

How to Access Sentinel Data from Copernicus Open Access Hub



sentinel-2



sentinel-1

Synthetic Aperture Radar (SAR)

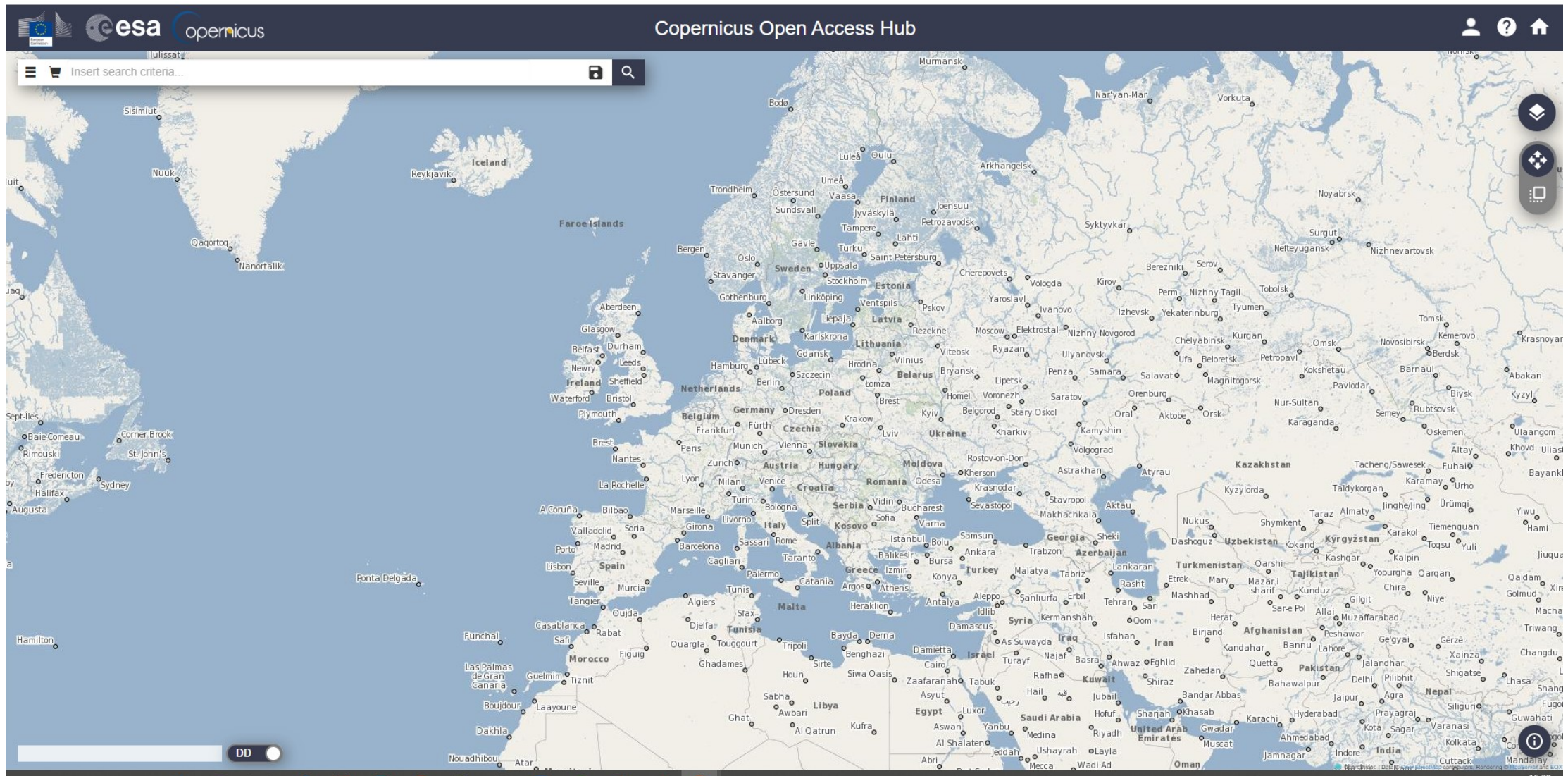
*Multispectral
(e.g. Optical)*



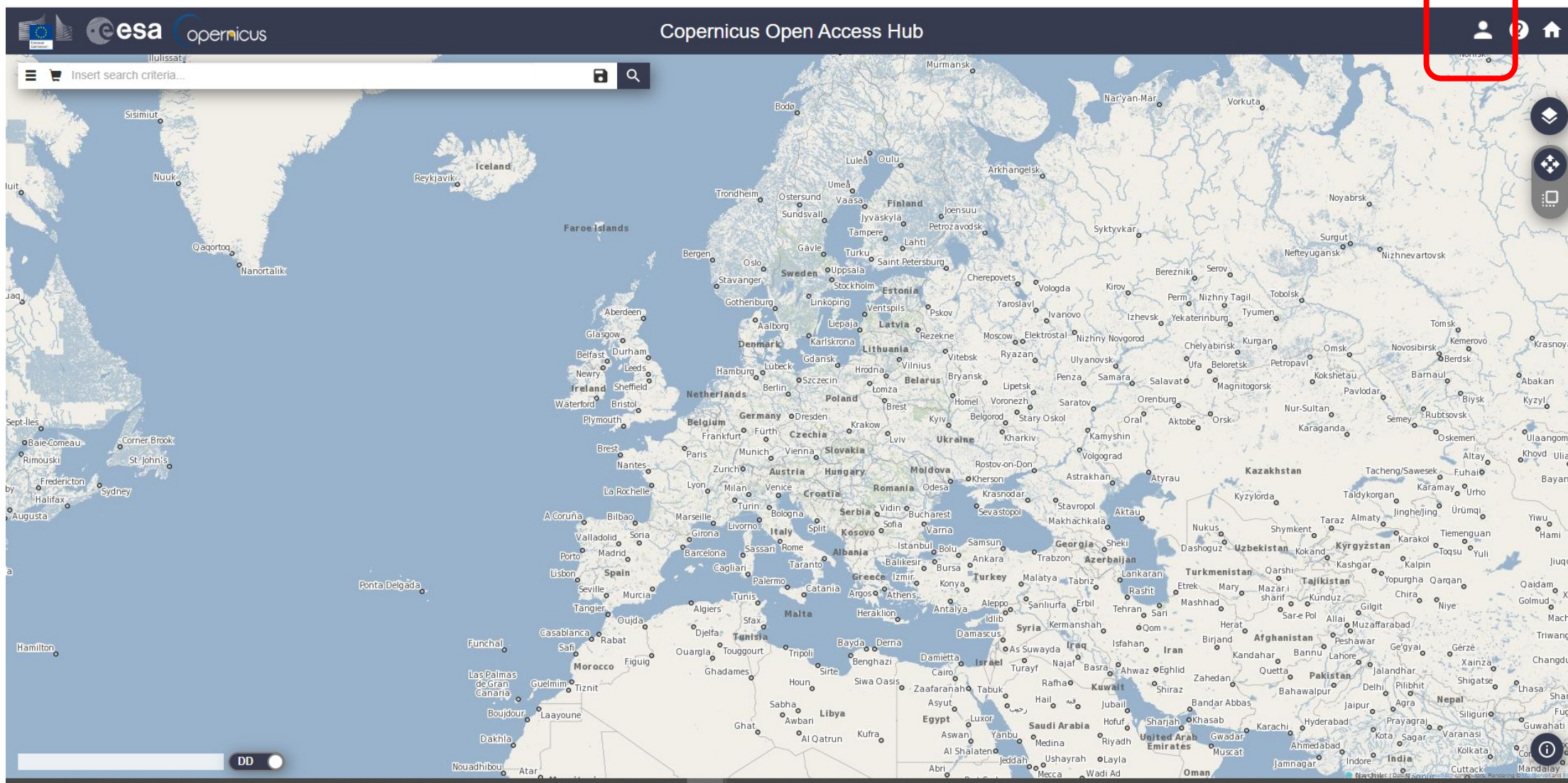
sentinel-3

Sea Topography, Surface Temps

Access: <https://scihub.copernicus.eu/dhus/#/home>

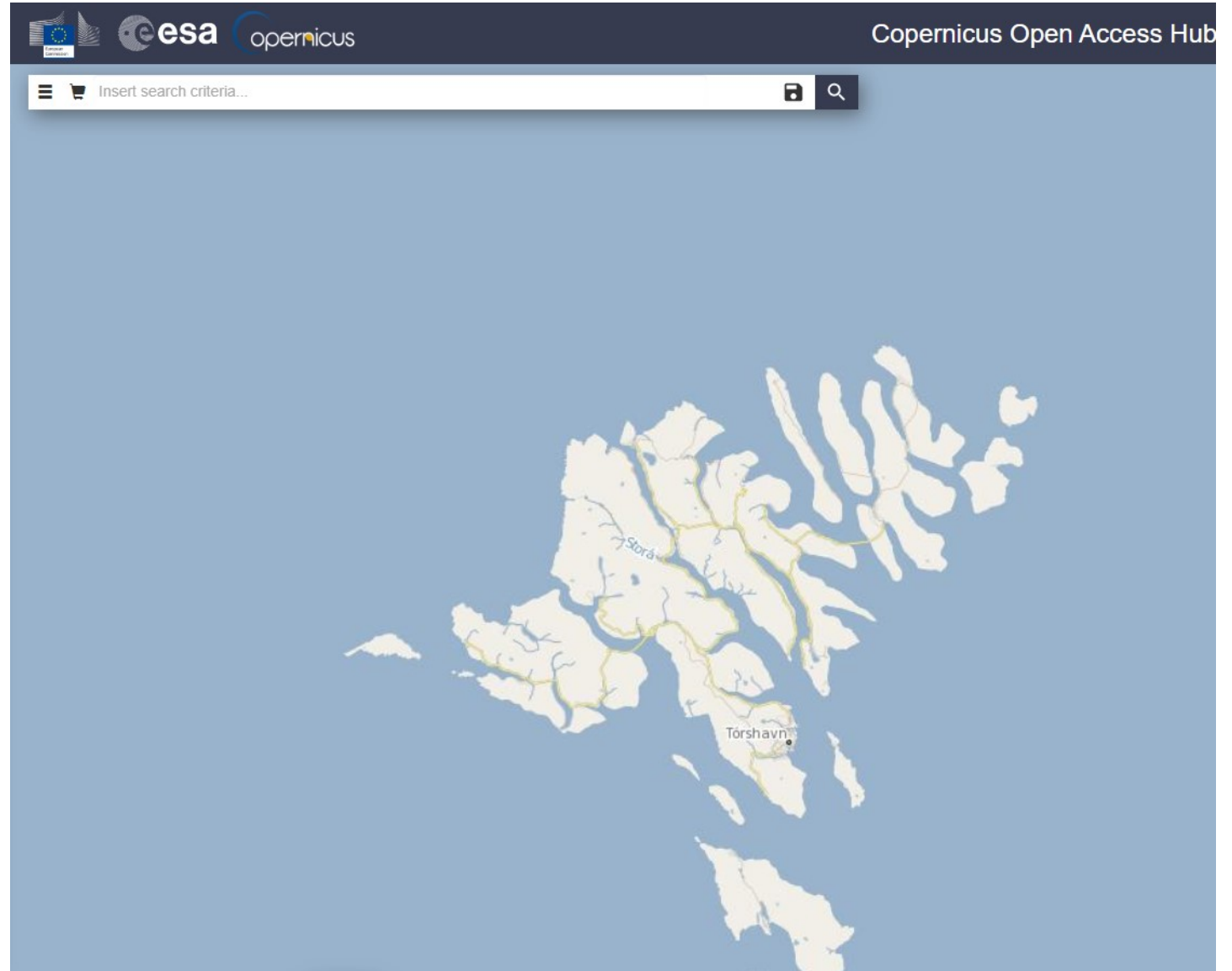
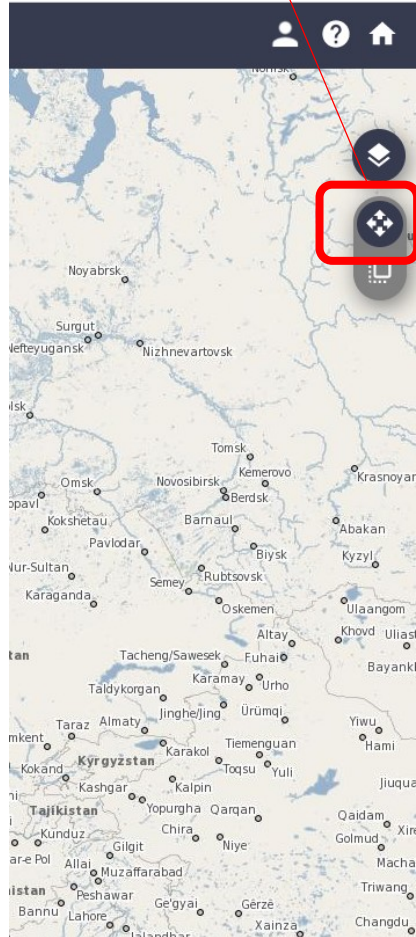


LOGIN / CREATE AN ACCOUNT



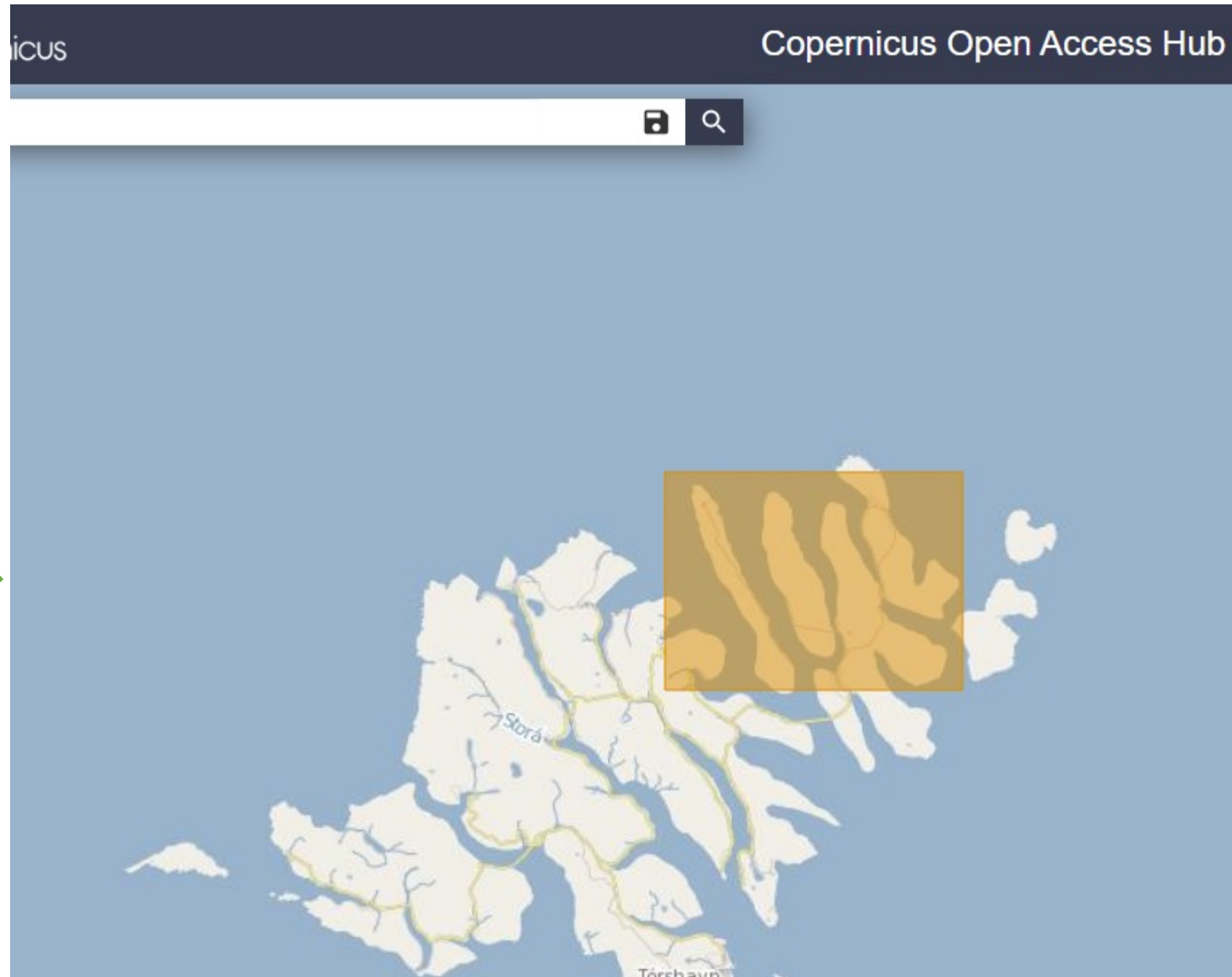
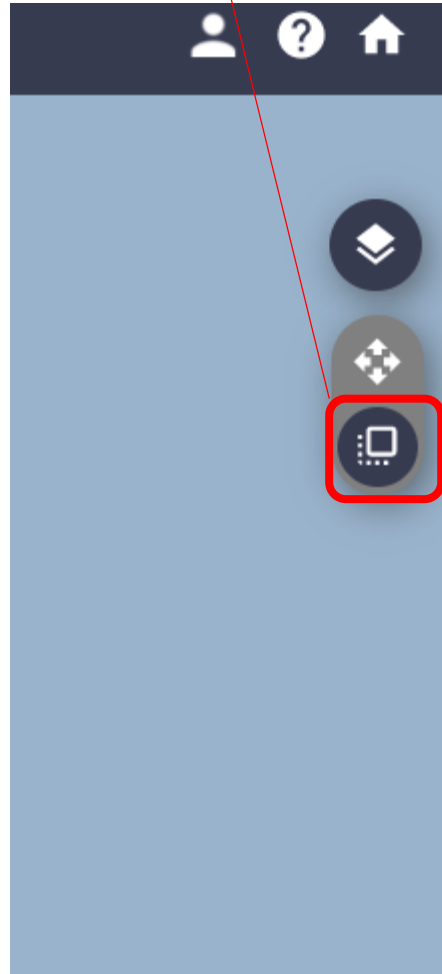
Select '**Navigation Mode.**'

Navigate to the area you are interested in (e.g North Faroe Islands)

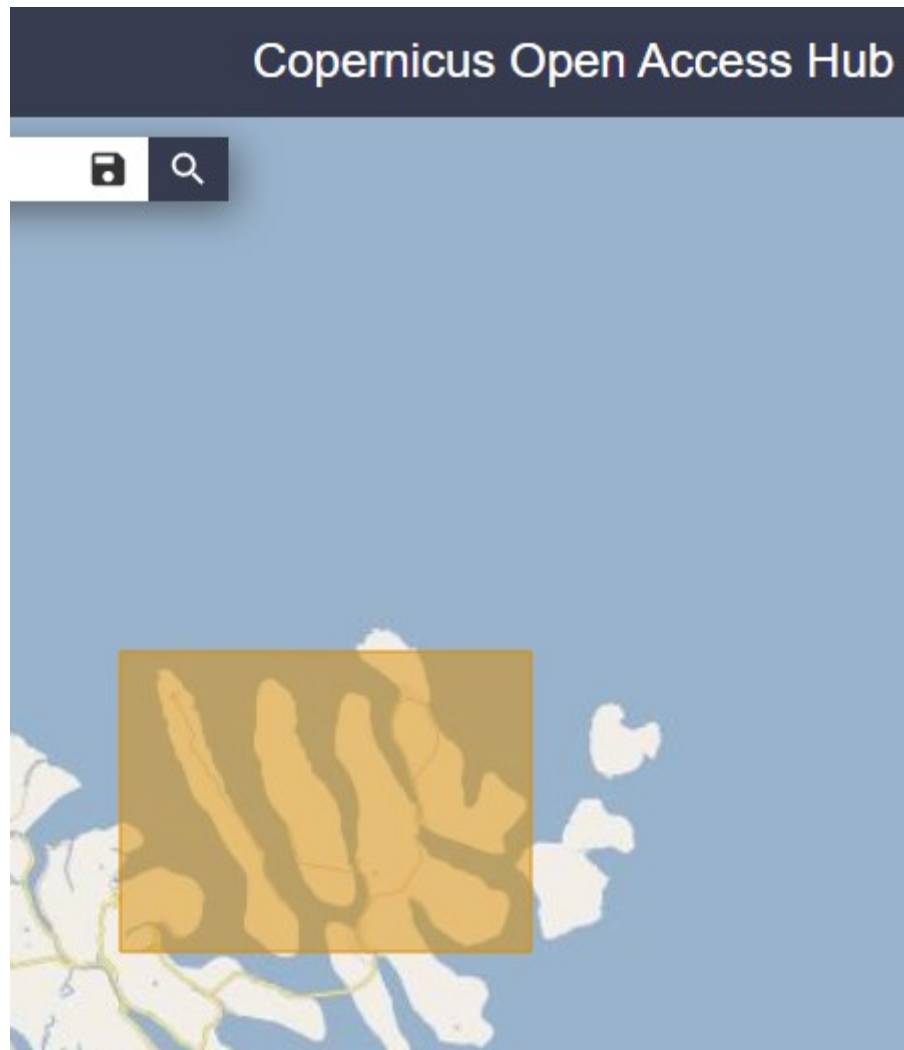


Select '**Area Mode.**'

You will use this to create an **AOI**
(**Area of Interest**) with the
mouse



While your AOI is still selected below....



Select the advanced search settings (next slide has details)

The image shows the "Advanced Search" panel on the Copernicus Open Access Hub website. The panel is titled "Advanced Search" and includes a "Clear" button. It contains several search criteria sections: "Sort By:" with a dropdown menu set to "Ingestion Date", "Order By:" with a dropdown menu set to "Descending", "Sensing period" with a date range input, "Ingestion period" with a date range input, "Mission: Sentinel-1" with a radio button, "Satellite Platform" with a dropdown menu, "Product Type" with a dropdown menu, "Polarisation" with a dropdown menu, "Sensor Mode" with a dropdown menu, "Relative Orbit Number (from 1 to 175)" with a text input, "Mission: Sentinel-2" with a radio button, "Satellite Platform" with a dropdown menu, "Product Type" with a dropdown menu, "Relative Orbit Number (from 1 to 143)" with a text input, "Cloud Cover % (e.g.[0 TO 9.4])" with a text input, "Mission: Sentinel-3" with a radio button, "Satellite Platform" with a dropdown menu, "Product Type" with a dropdown menu, "Timeliness" with a dropdown menu, and "Instrument" with a dropdown menu. A red box highlights the search bar at the top of the panel.

Start date

- It may be easier to consider narrower sensing periods individually e.g. May 2021, June 2021 vs. May – June 2021 in one search

Select
Mission: Sentinel 2

The screenshot shows the 'Advanced Search' interface of the Sentinel Hub. At the top, there is a search bar with the placeholder text 'Insert search criteria...'. Below this, the 'Advanced Search' section is visible, featuring a 'Clear' button and a 'Sort By' dropdown set to 'Ingestion Date' with a 'Descending' order. The 'Sensing period' is set to '2021/05/01' and the 'Ingestion period' is set to '2022/05/31'. Under the 'Mission' section, 'Sentinel-1' is unselected and 'Sentinel-2' is selected with a checkbox. The 'Satellite Platform' dropdown is empty, and the 'Relative Orbit Number' is set to 'from 1 to 175'. The 'Product Type' dropdown is set to 'S2MSI2A', and the 'Sensor Mode' dropdown is empty. The 'Cloud Cover %' dropdown is set to 'e.g.[0 TO 9.4]'. The 'Mission: Sentinel-3' option is unselected. Red lines connect the annotations to specific fields: from the 'Start date' box to the 'Sensing period' field, from the 'Select Mission: Sentinel 2' box to the 'Mission: Sentinel-2' checkbox, and from the 'Explore Cloud Cover %' box to the 'Cloud Cover %' dropdown.

Insert search criteria...

Advanced Search Clear

» Sort By: Ingestion Date

» Order By: Descending

» Sensing period 2021/05/01

» Ingestion period 2022/05/31

☐ Mission: Sentinel-1

Satellite Platform

Polarisation

Relative Orbit Number (from 1 to 175)

☒ Mission: Sentinel-2

Satellite Platform

Relative Orbit Number (from 1 to 143)

☐ Mission: Sentinel-3

Product Type

Sensor Mode

S2MSI2A

Cloud Cover % (e.g.[0 TO 9.4])

Select
Product Type:
S2MSI2A

This is product Level-2A

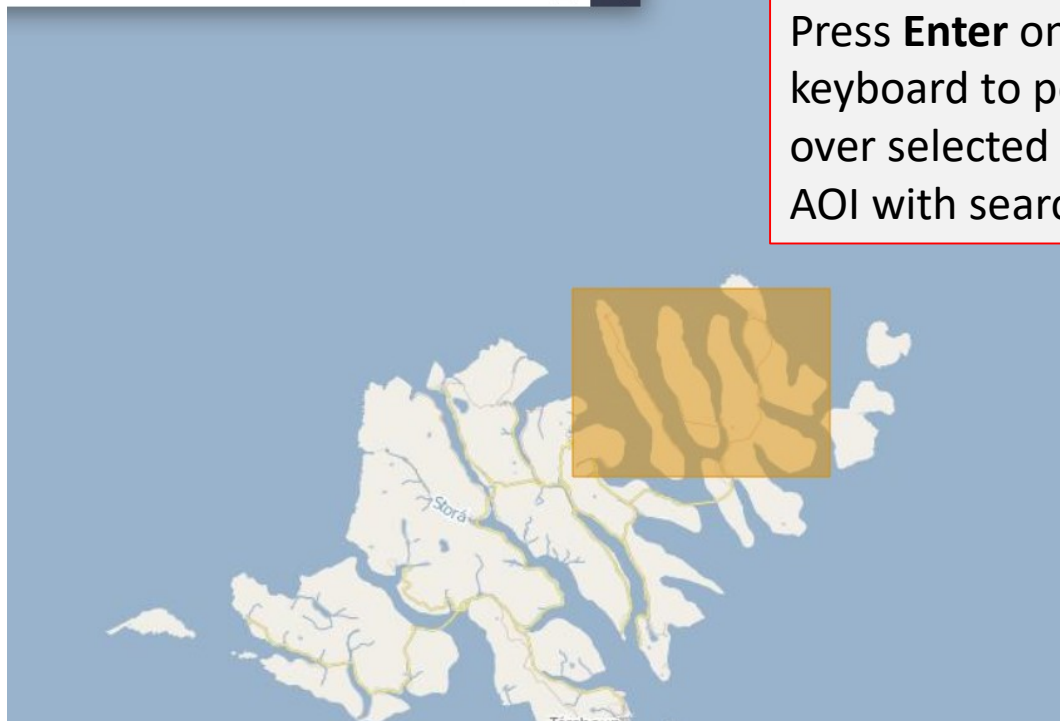
<https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/data-products>

Explore **Cloud Cover %** - Start with none, and explore results

Close the settings tab (your search params **will be stored**)



Press **Enter** on your keyboard to perform search over selected AOI with search params



Select **Navigation Mode**



The search looks for **any images matching your search params which intersect some part of your AOI** =>
You may not get full coverage from a single image

Insert search criteria...

Display 1 to 25 of 621 products.
Order By: Ingestion Date ↓

0 products selected

Request Done: (footprint:"Intersects(POLYGON((-6.951539979069297 62.22458219173302,-6.217568010804279 62.22458219173302,-6.217568010804279 62.41423448842568,-6.951539979069297 62.41423448842568,-6.951539979069297 62.22458219173302))))")


Thumbnail	Product ID	Download URL	Mission	Instrument	Sensing Date	Size	Checkbox
	S2A_MSIL2A_20220531T120411_N0400_R066_T29VPK_20220531T183212	https://scihub.copernicus.eu/dhus/odata/v1/Products('c6d31eb7-a012-4e27-aa5e-707f9e35a459')	Sentinel-2	MSI	2022-05-31T12:04:11.025Z	287.84 MB	<input type="checkbox"/>
	S2A_MSIL2A_20220531T120411_N0400_R066_T29VVK_20220531T183212	https://scihub.copernicus.eu/dhus/odata/v1/Products('dc398d74-88bb-462c-bea8-1d98120b3d93')	Sentinel-2	MSI	2022-05-31T12:04:11.025Z	560.26 MB	<input type="checkbox"/>
	S2A_MSIL2A_20220531T120411_N0400_R066_T30VUQ_20220531T183212	https://scihub.copernicus.eu/dhus/odata/v1/Products('ebd01a16-f376-49ad-80c1-c86ed8c0cf67')	Sentinel-2	MSI	2022-05-31T12:04:11.025Z	248.35 MB	<input type="checkbox"/>
	S2B_MSIL2A_20220529T121359_N0400_R109_T30VUQ_20220529T143047	https://scihub.copernicus.eu/dhus/odata/v1/Products('fa494367-6a0d-48c5-b215-6c0b5843e11a')	Sentinel-2	MSI	2022-05-29T12:13:59.024Z	77.01 MB	<input checked="" type="checkbox"/>
	S2B_MSIL2A_20220529T121359_N0400_R109_T29VVK_20220529T143047	https://scihub.copernicus.eu/dhus/odata/v1/Products('98565e3f-4faf-496e-bc88-253a65f08e31')	Sentinel-2	MSI	2022-05-29T12:13:59.024Z	527.94 MB	<input type="checkbox"/>
	S2B_MSIL2A_20220529T121359_N0400_R109_T29VPK_20220529T143047	https://scihub.copernicus.eu/dhus/odata/v1/Products('7666e74c-59ef-4ada-88a1-fa674c8422d6')	Sentinel-2	MSI	2022-05-29T12:13:59.024Z	107.90 MB	<input type="checkbox"/>


Products per page: 25 << < page: 1 of 25 > >>


Individual **Extents** of the search result images

Your **AOI**

Tick a box to highlight the **geographic extent** of the image

S2A MSI S2A_MSIL2A_20220531T120411_N0400_R066_T30VUQ_20220531T183212 

 Download URL: [https://scihub.copernicus.eu/dhus/odata/v1/Products\('ebd01a16-f376-49ad-80c1-c86ed8c0cf67'\)/](https://scihub.copernicus.eu/dhus/odata/v1/Products('ebd01a16-f376-49ad-80c1-c86ed8c0cf67')/)
Mission: Sentinel-2 Instrument: MSI Sensing Date: 2022-05-31T12:04:11.025Z Size: 248.35 MB



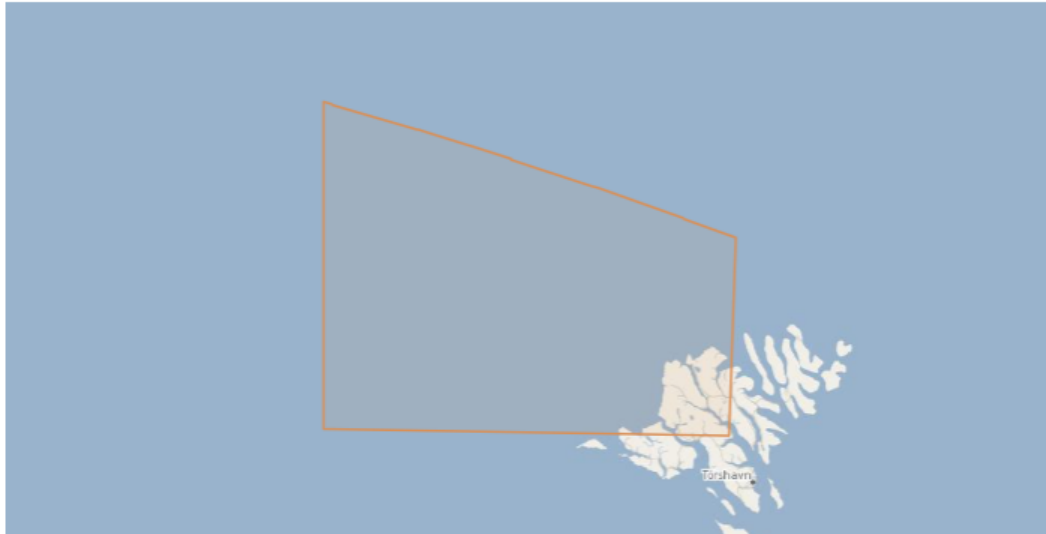
Click on **View Product Details** to see more info & view the image

*Note screenshot issues,
hence the clipart*

Product Details: LHS = Extent, RHS = RGB Image. Note the 'nodata' values in the TOP RHS of image.

S2A_MSIL2A_20220531T120411_N0400_R066_T29VNK_20220531T183212

Footprint



Attributes

Summary

Date: 2022-05-31T12:04:11.025Z

Filename: S2A_MSIL2A_20220531T120411_N0400_R066_T29VNK_20220531T183212.SAFE

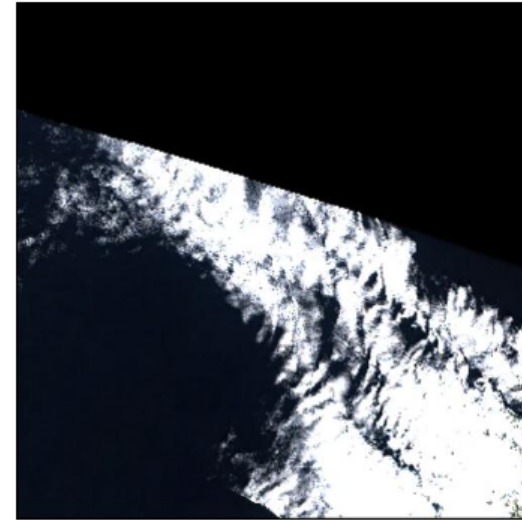
Identifier: S2A_MSIL2A_20220531T120411_N0400_R066_T29VNK_20220531T183212

Instrument: MSI

Satellite: Sentinel-2

Size: 560.26 MB

Quicklook



Inspector

Download Product



Scroll down: Metadata of the image. Note the Cloud Cover Percentage & Cloud Shadow Percentage

Product

Aot retrieval accuracy: 0.0

Cloud cover percentage: 41.891214

Cloud shadow percentage: 0.160339

Dark features percentage: 0.008901

Datastrip identifier: S2A_OPER_MSI_L2A_DS_ATOS_20220531T183212_S20220531T120405_N04.00

Degraded ancillary data percentage: 0.0

Degraded MSI data percentage: 0

Footprint: <gml:Polygon srsName="http://www.opengis.net/gml/srs/epsg.xml#4326"
xmlns:gml="http://www.opengis.net/gml"> <gml:outerBoundaryIs> <gml:LinearRing>
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62.91846637003746,-8.957306 62.85969816177054,-8.51355 62.85981722424034,-8.513458
62.859211884881645,-8.508942 62.859480101978825,-8.508728 62.859395750626575,-8.508118
62.8602039662916,-8.507507 62.85477403721782,-8.46994 62.82253962522436,-8.247681
62.818565136955456,-8.220398 62.79011478408242,-8.026062 62.78850224107481,-8.027313
62.72485106435075,-7.602356 62.724893681225474,-7.6023254 62.72487193527884,-7.602173
62.72503623068111,-7.602051 62.72432320058102,-7.59729 62.72524183399697,-7.596588
62.72118011412712,-7.5713806 62.6501205063376,-7.131134 62.648813945062045,-7.1321716
62.60324385009878,-6.8606873 62.127976558918824,-6.8949585 62.14398151095575,-9.000397
62.92580159727482,-9.000397</gml:coordinates> </gml:LinearRing> </gml:outerBoundaryIs> </gml:Polygon>