21084_04_T07164_02_003_01_V002.h5	2022-09-02 10:59:37	2022-09-02 11:05:39

Download All 5

MONTH << GEDI L4A Footprint Level Aboveground Biomass Density, Version 2.1

May Jun Jul Aug Sep Oct Nov Dec Jan

EARTHDATA SEARCH Find a DAAC

Untitled Project or
5 Granules 1 collection 771.0 MB

GEDI L4A Footprint Level Aboveground Biomass Density, Version 2.1
5 Granules Est. Size 771.0 MB

Edit Options

1 Choose how you want to download your data

Customize with Harmony
Select a Harmony service to customize options

Download all data
Direct download of all selected data

2 Select a service and customize options

Service Choose a service

This service performs variable, temporal, bounding box and polygon spatial subsetting on geographic gridded (L4 and L4) data hosted in OPeNDAP via a combination of the Harmony OPeNDAP Subsetter (HOSS) and Maskfill. Variable temporal and bounding box spatial subsetting is performed via HOSS. If a polygon is specified, HOSS will extract data in a minimally encompassing bounding box, before passing the results to Maskfill. Maskfill will then fill all pixels inside that bounding box, but outside of the user-defined polygon.

Harmony Trajectory Subsetter
Subsetter for Trajectory data, structured as 1-dimensional along-track arrays. Supported data include ICESat-2 (e.g. ice-surface segments), SMAP L2, and GEDI waveform data. Subsetting preserves aggregated segments where applicable. Supports variable, temporal, and spatial subsetting by bounding box or polygon shape files (geojson, esri, KML).

Select a data access method for each collection in your project before downloading.

Download Data

Spatial Subsetting

When enabled, spatial subsetting will trim the data to the selected area range.

Trim output granules to the selected spatial constraint

Selected Area:
11 Points

Variables

Use science keywords to subset your collection granules by measurements and variables.

No variables selected. All variables will be included in download.

Edit Variables

GEDI L4A Footprint Level Aboveground Biomass Density, Version 2.1

Edit Options

< Back to Edit Options

Variable Selection

- BEAM0000
- BEAM0001
- BEAM0010
- BEAM0011
- BEAM0101
- BEAM0110
- BEAM1000
- BEAM1011

GEDI L4A Footprint Level Aboveground Biomass Density, Version 2.1

Status	Access Method	Granules
✔ Complete 100%	Harmony	5 Granules

Your orders are done processing and are available for download.

Service has responded with message:
 • The job has completed with errors. See the errors field for more details.

Download Files - STAC Links - Order Status

Retrieved 4 files for 5 granules

Copy Save Expand

<https://harmony.earthdata.nasa.gov/service-results/harmony-prod-staging/public/ce3fd0d9-4359-41bf-92ef-05da243ac6da/78337832/GEDI4>
<https://harmony.earthdata.nasa.gov/service-results/harmony-prod-staging/public/ce3fd0d9-4359-41bf-92ef-05da243ac6da/78337833/GEDI4>
<https://harmony.earthdata.nasa.gov/service-results/harmony-prod-staging/public/ce3fd0d9-4359-41bf-92ef-05da243ac6da/78337835/GEDI4>
<https://harmony.earthdata.nasa.gov/service-results/harmony-prod-staging/public/ce3fd0d9-4359-41bf-92ef-05da243ac6da/78337836/GEDI4>

Exercise: Earthdata Search

The screenshot displays the Earthdata Search interface. At the top, the 'EARTHDATA SEARCH' header is visible. A search bar on the left contains the text 'bioscape'. Below the search bar, there are filters for Spatial (Rectangle) and Temporal (Start/Stop dates). The main content area shows search results for 'LVIS Facility L2 Geolocated Surface Elevation and Canopy Height Product V001', displaying 20 of 1,402 matching granules. Each granule entry includes a thumbnail, a title, and start/end times. A map on the right shows the Western Cape region of South Africa, with a blue rectangle highlighting the search area. Red arrows point to the search bar, the spatial filter, the first granule title, and the map's search area.

EARTHDATA SEARCH

Find a DAAC -

bioscape

Search Results (4 Collections)

LVIS Facility L2 Geolocated Surface Elevation and Canopy Height Product V001

Showing 20 of 1,402 matching granules

Granule ID	START	END
LVISF2_BioSCape2023_1115_R2404_0_45701.TXT	2023-11-15 12:41:41	2023-11-15 12:41:54
LVISF2_BioSCape2023_1115_R2404_0_45612.TXT	2023-11-15 12:40:12	2023-11-15 12:41:41
LVISF2_BioSCape2023_1115_R2404_0_26399.TXT	2023-11-15 07:19:59	2023-11-15 07:22:45
LVISF2_BioSCape2023_1115_R2404_0_26311.TXT	2023-11-15 07:18:31	2023-11-15 07:19:59
LVISF2_BioSCape2023_1115_R2404_0_26223.TXT	2023-11-15 07:17:03	2023-11-15 07:18:31
LVISF2_BioSCape2023_1115_R2404_0_26136.TXT	2023-11-15 07:15:36	2023-11-15 07:17:03
LVISF2_BioSCape2023_1115_R2404_0_26048.TXT		
LVISF2_BioSCape2023_1115_R2404_0_25937.TXT		

Subscriptions Add Download All 1,402

Search Time: 1.1s

Map labels: Vanhynsdorp, Saldanha, Cape Town, WESTERN CAPE