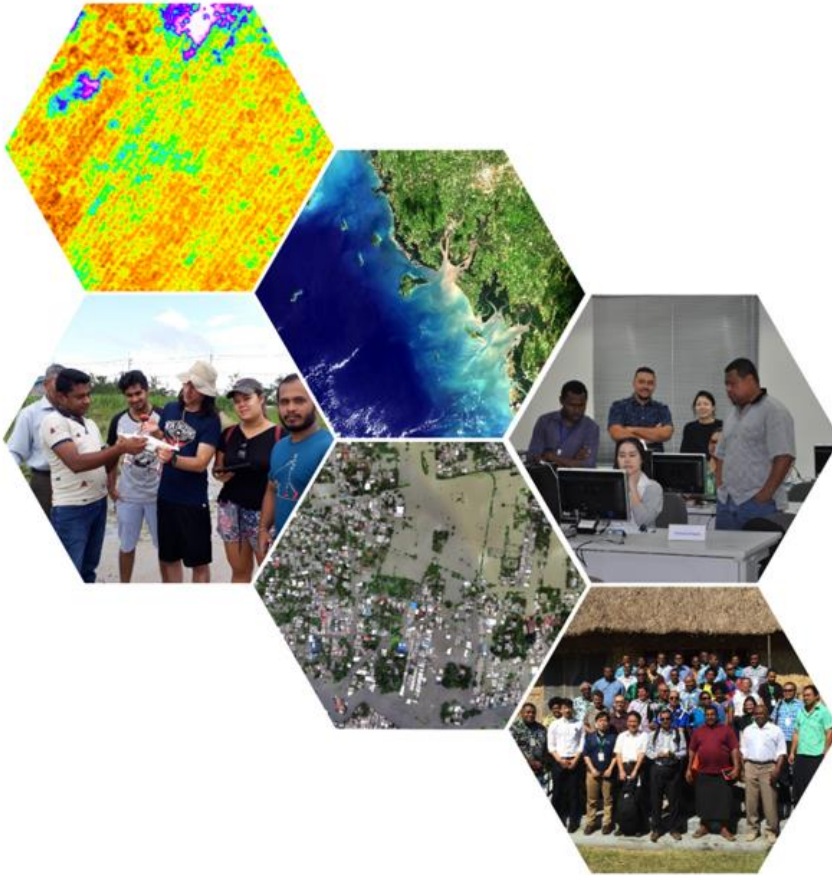


Searching & Obtaining Satellite Data



syams@ait.asia

Geoinformatics Center - AIT



Overview

In this exercise, you will get familiar with some web portals providing free satellite images. In addition, you may also search for GIS data and other disaster-related information.

1. Sentinel Asia Optemis
2. Copernicus Data Space Browser
3. ASF Data Search Vertex
4. Other sources

1. Sentinel Asia Optemis

<https://optemis.sentinel-asia.org/dashboard/users/login>



≡ Nav

🔑 Login

3.1.0-beta

Login

Access to Sentinel Asia Dashboard

Email *

angsana@ait.asia

Password *

Submit

Clear

Recovery Password

1

1. Provide Login information, then click [Submit](#).

2. On the front page, you will see the Latest Emergency request. You can select the event that the data you want to download.

 Nav
  Back to Homepage

Asian Institute of Technology (AIT)

Syams Nashrullah Member

 Logout

4.0.0



Hi Syams Nashrullah, Welcome to Dashboard !

You are already logged in. Your account will expire on 31 March 2026



Latest Emergency

List of 5 the latest requests

Request NO.	Country	Disaster	DPN	DAN	Activation Time	Status
20250723-Uzbekistan-Forest-Fire-00598	 Uzbekistan	Forest Fire	11	62	0 days 07:07:35	Approved
20250725-Kazakhstan-Forest-Fire-00597	 Kazakhstan	Forest Fire	11	62	0 days 07:22:01	Approved
20250724-Kyrgyzstan-Other-00596	 Kyrgyzstan	Other	11	62	2 days 04:38:05	Approved
20250717-Thailand-Flood-00595	 Thailand	Flood	11	62	3 days 04:37:52	Approved
20250718-Philippines-Flood-Landslide-00594	 Philippines	Flood, Landslide	0	0	Ended	Cancelled



Permissions

Allow Modules and Permissions

Modules	Read	Write	Edit	Delete
Constellation Parameter	×	×	×	×
SA Members	×	×	×	×
User Accounts	×	×	×	×



Members

List of your organization members

No	Name	Email	Phone	Last Login
1	Angsana Chaksan	angsana@ait.asia	+66890406417	2025-05-23 02:50:08
2	Syams Nashrullah	syams@ait.asia	66652155537	2025-07-26 13:01:01
3	Thanaphol Boodchuang	thanaphol@ait.asia	0936724741	2025-07-25 16:18:30

3. You can also check the previous activation by clicking to [DAN Management](#) or [EOR Management](#).

DASHBOARD

Overview

MANAGE

EOR Management

DAN Management

Summary

ACCOUNT

Change Password

MAINTENANCE

User Manual

Contact & Report

Email

Nav
Back to Homepage

Asian Institute of Technology (AIT)
Syams Nashrullah Member
Logout
4.0.0

EMERGENCY REQUEST
EOR Management Datatables

Show 10 entries
Search:

NO.	COUNTRY	REQUESTER	DISASTER	AREA OF INTEREST	CREATE AT	PERIOD	STATUS	ACTIONS
20250630-Nepal-Flood-00588	Nepal	Name: Joshan Maharjan Phone: 9841215706 Email: joshanster@gmail.com	Flood		2025-07-01 13:20:40 24 days 23:43:33	2025-06-30 6:00	Approved	
20250627-Kyrgyzstan-Other-00587	Kyrgyzstan	Name: Ulan Abdybachaev Phone: 996706385927 Email: u.abdybachaev@caia.g.kg	Other		2025-06-30 04:34:42 26 days 08:29:31	2025-06-27 17:30	Approved	
20250621-Vietnam-Flood-Landslide-Storm-00586	Vietnam	Name: Makoto Ikeda Phone: 81782625540 Email: mi-ikeda@adrc.asia	Flood, Landslide, Storm		2025-06-22 13:12:50 33 days 23:51:23	2025-06-21 2:00	Approved	
20250617-Indonesia-Volcano-00585	Indonesia	Name: Virgilius Rivan Seran Phone: 6281335413141 Email: Indonesia_RSO_UNSPIDER@brin.go.id	Volcano		2025-06-19 16:38:46 36 days 20:25:27	2025-06-17 17:35	Approved	
20250612-Vietnam-Flood-00584	Vietnam	Name: Chihori Tatebe	Flood,		2025-06-12 03:52:49	2025-06-12 3:00	Approved	

4. Click the **Download** button to download the data from the data provider. You may have to select from a list of available datasets.

Organization	Area (Km ²)	Status				Storage Shapefile & Datafile	Shapefile	Data																																																												
		Acknowledge	Planned	Processed	Up																																																															
 Indian Space Research Organization (ISRO)	0	✓	✓	✓		Download <table><tr><th>File Name</th><th>Size (MB)</th><th>Disk</th><th>Date</th></tr><tr><td>0379e363-e436-4987-a3a8-231...</td><td>458.28789</td><td>20250630 Nepal Flood-00588</td><td>2025-07-11 06:42:08</td></tr><tr><td>17ede5d2-esa7-4c01-867b-e87...</td><td>465.395404</td><td>20250630 Nepal Flood-00588</td><td>2025-07-11 07:55:25</td></tr><tr><td>5c0f9ead-55a3-4335-a044-b56...</td><td>489.957424</td><td>20250630 Nepal Flood-00588</td><td>2025-07-11 07:15:54</td></tr><tr><td>8b988d5e-bba7-4732-9532-f9d...</td><td>2496.713135</td><td>20250630 Nepal Flood-00588</td><td>2025-07-11 07:37:39</td></tr><tr><td>83a6368f-f506-4b63-bc4b-3c3...</td><td>454.229146</td><td>20250630 Nepal Flood-00588</td><td>2025-07-04 08:23:39</td></tr><tr><td>a0789f58-5267-45d1-9644-ca4...</td><td>2761.354785</td><td>20250630 Nepal Flood-00588</td><td>2025-07-04 08:31:15</td></tr><tr><td>ae929a0-82f1-4606-89f4-731...</td><td>2755.15943</td><td>20250630 Nepal Flood-00588</td><td>2025-07-04 08:22:14</td></tr><tr><td>b5ed545-bc81-4471-e052-789...</td><td>2695.600219</td><td>20250630 Nepal Flood-00588</td><td>2025-07-11 07:50:05</td></tr><tr><td>a5b02b5a-e380-4a01-bd7c-26...</td><td>2689.66195</td><td>20250630 Nepal Flood-00588</td><td>2025-07-11 07:24:27</td></tr><tr><td>e5bce0bc-f561-4c30-f78c-012...</td><td>2696.510076</td><td>20250630 Nepal Flood-00588</td><td>2025-07-11 07:31:03</td></tr><tr><td>4dcd57b1-a034-4a54-9320-262...</td><td>2698.430714</td><td>20250630 Nepal Flood-00588</td><td>2025-07-11 07:44:07</td></tr><tr><td>eb33f8cd-991e-4d79-837e-bdc...</td><td>2693.885815</td><td>20250630 Nepal Flood-00588</td><td>2025-07-11 07:58:09</td></tr><tr><td>ec034b40-84a8-4f10-e17a-3ca...</td><td>741.396307</td><td>20250630 Nepal Flood-00588</td><td>2025-07-11 08:00:27</td></tr><tr><td>04ab0789-0a0b-4902-a093-704...</td><td>457.487702</td><td>20250630 Nepal Flood-00588</td><td>2025-07-05 12:31:26</td></tr></table>	File Name	Size (MB)	Disk	Date	0379e363-e436-4987-a3a8-231...	458.28789	20250630 Nepal Flood-00588	2025-07-11 06:42:08	17ede5d2-esa7-4c01-867b-e87...	465.395404	20250630 Nepal Flood-00588	2025-07-11 07:55:25	5c0f9ead-55a3-4335-a044-b56...	489.957424	20250630 Nepal Flood-00588	2025-07-11 07:15:54	8b988d5e-bba7-4732-9532-f9d...	2496.713135	20250630 Nepal Flood-00588	2025-07-11 07:37:39	83a6368f-f506-4b63-bc4b-3c3...	454.229146	20250630 Nepal Flood-00588	2025-07-04 08:23:39	a0789f58-5267-45d1-9644-ca4...	2761.354785	20250630 Nepal Flood-00588	2025-07-04 08:31:15	ae929a0-82f1-4606-89f4-731...	2755.15943	20250630 Nepal Flood-00588	2025-07-04 08:22:14	b5ed545-bc81-4471-e052-789...	2695.600219	20250630 Nepal Flood-00588	2025-07-11 07:50:05	a5b02b5a-e380-4a01-bd7c-26...	2689.66195	20250630 Nepal Flood-00588	2025-07-11 07:24:27	e5bce0bc-f561-4c30-f78c-012...	2696.510076	20250630 Nepal Flood-00588	2025-07-11 07:31:03	4dcd57b1-a034-4a54-9320-262...	2698.430714	20250630 Nepal Flood-00588	2025-07-11 07:44:07	eb33f8cd-991e-4d79-837e-bdc...	2693.885815	20250630 Nepal Flood-00588	2025-07-11 07:58:09	ec034b40-84a8-4f10-e17a-3ca...	741.396307	20250630 Nepal Flood-00588	2025-07-11 08:00:27	04ab0789-0a0b-4902-a093-704...	457.487702	20250630 Nepal Flood-00588	2025-07-05 12:31:26		
File Name	Size (MB)	Disk	Date																																																																	
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 Mohammed Bin Rashid Space Centre (MBRSC)	0																																																																			
 Japan Aerospace Exploration Agency (JAXA)	0	✓	✓	✓																																																																
 Korea Aerospace Research Institute (KARI)	0																																																																			
 Centre for Remote Imaging, Sensing and Processing (CRISP)	0																																																																			
 Geo-Informatics and Space Technology Development Agency (GISTDA)	0																																																																			
 Vietnamese Academy of Science and Technology (VAST)	0																																																																			
 Secretariat	0																																																																			
 Philippine Space Agency (PhilSA)	0																																																																			
 Taiwan Space Agency (TASA)	0	✓																																																																		
 National Company «Kazakhstan Gharysh Sapary» (KGS)	0																																																																			

5. Check the Message Box to be informed of the available dataset.

5. Check the Message Box to be informed of the available dataset.

SENTINEL ASIA

EMERGENCY OBSERVATION REQUEST (EOR) FORM (1/1)

Requester (your name and organization)

Your name

Joshua Maharjan

Your organization

Department of Hydrology and Meteorology (DHM), Ministry of Energy, Water Resources and Irrigation

Membership:

☒ JPT member ☐ ADRC member

Your phone

9841215706

Message Box

5

MS

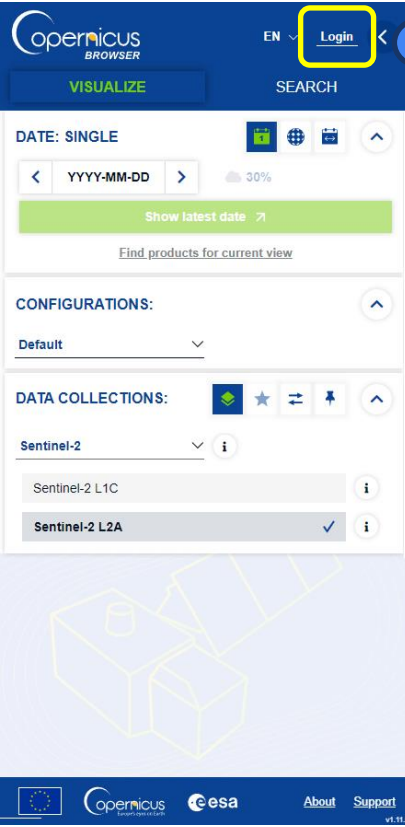
Masami Sugiura · 24 days ago
GLIDE number and URL are as follow;
FL-2025-000102-NPL
<https://glidenumber.net/glide/public/search/details.jsp?glide=23552&record=1&last=8454>

Reply

2. Copernicus Data Space Browser

1. Click [Login](#) to access the Copernicus Browser.

<https://browser.dataspace.copernicus.eu/>



Copernicus BROWSER

EN **Login**

VISUALIZE **SEARCH**

DATE: SINGLE

< YYYY-MM-DD > 30%

Show latest date ↗

Find products for current view

CONFIGURATIONS:

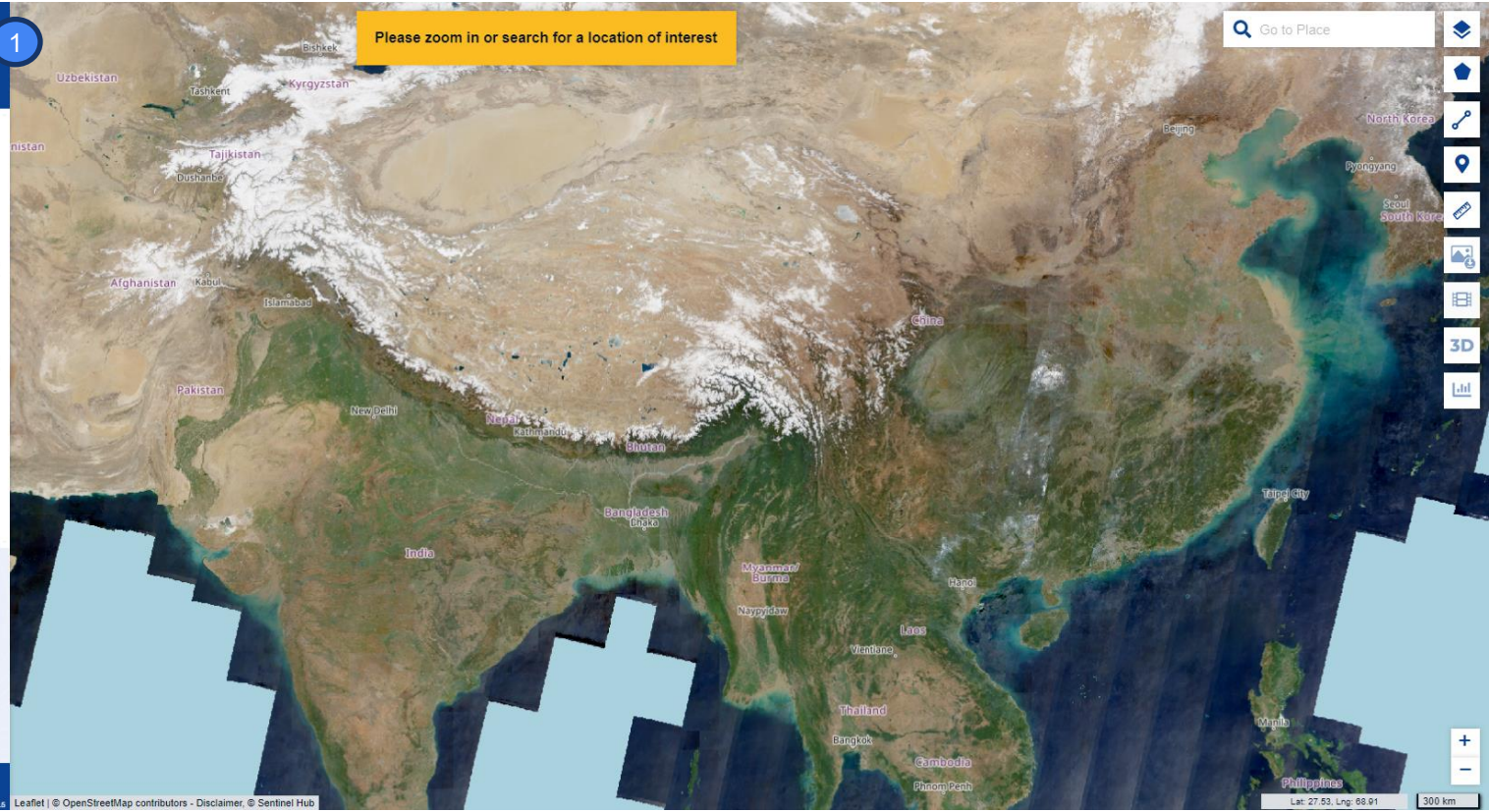
Default ▾

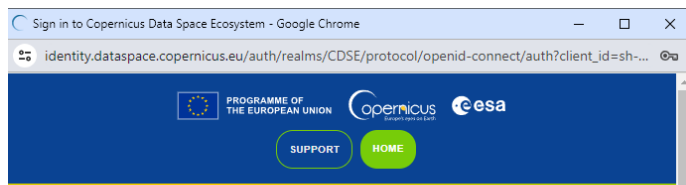
DATA COLLECTIONS:

Sentinel-2 ▾

Sentinel-2 L1C ⓘ

Sentinel-2 L2A ✓ ⓘ





Login to access your account

Email

syams@ait.asia

Password

[Forgot Password?](#)

LOGIN

2. If you already have an account, log in with your email address and password.

Register and create an account for free in 60 seconds

- ✓ Access a variety of Earth observation data
- ✓ Manage your personal settings
- ✓ Follow your credits and orders

3

REGISTER

3. If you don't have an account yet, please register first.



Register form

* Required fields

First name *

syams

Last name *

Nashrullah

Email *

syams@ait.asia

Password *

Confirm password *

Country *

Thailand

Type of user (you are your organisation is ?) *

Research & education organisation

Thematic activity

Land

Purpose of use

Research

☒ Accept [terms and conditions](#) and [privacy policy](#)

☒ Give the permission to contact you at the email address provided during the registration for the purpose of possible user surveys

☐ I am also interested in accessing Copernicus Contributing Missions data
The approval of your registration request depends on adherence to the [Copernicus Contributing Missions data policy](#). Registration under the Public user category is automatically approved.
More information can be found at [Copernicus Contributing Missions Online](#)

☒ Subscribe to the CDSE monthly mailing to receive the latest updates in your mailbox

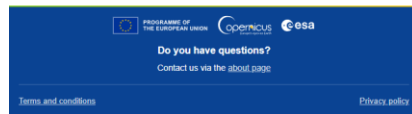
☒ I'm not a robot

REGISTER

[Back to Login](#)

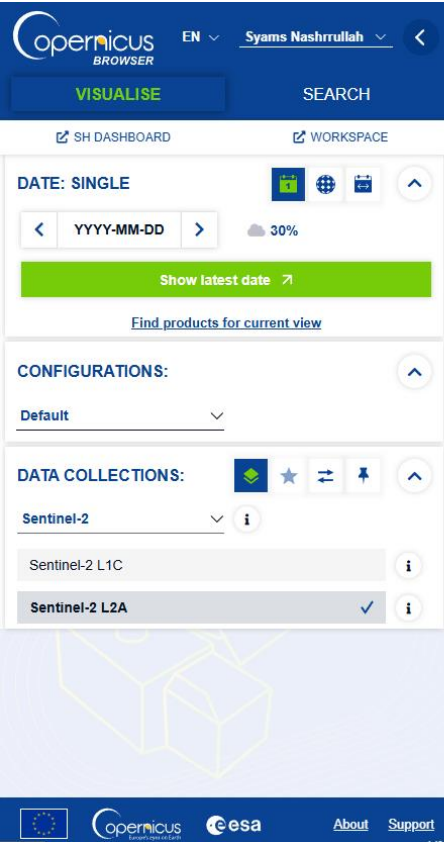
5

4. Provide detailed information for your new account.
5. Click [Register](#).
6. Check your email to complete registration



6. Define your Area of Interest (AOI) using the tools provided on the right side.

- Enter the name of the area to limit the search window
- You can define the AOI by drawing a point, line, or polygon.
- **Alternative:** You can upload a KML/KMZ, GPX, WKT (in EPSG:4326), or GEOJSON/JSON file to create the AOI.



Copernicus BROWSER

EN ▾ Syams Nashrullah ▾

VISUALISE **SEARCH**

SH DASHBOARD WORKSPACE

DATE: SINGLE

YYYY-MM-DD 30%

Show latest date ↗

Find products for current view

CONFIGURATIONS:

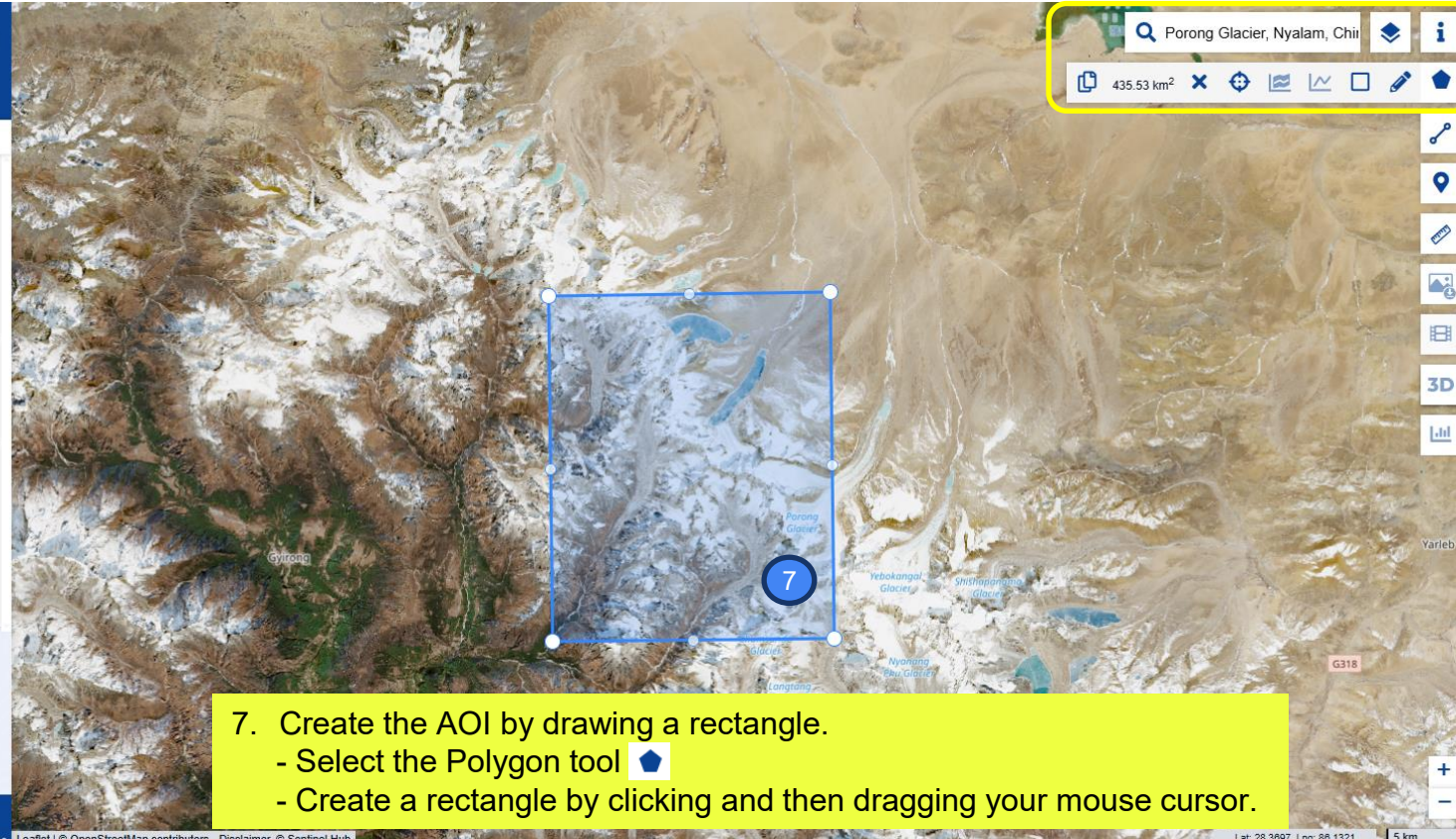
Default ▾

DATA COLLECTIONS:

Sentinel-2 ▾

Sentinel-2 L1C

Sentinel-2 L2A ✓



Porong Glacier, Nyalam, Chhi

435.53 km²

7

Yarleb

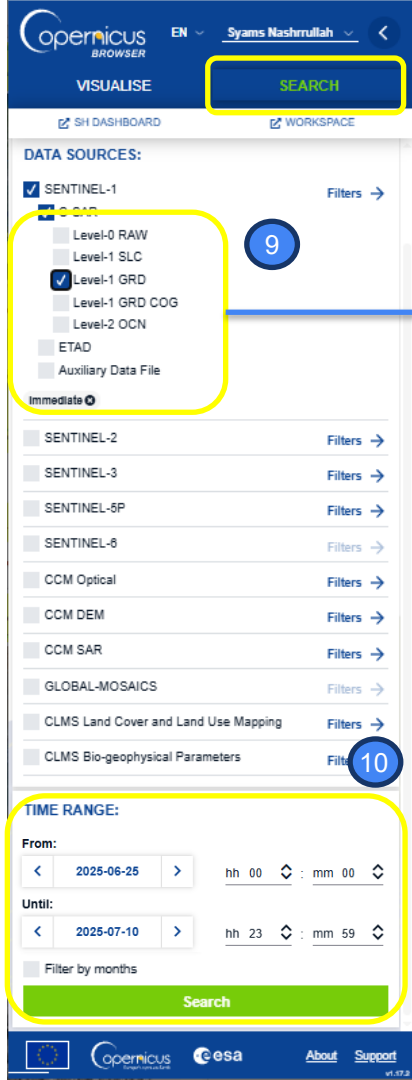
G318

Lat: 28.3697, Lng: 86.1321

5 km

7. Create the AOI by drawing a rectangle.

- Select the Polygon tool
- Create a rectangle by clicking and then dragging your mouse cursor.



The screenshot shows the Copernicus Browser interface. At the top, the 'SEARCH' button is highlighted with a yellow box and a blue circle with the number 8. Below the search bar, the 'DATA SOURCES' section is visible. A yellow box highlights the 'SENTINEL-1' section, and a blue circle with the number 9 points to the 'Level-1 GRD' option, which is selected. A blue arrow points from this option to the 'SENTINEL-1' filter panel on the right. At the bottom, the 'TIME RANGE' section is highlighted with a yellow box, and a blue circle with the number 10 points to the 'Search' button.

8. On the left side of the browser panel, click **Search**.

9. We will search for Sentinel-1 data.

- Select SENTINEL-1
- Select Level-1 GRD

Optional: You can provide a more detailed search by clicking the **Filters** button.

- Select the options for Satellite platform, Orbit direction, Relative orbit number, Acquisition mode, Beam ID, and Polarisation mode.

10. We will select the time range of data based on the Sentinel Asia activation for the observation of the GLOF event in Nepal.

- Select the time range from **2025-06-25 to 2025-07-10**.
- Click **Search**.

You may see several scenes of Sentinel-1 images that cover the AOI.

11. Click one of the scenes. The selected scene will be highlighted in green, and the corresponding satellite images will pop up in the **Results** window.

12. Download your selected scenes by clicking the  icon in the **Results** window.

OpenPernic BROWSER

Visualise **SEARCH**

SH DASHBOARD WORKSPACE

Search Showing 4 results

Select all Add to workspace

S1A_IW_GRDH_1SDV_20250709T122227_20250709T12252_060007_07746D_F781.SAFE
Mission: SENTINEL-1 Instrument: SAR Size: 1656MB
Sensing time: 2025-07-09T12:22:27.402399Z

S1A_IW_GRDH_1SDV_20250705T001933_20250705T001958_059941_077224_9A87.SAFE
Mission: SENTINEL-1 Instrument: SAR Size: 1639MB
Sensing time: 2025-07-05T00:19:33.221862Z

S1A_IW_GRDH_1SDV_20250630T001126_20250630T001151_059868_076FA5_4CA6.SAFE
Mission: SENTINEL-1 Instrument: SAR Size: 1639MB
Sensing time: 2025-06-30T00:11:26.436660Z

S1A_IW_GRDH_1SDV_20250627T122228_20250627T122253_059832_076E5B_3209.SAFE
Mission: SENTINEL-1 Instrument: SAR Size: 1656MB
Sensing time: 2025-06-27T12:22:28.117670Z

Visualise VV&VH IW

Results

Showing 1 result

S1A_IW_GRDH_1SDV_20250705T001933_20250705T001958_059941_077224_9A87.SAFE
Mission: SENTINEL-1 Instrument: SAR Size: 1639MB
Sensing time: 2025-07-05T00:19:33.221862Z

Visualise VV&VH IW

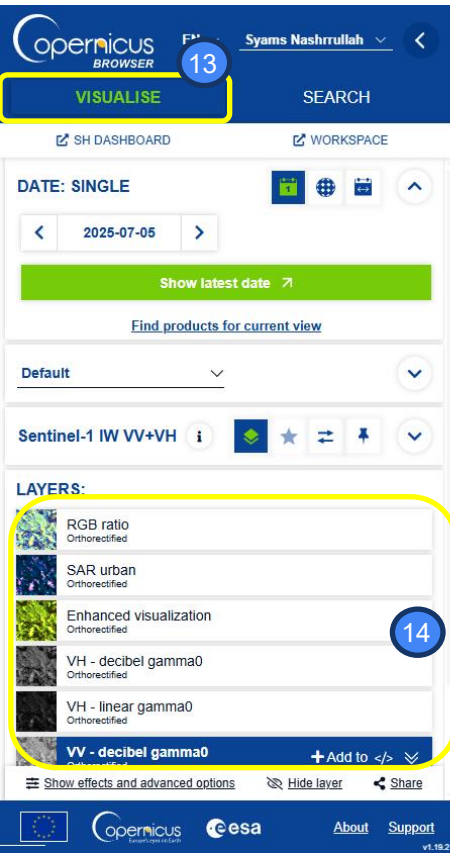
Porong Glacier, Nyalam, Chii

435.53 km²

29.132 Lat: 29.138, Lng: 83.066

50 km

13. To explore the data, you can click the **Visualize** button in any of the result image scenes.



Copernicus BROWSER

Syams Nashrullah

VISUALISE

SEARCH

SH DASHBOARD WORKSPACE

DATE: SINGLE

2025-07-05

Show latest date

Find products for current view

Default

Sentinel-1 IW VV+VH

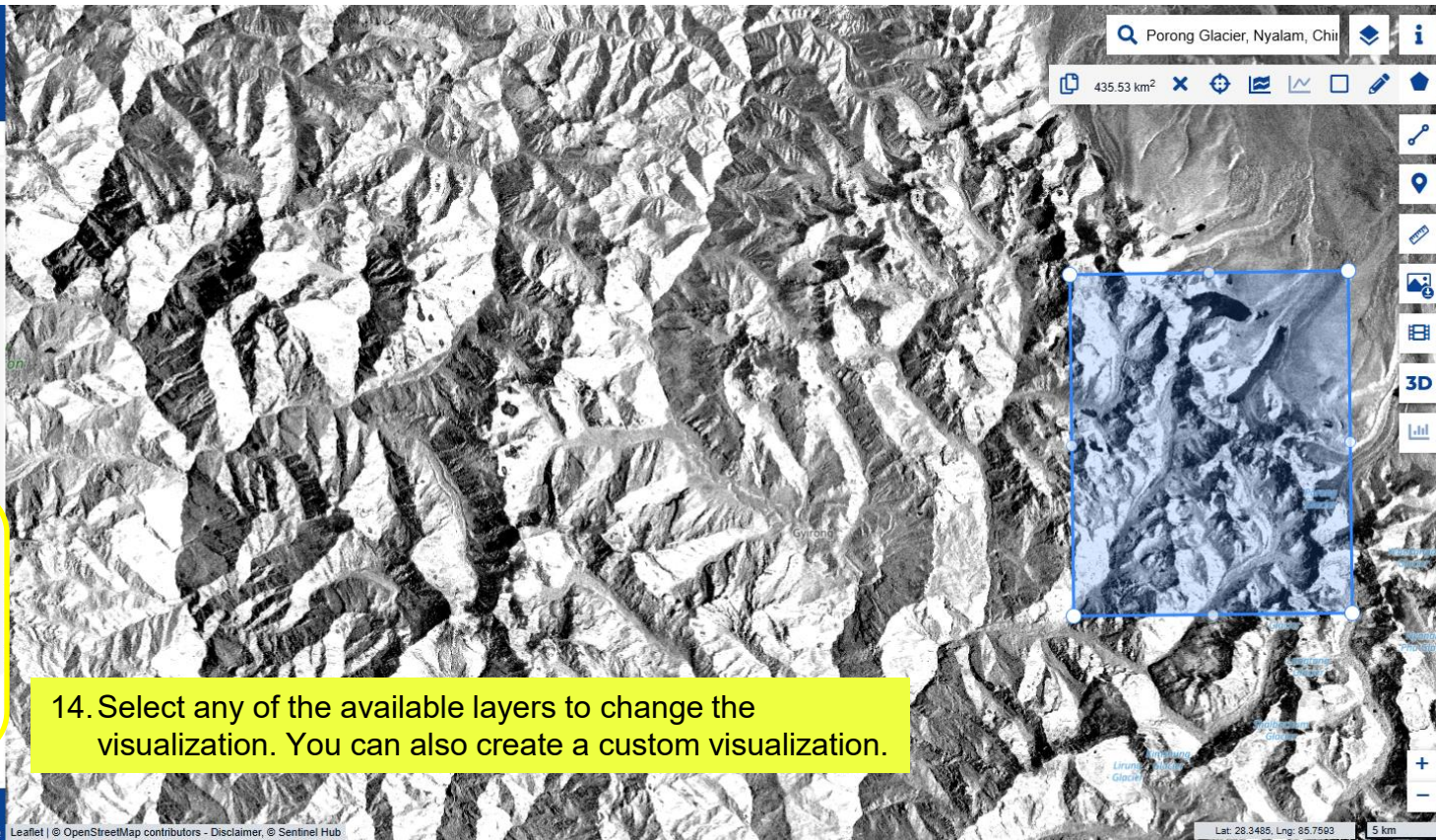
LAYERS:

- RGB ratio
- SAR urban
- Enhanced visualization
- VH - decibel gamma0
- VH - linear gamma0
- VV - decibel gamma0**

+ Add to </>

Show effects and advanced options Hide layer Share

European Commission Copernicus ESA About Support



Porong Glacier, Nyalam, Chi

435.53 km²

3D

Lat: 28.3485, Lng: 85.7593

15 km

14. Select any of the available layers to change the visualization. You can also create a custom visualization.

3. ASF Data Search Vertex

<https://search.asf.alaska.edu/>

Other DAACs -

Search Type

Geographic Search

Dataset

Sentinel-1

Area of Interest - WKT

Start Date

MM/DD/YYYY

End Date

MM/DD/YYYY

Filters

...

SEARCH

250

of 19,081,150 Files

On Demand

Downloads

Help

English

Sign In

Feedback

Map View

+

-

Layers

Area Of Interest

Opacity

100%

lat 27.7237°

lon 84.3477°

100 km

1

Click to start drawing

2

2. If you already have Earthdata account, sign in with your username and password.

3. If not, please register first.

3

3. If not, please register first.

Earthdata Login - Google Chrome

urs.earthdata.nasa.gov/oauth/authorize?response_type=code&client_id=BO_n7nT...

Alaska Satellite Facility: making remote-sensing data accessible

Username

hashr1

Password

.....

Stay signed in (this is a private workstation)

LOG IN

REGISTER

I don't remember my username

I don't remember my password

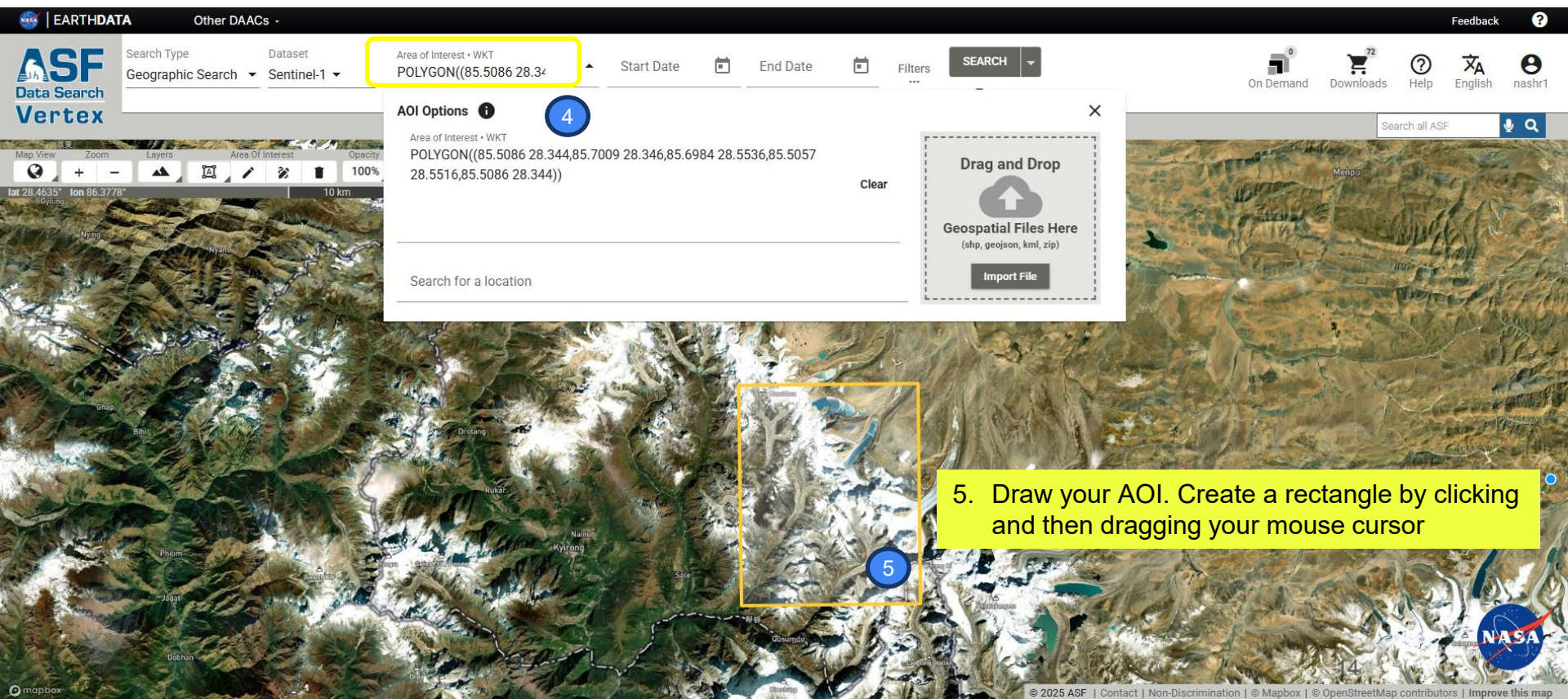
Help

Why must I register?

© 2024 ASF | Contact | Non-Discrimination | Mapbox | OpenStreetMap contributors | Improve this map

4. Define your Area of Interest (AOI).

- You can define the AOI by drawing a point, line, or polygon.
- **Alternative:** You can upload a .shp, .geojson, .kml, or .zip file to create the AOI.



The screenshot shows the ASF Data Search Vertex web application. The top navigation bar includes the NASA logo, 'EARTHDATA', and 'Other DAACs'. The main search area has a 'Search Type' dropdown set to 'Geographic Search' and a 'Dataset' dropdown set to 'Sentinel-1'. The 'Area of Interest - WKT' field is highlighted with a yellow box and contains the text 'POLYGON((85.5086 28.346, 85.5086 28.346, 85.5086 28.346, 85.5086 28.346))'. To the right of this field are input fields for 'Start Date', 'End Date', and 'Filters', followed by a 'SEARCH' button. Below the search bar, there is a 'Map View' section with a map of a mountainous region. A yellow rectangle is drawn on the map, indicating the Area of Interest. A blue circle with the number '5' is placed on the map near the rectangle. A 'Drag and Drop' box is visible on the right side of the map, with the text 'Drag and Drop Geospatial Files Here (shp, geojson, kml, zip)' and an 'Import File' button. A blue circle with the number '4' is placed on the 'AOI Options' dropdown menu. The bottom of the page features a footer with copyright information: '© 2025 ASF | Contact | Non-Discrimination | © Mapbox | © OpenStreetMap contributors | Improve this map'.

- #### 5. Draw your AOI. Create a rectangle by clicking and then dragging your mouse cursor

6. Select the satellite data.

- ASF Vertex offers several options for satellite data, including Sentinel-1, ALOS PALSAR, ALOS AVNIR-2, and more.

NASA | EARTHDATA | Other DAACs

ASF
Data Search
Vertex

Search Type
Geographic Search

Map View | Zoom | Layers | Area Of Interest

lat 28.6122° lon 85.2235°



mapbox

Sentinel-1

Sentinel-1 includes twin satellites that each carry C-band synthetic aperture radar (SAR), together providing all-weather, day-and-night imagery of Earth's surface.

[More Info](#)

2014 to Present



[ESA](#)

S1 Bursts (beta)

Sentinel-1 BURST products are the individual radar pulse responses that make up the 3 sub-swaths of every Sentinel-1 SLC product.

[More Info](#)

2014 to Present



[ESA](#)

OPERA-S1

Sentinel-1 RTC backscatter products providing near-global coverage, as well as Sentinel-1 CSLC products covering North America.

[More Info](#)

2014 to Present



[OPERA-JPL](#)

ALOS-2

ALOS-2 PALSAR-2 ScanSAR uses an L-Band instrument to acquire wide-beam level 1.1 (SLC) products with coverage areas revisited every 14 days.

[More Info](#)

2014 to Present



[JAXA/METI](#)

ALOS PALSAR

PALSAR was developed to contribute to the fields of mapping, precise regional land-coverage observation, disaster monitoring, and resource surveying.

[More Info](#)

2006 to 2011



[JAXA/METI](#)

6

Feedback

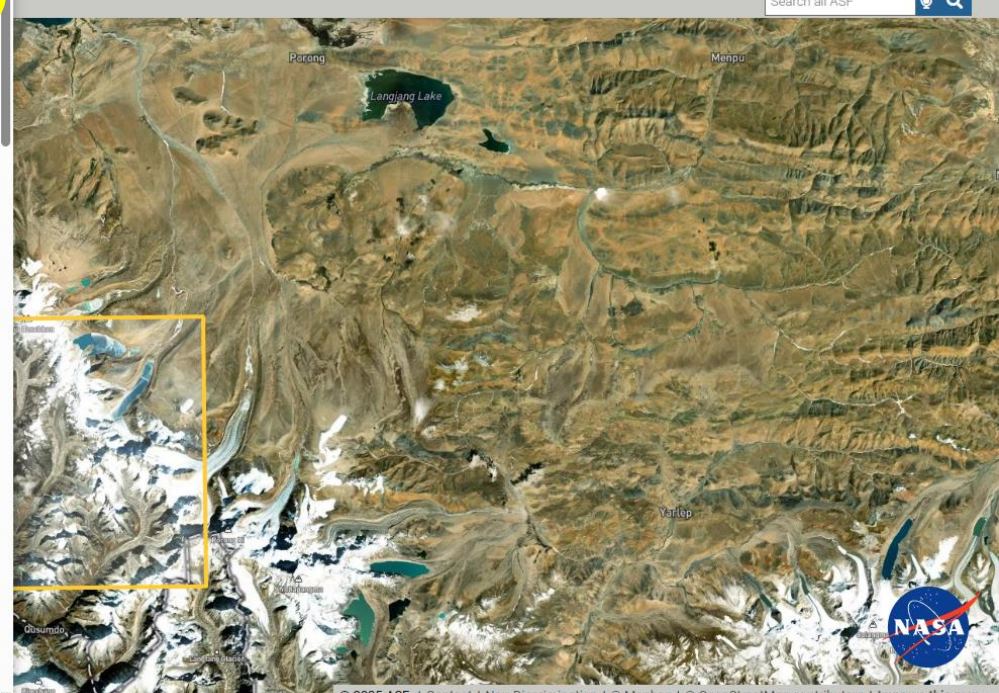
End Date  Filters ...

SEARCH

MM/DD/YYYY 250 of 5,854 Files

On Demand Downloads Help English nashr1

Search all ASF  



NASA

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7. Define the observation date.
- Start Date and End Date.


Other DAACs



Search Type

Geographic Search

Dataset

Sentinel-1

Area of Interest - WKT

POLYGON((85.5086 28.34

Start: Jun 24 2025

End: Jul 10 2025

7

Start Date

6/25/2025

MM/DD/YYYY

8

End Date

7/10/2025

MM/DD/YYYY

Filters

250 of 26 Files

SEARCH

On Demand

Downloads

Help

English

nashr1

Feedback

Map View

Zoom

Layers

Area Of Interest

Opacity

lat 28.6255°

lon 85.8974°

10 km

8

You can click **Filters** button to give additional information to the requested data.

9. Select additional filters if needed.

Search Filters

Area of Interest Options

Area of Interest - WKT

POLYGON((85.5086 28.344,85.7009 28.346,85.6984 28.5536,85.5057 28.5516,85.5086 28.344))

Clear

Drag and Drop

Geospatial Files Here

(shp, geosjon, kml, zip)

Import File

Search for a location

Date Filters

Start Date

6/25/2025

MM/DD/YYYY

End Date

7/10/2025

MM/DD/YYYY

Seasonal Search

Additional Filters

L1 Detected High-Res ...

1/14 file types selected

Beam Mode

0/9 beam modes selected

Polarization

0/8 polarizations selected

Direction

0/2 flight directions selected

Subtype

0/3 subtypes selected

Group ID

Path and Frame Filters

SEARCH

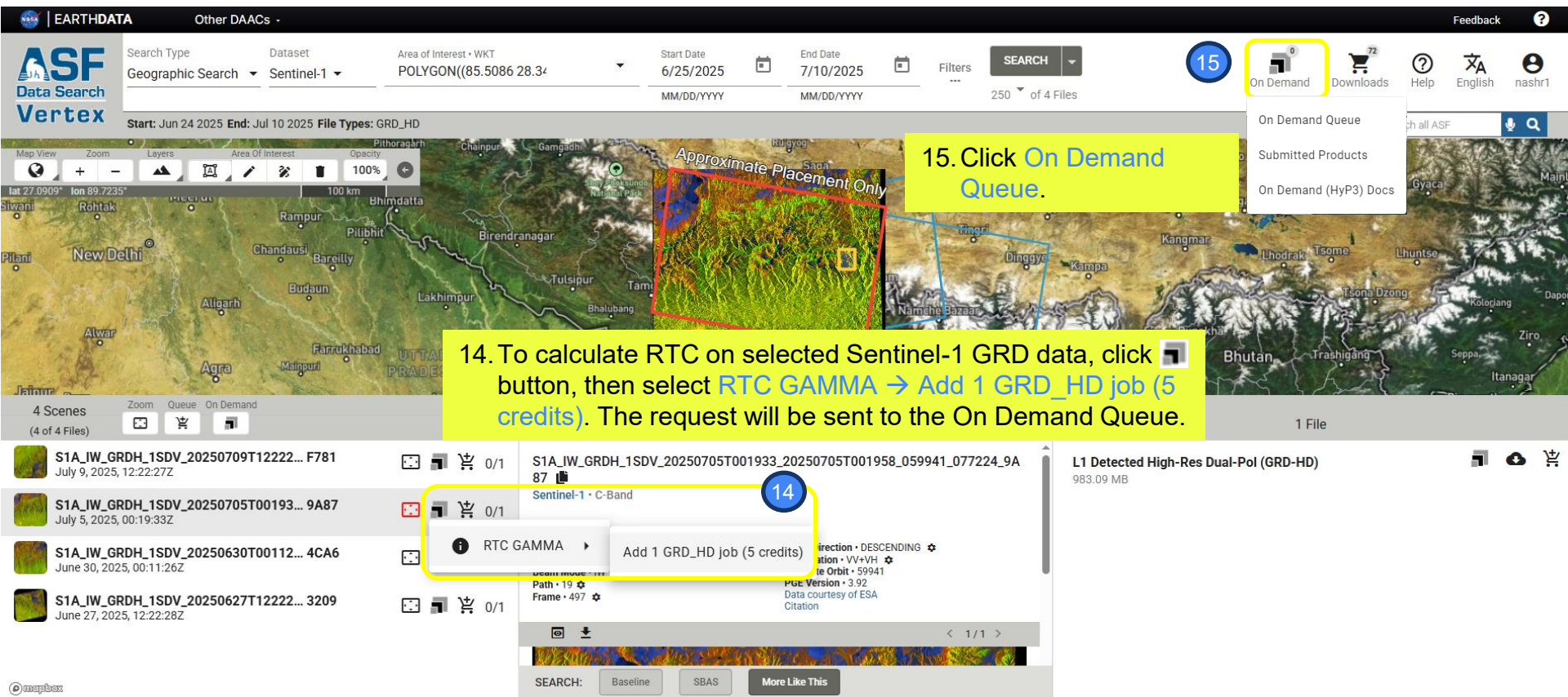
10

10. Click **Search** to start the data searching.

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Other than downloading the satellite data, ASF Vertex also provides on-demand services such as:

- Radiometric Terrain Correction (RTC) for a single Sentinel-1 GRD data.
- Interferometric SAR (InSAR) for Sentinel-1 SLC data pair.
- autoRIFT for Sentinel-1 SLC data pair.

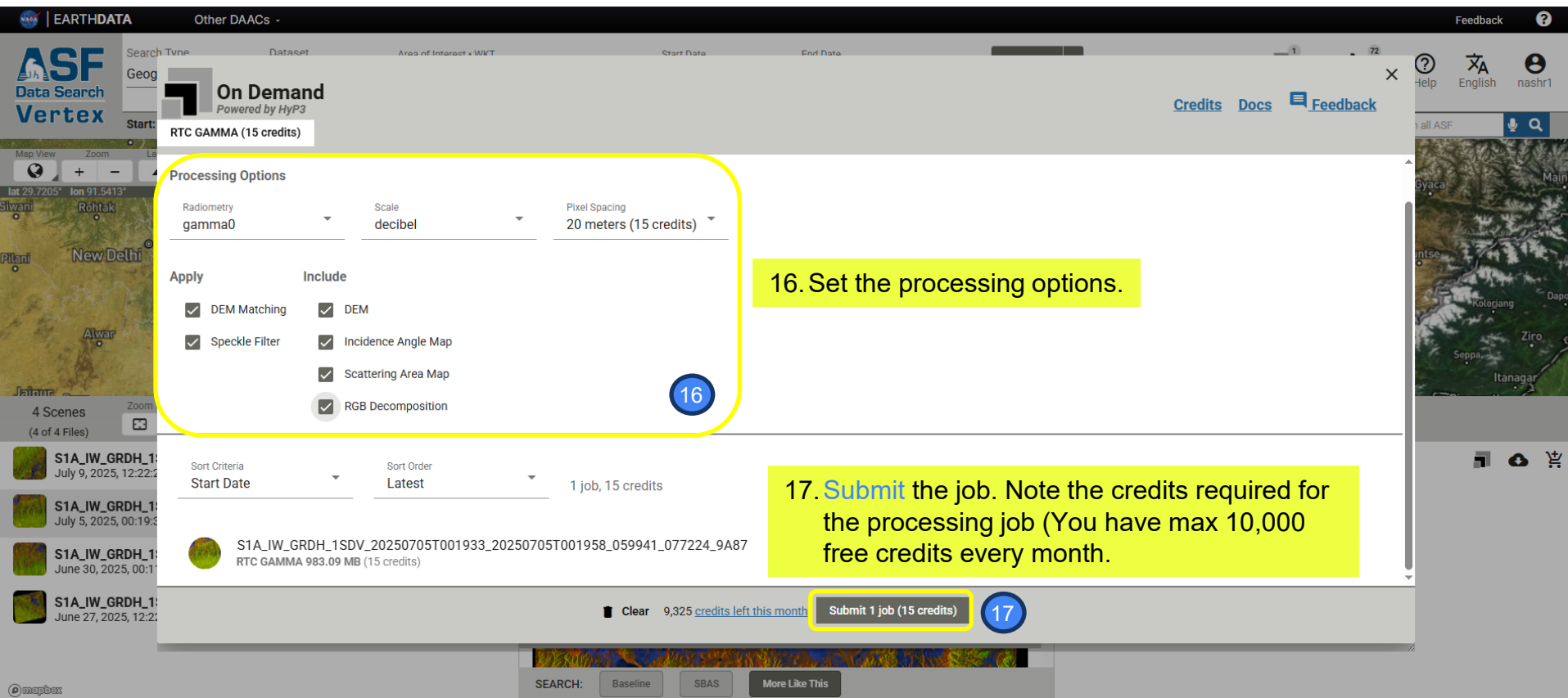


The screenshot displays the ASF Data Search Vertex interface. At the top, there's a navigation bar with 'EARTHDATA' and 'Other DAACs'. Below it, search filters are set: Search Type 'Geographic Search', Dataset 'Sentinel-1', Area of Interest 'POLYGON(85.5086 28.34)', Start Date '6/25/2025', and End Date '7/10/2025'. A search button is visible. The main area shows a map of the region around New Delhi, India, with a red box indicating the 'Approximate Placement Only' of the selected data. Below the map, a list of search results is shown, including file names, dates, and sizes. A yellow callout box highlights the 'On Demand' button in the top right corner, and another yellow callout box highlights the 'RTC GAMMA' button in the search results list. A third yellow callout box highlights the 'Add 1 GRD_HD job (5 credits)' button in the search results list.

15. Click On Demand Queue.

14. To calculate RTC on selected Sentinel-1 GRD data, click **RTC GAMMA** button, then select **RTC GAMMA → Add 1 GRD_HD job (5 credits)**. The request will be sent to the On Demand Queue.

ASF's Sentinel-1 On-Demand RTC products are generated using GAMMA Software.



The screenshot displays the ASF Data Search Vertex web application. The 'On Demand' processing options are highlighted with a yellow box and a blue circle labeled '16'. The options include:

- Radiometry:** gamma0
- Scale:** decibel
- Pixel Spacing:** 20 meters (15 credits)
- Apply:**
 - ☒ DEM Matching
 - ☒ Speckle Filter
- Include:**
 - ☒ DEM
 - ☒ Incidence Angle Map
 - ☒ Scattering Area Map
 - ☒ RGB Decomposition

Below the processing options, the job details are shown:

- Sort Criteria:** Start Date
- Sort Order:** Latest
- 1 job, 15 credits**

The job list shows a single job:

- S1A_IW_GRDH_1SDV_20250705T001933_20250705T001958_059941_077224_9A87**
- RTC GAMMA 983.09 MB (15 credits)**

At the bottom, the interface shows the 'Submit 1 job (15 credits)' button, which is highlighted with a yellow box and a blue circle labeled '17'. The total credits available are 9,325.

16. Set the processing options.

17. [Submit](#) the job. Note the credits required for the processing job (You have max 10,000 free credits every month).

4. Other Data Sources

Satellite data sources

- Copernicus Data Space Browser: <https://browser.dataspace.copernicus.eu/>
- ASF Data Search Vertex: <https://search.asf.alaska.edu/>
- NASA's Earth Data: <https://search.earthdata.nasa.gov/search>
- USGS's Earth Explorer: <https://earthexplorer.usgs.gov/>
- Google Earth Engine: <https://earthengine.google.com/>
- SentinelHub: <https://apps.sentinel-hub.com/eo-browser/>

GIS data sources

- OpenStreetMap: <https://download.geofabrik.de/>
- Humanitarian Data Exchange (HDX): <https://data.humdata.org/>
- DEM: <https://opentopography.org/>
- WorldPop: <https://www.worldpop.org/>
- Land Cover: <https://livingatlas.arcgis.com/landcover/>
- Building Footprints: <https://sites.research.google/gr/open-buildings/>
- Global Administrative Areas (GADM): <http://www.gadm.org/country>

Disaster maps

- Sentinel Asia: <https://sentinel-asia.org/>
- International Disaster Charter: <https://disasterscharter.org/>

THANK YOU

Geoinformatics Center, Asian Institute of Technology

