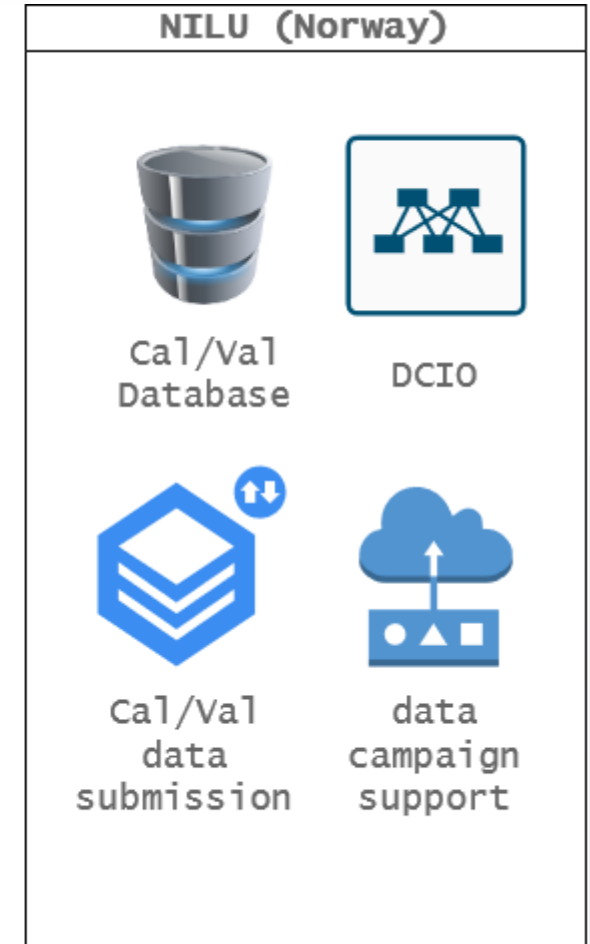
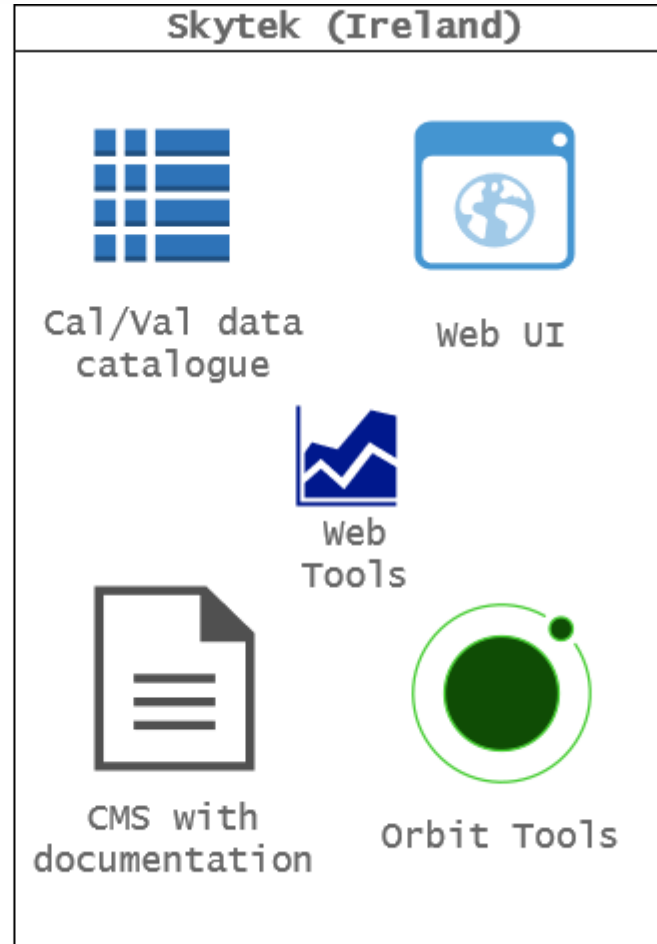
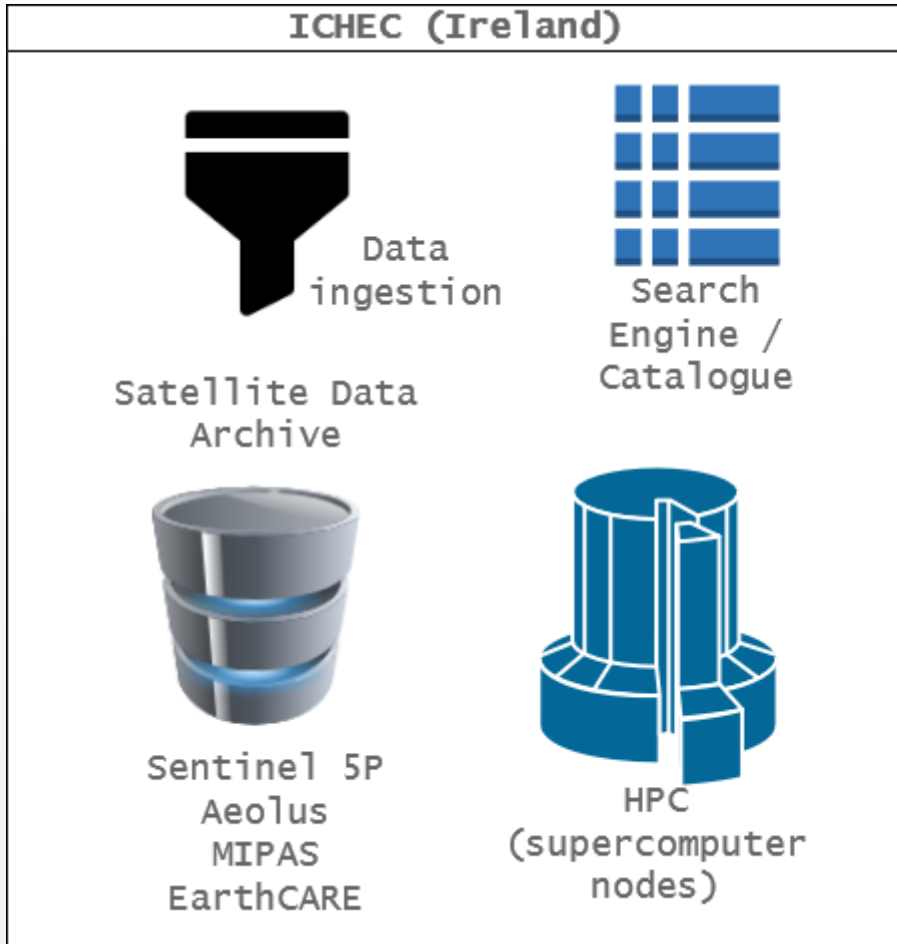




EVDC for EarthCARE



EVDC – Platform Overview



EVDC – EarthCARE Mission Support

- Database of correlative products
- Web tool for searching, organizing and downloading both satellite and correlative products
- Cloud processing:
 - Visual authoring of processing workflows
 - HPC backend
 - EarthCARE Tools integrations
- Collocations Database
- Orbit Prediction Tools



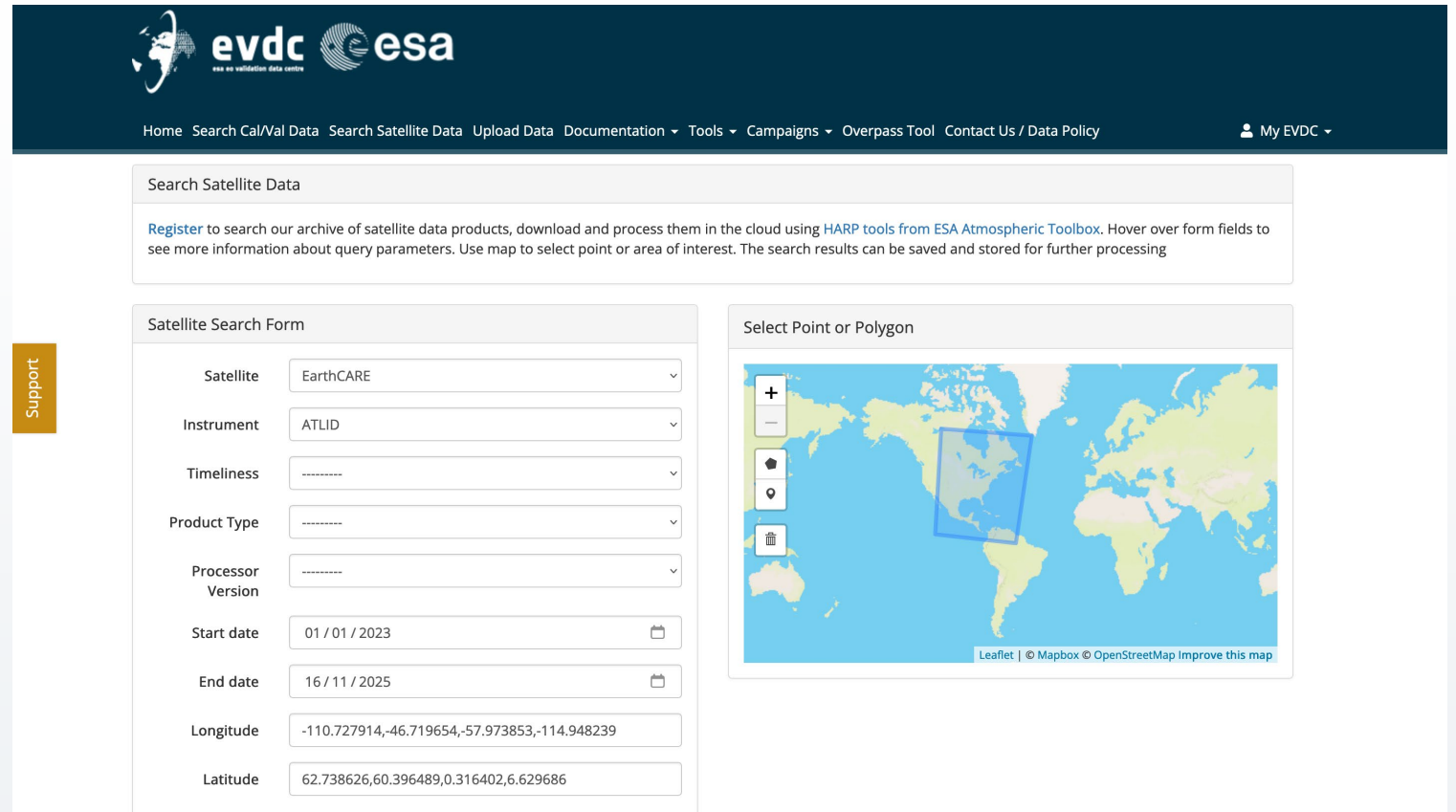
EVDC – Satellite data archive

Available atmospheric mission
data (approx 500TB)

- Sentinel 5P
- Aeolus
- MIPAS (Envisat)
- EarthCARE (foreseen for E2)
- Test EarthCARE products ingested and indexed

Access

- <https://evdc.esa.int>
- Registration required (NILU u/p is sufficient)



The screenshot displays the EVDC (ESA Validation Data Centre) website interface. At the top, there is a dark blue header with the EVDC and ESA logos. Below the header, a navigation menu includes links for Home, Search Cal/Val Data, Search Satellite Data, Upload Data, Documentation, Tools, Campaigns, Overpass Tool, Contact Us / Data Policy, and My EVDC. The main content area is titled "Search Satellite Data" and contains a registration notice: "Register to search our archive of satellite data products, download and process them in the cloud using HARP tools from ESA Atmospheric Toolbox. Hover over form fields to see more information about query parameters. Use map to select point or area of interest. The search results can be saved and stored for further processing". Below this is a "Satellite Search Form" with the following fields: Satellite (EarthCARE), Instrument (ATLID), Timeliness (-----), Product Type (-----), Processor Version (-----), Start date (01 / 01 / 2023), End date (16 / 11 / 2025), Longitude (-110.727914,-46.719654,-57.973853,-114.948239), and Latitude (62.738626,60.396489,0.316402,6.629686). To the right of the form is a "Select Point or Polygon" section featuring a world map with a blue rectangular selection box over North America. A vertical "Support" button is visible on the left side of the search form area.

EVDC – Satellite data search engine/ catalogue



- Product ingestion and indexing services
- Fast, enterprise grade search engine (Solr)
- Spatial search functionalities

The screenshot shows the EVDC (ESA Validation Data Centre) search engine interface. At the top, there are logos for EVDC and ESA, along with navigation links: Home, Search Cal/Val Data, Search Satellite Data, Upload Data, Documentation, Tools, Campaigns, Overpass Tool, Contact Us / Data Policy, and a user profile link 'My EVDC'. Below the navigation is a search results summary: 'Page 1 out of 1 (13 Results)' and a button 'Save Search and Process Results'. The main content is a table of search results with columns: Thumbnail, File Name, Size (MB), Created, Satellite Name, and Instrument. A vertical 'Support' label is on the left side of the table.

<input type="checkbox"/>	Thumbnail	File Name	Size (MB)	Created	Satellite Name	Instrument
<input type="checkbox"/>		ECA_EXAA_ATL_ICE_2A_20250410T214000Z_20230131T130506Z_40874D.zip	3	2025-04-10T21:51:46Z	EarthCARE	ATLID
<input type="checkbox"/>		ECA_EXAA_ATL_EBD_2A_20250410T214000Z_20230131T130506Z_40874D.zip	55	2025-04-10T21:51:46Z	EarthCARE	ATLID
<input type="checkbox"/>		ECA_EXAA_ATL_FM_2A_20250410T214000Z_20230131T130409Z_40874D.zip	1	2025-04-10T21:51:46Z	EarthCARE	ATLID

EVDC – Satellite data search engine/ catalogue



Home Search Cal/Val Data Search Satellite Data Upload Data Documentation Tools Campaigns Overpass Tool Contact Us / Data Policy

My EVDC

Page 1 out of 1 (13 Results)

Save Search and Process Results

<input type="checkbox"/>	Thumbnail	File Name	Size (MB)	Created	Satellite Name	Instrument
<input checked="" type="checkbox"/>		ECA_EXAA_ATL_EBD_2A_20250410T214000Z_20230131T130506Z_40874D.zip	3	2025-04-10T21:51:46Z	EarthCARE	ATLID
<input checked="" type="checkbox"/>		ECA_EXAA_ATL_EBD_2A_20250410T214000Z_20230131T130506Z_40874D.zip	55	2025-04-10T21:51:46Z	EarthCARE	ATLID
<input type="checkbox"/>		ECA_EXAA_ATL_FM_2A_20250410T214000Z_20230131T130409Z_40874D.zip	1	2025-04-10T21:51:46Z	EarthCARE	ATLID

Support



EVDC – Satellite data search engine/ catalogue




Home Search Cal/Val Data Search Satellite Data Upload Data Documentation Tools Campaigns Overpass Tool Contact Us / Data Policy

My EVDC

Page 1 out of 1 (13 Results)

Save Search and Process Results












<input type="checkbox"/>	Thumbnail	File Name	Size (MB)	Created	Satellite Name	Instrument
<input checked="" type="checkbox"/>		ECA_EXAA_ATL_..._20250410T214000Z_20230131T130506Z_40874D.zip	3	2025-04-10T21:51:46Z	EarthCARE	ATLID
<input checked="" type="checkbox"/>		ECA_EXAA_ATL_EBD_2A_20250410T214000Z_20230131T130506Z_40874D.zip	55	2025-04-10T21:51:46Z	EarthCARE	ATLID
<input type="checkbox"/>		ECA_EXAA_ATL_FM_2A_20250410T214000Z_20230131T130409Z_40874D.zip	1	2025-04-10T21:51:46Z	EarthCARE	ATLID

Support

EVDC – Satellite data search UI

My Saved Searches

Page 1 of 5. [next](#)










Label	Search Date	Satellite	Instrument	Timeliness	Product Type	From	To	Location		
test 	June 27, 2023, 12:26 p.m.	Sentinel-5p	TROPOMI	Any	S5P_NRTI_L2__CO___	Jan. 1, 2023, midnight	June 27, 2023, midnight	POLYGON((21.583900 -52.676793, 12.176826 -38.609044, -3.197549 -45.642918, 1.019486 -70.261480))		
earthcare_sample 	June 14, 2023, 9:42 p.m.	EarthCARE	Any	Any	Any	Jan. 1, 2023, midnight	June 14, 2026, midnight	POLYGON((62.738631 -81.472634, 62.087434 -54.040522, 37.968459 -44.896485, 34.568104 -66.701497))		
new res 	May 23, 2023, 7:20 a.m.	Sentinel-5p	TROPOMI	Any	Any	Jan. 1, 2023, midnight	May 23, 2023, midnight	Any		

EVDC – Satellite data search UI

My Saved Searches

Click to add label

Page 1 of 5. [next](#)

Label	Search Date	Satellite	Instrument	Timeliness	Product Type	From	To	Location		
test	 June 27, 2023, 12:26 p.m.	Sentinel-5p	TROPOMI	Any	S5P_NRTI_L2__CO___	Jan. 1, 2023, midnight	June 27, 2023, midnight	POLYGON((21.583900 -52.676793, 12.176826 -38.609044, -3.197549 -45.642918, 1.019486 -70.261480))		
earthcare_sample	 June 14, 2023, 9:42 p.m.	EarthCARE	Any	Any	Any	Jan. 1, 2023, midnight	June 14, 2026, midnight	POLYGON((62.738631 -81.472634, 62.087434 -54.040522, 37.968459 -44.896485, 34.568104 -66.701497))		
new res	 May 23, 2023, 7:20 a.m.	Sentinel-5p	TROPOMI	Any	Any	Jan. 1, 2023, midnight	May 23, 2023, midnight	Any		

EVDC – Correlative data search UI

Advanced search tools for correlative products.

Support

New Files

0 new files added since your last visit on: 2023-11-16 08:27:29

Search History

Search Date

Data

Location

Data Source Type


Data Discipline Field

Data Discipline Class

Data Originator

Data Supplier

Stations



Variable

Variable Name

Variable Mode

Variable Descriptor

Other

Frameworks

Principal Investigator

AO ID

DOI: <https://doi.org/10.48596/pgn.rsus1p1-8.Bremen.P21s1>

Time and Location

Date Min: 18 / 08 / 2023

Date Max: 16 / 11 / 2023

Spatial Filter: Off, Point, Bounding Box

Point/Min Longitude (Deg)

Point/Min Latitude (Deg)

Point/Min Altitude (m)

Max Longitude (Deg)

Max Latitude (Deg)

Max Altitude (m)

Submit

Skytek • NILU • ESA Contact: nadirteam@nilu.no

EVDC – Correlative data search UI

Frameworks	<input type="text" value="-----"/>
Principal Investigator	<input type="text" value="-----"/>
AO ID	<input type="text" value="-----"/>
DOI	<input type="text" value="https://doi.org/10.48596/pgn.rsus1p1-8.Bremen.P21s1"/>

EVDC – Correlative data search UI

Search Results (74)

74 Total

Select All On Page

Clear Selection

Download Selected Files

Save Selected Files

<input type="checkbox"/>	File name link	File Size	Submission date	PI	Campaign
<input type="checkbox"/>	👁️ groundbased_uwis.doas.directsun.so2_nasa.gsfc021_rd.rsus1.1.8_bremen_20231114t085823z_20231114t131123z_001.h5	43 kB	2023-11-15 00:01:04.000	Andre Seyler	AVDC, EVDC, PGN
<input type="checkbox"/>	👁️ groundbased_uwis.doas.directsun.so2_nasa.gsfc021_rd.rsus1.1.8_bremen_20231113t085810z_20231113t100102z_001.h5	43 kB	2023-11-13 23:57:35.000	Andre Seyler	AVDC, EVDC, PGN
<input type="checkbox"/>	👁️ groundbased_uwis.doas.directsun.so2_nasa.gsfc021_rd.rsus1.1.8_bremen_20231112t100753z_20231112t135400z_001.h5	43 kB	2023-11-12 23:53:40.000	Andre Seyler	AVDC, EVDC, PGN
<input type="checkbox"/>	👁️ groundbased_uwis.doas.directsun.so2_nasa.gsfc021_rd.rsus1.1.8_bremen_20231111t120921z_20231111t121012z_001.h5	43 kB	2023-11-11 23:24:53.000	Andre Seyler	AVDC, EVDC, PGN
<input type="checkbox"/>	👁️ groundbased_uwis.doas.directsun.so2_nasa.gsfc021_rd.rsus1.1.8_bremen_20231110t101808z_20231110t133547z_001.h5	43 kB	2023-11-10	Andre	AVDC, EVDC

EVDC – Correlative data search UI

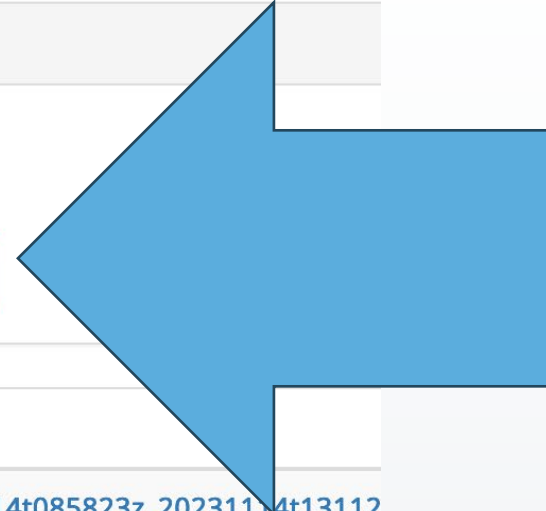
Search Results (74)

Q Search

74 Total

Select All On Page Clear Selection Download Selected Files Save Selected Files

<input type="checkbox"/>	File name link
<input checked="" type="checkbox"/>	groundbased_uvis.doas.directsun.so2_nasa.gsfc021_rd.rsus1.1.8_bremen_20231114t085823z_20231114t13112
<input checked="" type="checkbox"/>	groundbased_uvis.doas.directsun.so2_nasa.gsfc021_rd.rsus1.1.8_bremen_20231113t085810z_20231113t10010
<input checked="" type="checkbox"/>	groundbased_uvis.doas.directsun.so2_nasa.gsfc021_rd.rsus1.1.8_bremen_20231112t100753z_20231112t13540



EVDC – Correlative data search UI

Label and organize data

My Saved Cal/Val Searches



Label	Variable Name	Location	Data Source Type	From	To			
search-1506 	Any	<input type="checkbox"/>	Any	Aug. 18, 2023, midnight	Nov. 16, 2023, midnight			
search-1504 	Any	EVDC	<input type="checkbox"/>	Any	Nov. 1, 2023, midnight	Nov. 14, 2023, midnight		
	Any	EVDC	<input type="checkbox"/>	Any	May 12, 2023, midnight	June 10, 2023, midnight		
search-1503 	Any	EVDC	<input type="checkbox"/>	Any	Oct. 9, 2023, midnight	Nov. 7, 2023, midnight		
search-1502 	N2O.COLUMN	Any	<input type="checkbox"/>	Any	March 12, 2002, midnight	June 10, 2023, midnight		

EVDC – Processing Workflows

My Workflows

Create +

Workflow ID	Created	Name	Comments		
#21	Nov. 15, 2023, 4:58 p.m.	MSI tool another test	sdfsdf	✖	📄
#20	Nov. 14, 2023, 1:48 p.m.	MSI tool test	test	✖	📄
#19	Nov. 14, 2023, 11:31 a.m.	CLM_GEM_Data (Clone)		✖	📄
#18	Nov. 14, 2023, 10:21 a.m.	CIS EarhCARE Plugin (Clone)		✖	📄
#6	June 28, 2023, 1:03 a.m.	public CLM_GEM_Data		✖	📄
#4	June 27, 2023, 10:51 p.m.	public CIS EarhCARE Plugin		✖	📄
#13	Nov. 14, 2023, 8:50 a.m.	MSI workflow	testing	✖	📄
#12	Nov. 14, 2023, 8:34 a.m.	another test	another msi test	✖	📄
#5	June 28, 2023, 12:04 a.m.	CIS Lidar Use Case		✖	📄
#11	Nov. 8, 2023, 9:06 a.m.	MSI_test	my test of MSI	✖	📄

Support

- ✓ Resuse
- ✓ Clone
- ✓ Share
- ✓ Publish

Encourage collaboration and standardization of processing workflows and data visualisations

EVDC – Processing Workflows

The screenshot displays the EVDC (ESA Validation Data Centre) web interface. At the top, there is a dark blue header with the EVDC and ESA logos. Below the header is a navigation menu with links: Home, Search Cal/Val Data, Search Satellite Data, Upload Data, Documentation, Tools, Campaigns, Overpass Tool, and Contact Us / Data Policy. A user profile icon labeled 'My EVDC' is in the top right corner.

The main content area is titled 'Workflow Elements and Tools' and contains four colored buttons: 'Add Input Data' (yellow), 'Add Workflow Step' (blue), 'Add Value' (green), and 'Add Output' (pink). Below each button is a corresponding input field: 'Select Data' (dropdown), 'Select Tool' (dropdown), 'define value...' (text), and 'define output name...' (text).

Below this section is a 'Support' sidebar on the left and a main workflow area titled 'Workflow: my new workflow' which is currently empty.

EVDC – Processing Workflows



Workflow Elements and Tools

Add Input Data +

Add Workflow Step +

Select Tool

W

- ✓ Select Data
 - ec-sample (sat)
 - my s5p (sat)
 - storm110.hdf (file)
 - test_file_wrong_ext.txt (file)
 - ice_cloud_all_channels(1).json (file)
 - evdc_file_1672899.tar.gz (file)
 - search-1506 (corr)
 - search-1504 (corr)
 - null (corr)
 - search-1503 (corr)
 - search-1502 (corr)

Support

Use

1. Saved Satellite Product searches
2. Saved correlative searches
3. Manually uploaded config files

as workflow inputs

EVDC – Processing Workflows

Workflow Elements and Tools

Add Input Data +

ice_cloud_all_channels(1).json (file) v

Add Workflow Step +

Add Value +

define value...

Workflow: my new workflow

ice_cloud_all_channels(1).json

Support

- ✓ Select Tool
- cis info
- cis col
- cis plot
- cis aggregate
- cis collapse
- cis subset
- msi_tool**
- lidar_module.py
- atlid_sim_plot.py
- harpconvert
- harpdump
- harpmerge
- harpcollocate
- python
- cis_var_select

Add Workflow Steps

Command line tools EarthCARE Tools integrated

- MSI Tool
- Lidar Tool (CLS)
- Radar Tool
- CIS with EarthCARE product readers

EVDC – Processing Workflows

Define Outputs

Workflow Elements and Tools

Add Input Data +

Add Workflow Step +

Add Value +

Add Output +

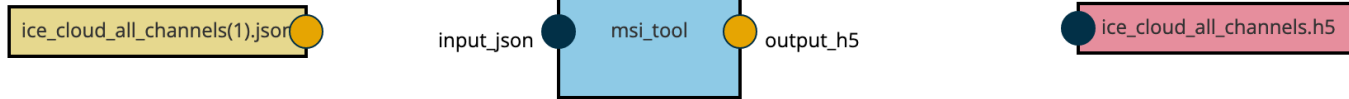
ice_cloud_all_channels(1).json (file) v

msi_tool v

define value...

ice_cloud_all_channels.h5

Workflow: my new workflow



EVDC – Processing Workflows

Workflow Elements and Tools

Add Input Data +

Add Workflow Step +

Add Value +

Add Output +

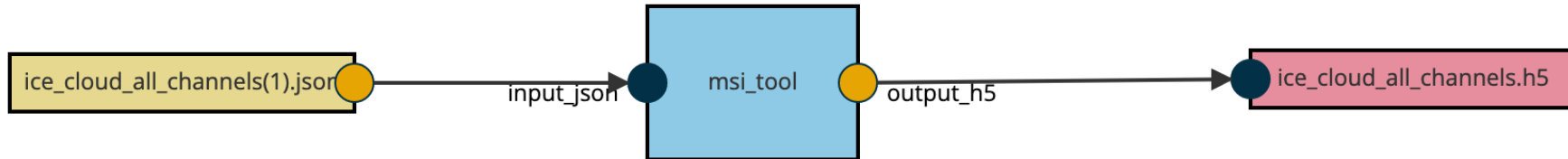
ice_cloud_all_channels(1).json (file) ▾

msi_tool ▾

define value...

ice_cloud_all_channels.h5

Workflow: my new workflow



EVDC – Processing Workflows

Workflow: my new workflow

```
graph LR; A[ice_cloud_all_channels(1).json] -- input_json --> B[msi_tool]; B -- output_h5 --> C[ice_cloud_all_channels.h5]
```

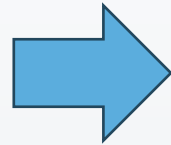
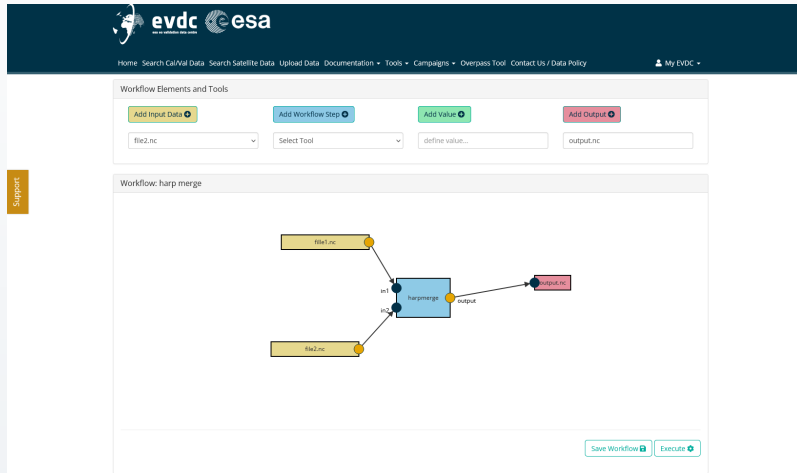
ice_cloud_all_channels(1).json input_json msi_tool output_h5 ice_cloud_all_channels.h5

Save and Execute

Save Workflow Execute

EVDC Processing System - Backend Infrastructure

Processing infrastructure



```
#!/usr/bin/env cwl-runner

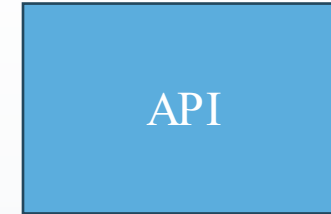
cwlVersion: v1.2
# This CommandLineTool executes the linux "harpmerge" command-line tool.

class: CommandLineTool
baseCommand: harpmerge

inputs:
  in1:
    type: File
    inputBinding:
      position: 1
  in2:
    type: File
    inputBinding:
      position: 2
  out:
    type: string
    inputBinding:
      position: 3
outputs:
  results:
    outputBinding:
      glob: '*.nc'
    outputEval: ${self.path.replace(/.nc$/, '/output.nc')}
    type: File
hints:
  DockerRequirement:
    dockerPull: evdc2harp
  requirements:
  EnvVarRequirement:
  envDef:
    PATH: usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
  ResourceRequirement: {}
  InlineJavascriptRequirement: {}

stdout: output/files/output.txt
```

COMMON WORKFLOW LANGUAGE

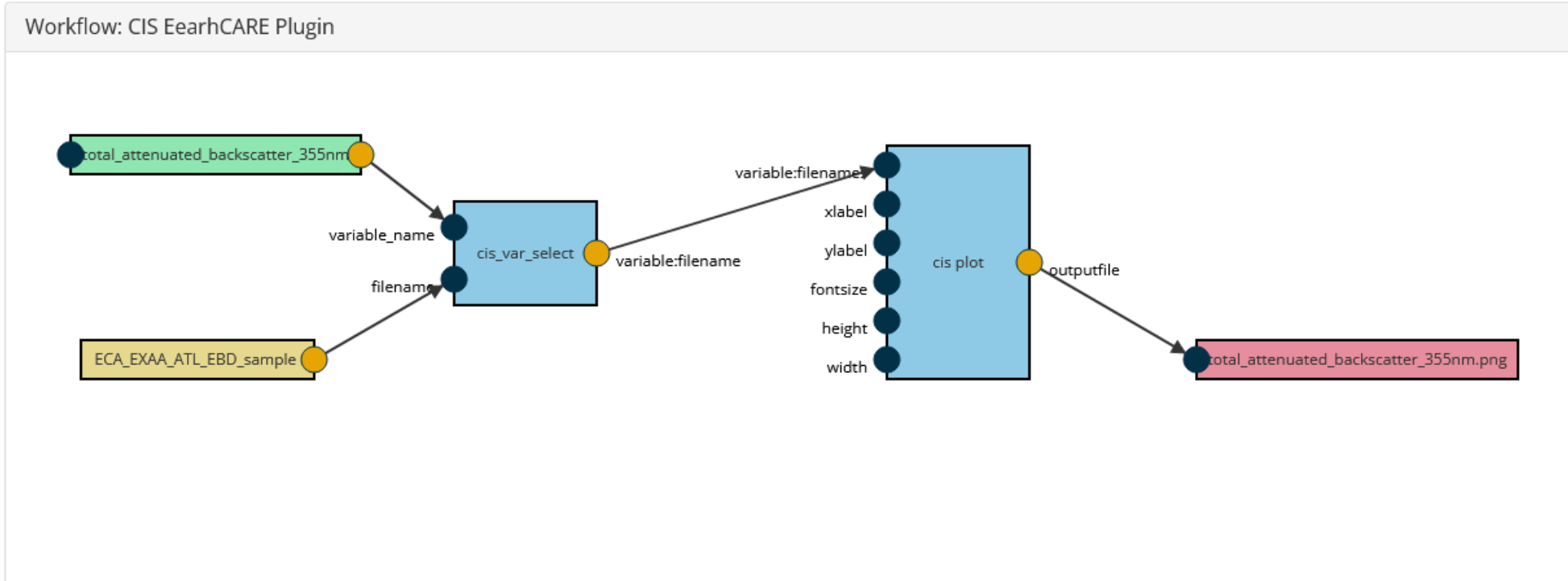


CIS Tool. EarthCARE plugin (reader)

Workflow Elements and Tools

Add Input Data + Add Workflow Step + Add Value + Add Output +

Select Data cis_var_select total_attenuated_backscatter_355nm _attenuated_backscatter_355nm.png



CIS Tool. EarthCARE plugin (reader)


Home Search Cal/Val Data Search Satellite Data Upload Data Documentation Tools Campaigns Overpass Tool Contact Us / Data Policy My EVDC

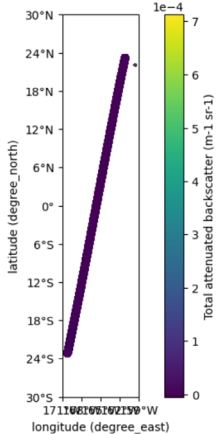
EXECUTION: Task ID c7b68de8-93af-406f-a9be-25f3ac021570 of workflow CIS EarthCARE Plugin (Clone)

```

INFO[0m /usr/bin/cwlttool 3.1.20230209161050
INFO[0m Resolved '_cwl_script_zbbagkbfflfadaiaq' to 'file:///tmp/tmp_f4qk5so/_cwl_script_zbbagkbfflfadaiaq'
INFO[0m [job_cwl_script_zbbagkbfflfadaiaq] /tmp/hqk7_ort$ printf 'message' > /tmp/hqk7_ort/out_file 2> /tmp/hqk7_ort/out_file
INFO[0m [job_cwl_script_zbbagkbfflfadaiaq] completed SUCCESS

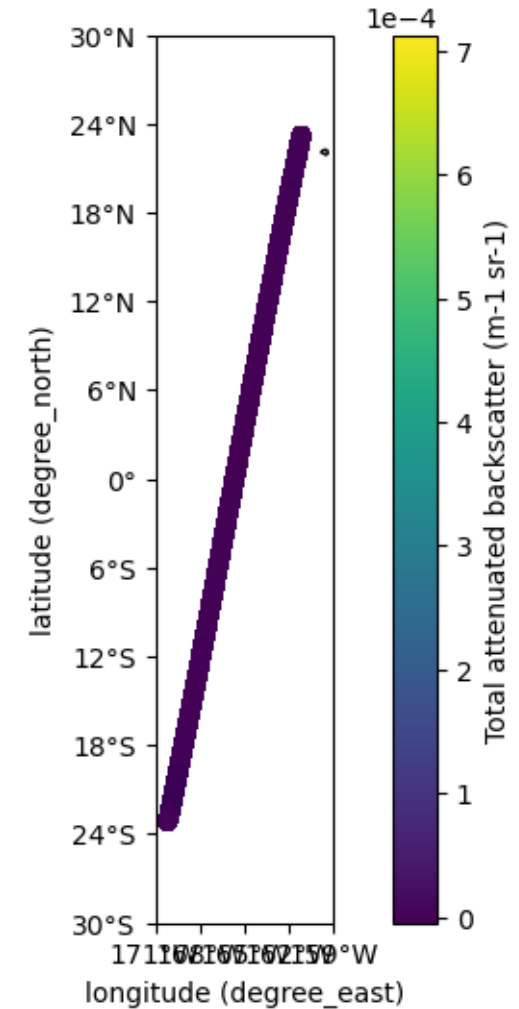
{
  "output": {
    "location": "file:///tmp/tmp_f4qk5so/out_file",
    "basename": "out_file",
    "class": "File",
    "checksum": "sha1sa0af50e5fd79dbb69fa8abf66932e680aa543fdc",
    "size": 24,
    "path": "/tmp/tmp_f4qk5so/out_file"
  }
}
INFO[0m Final process status is SUCCESS
            
```

Outputs:



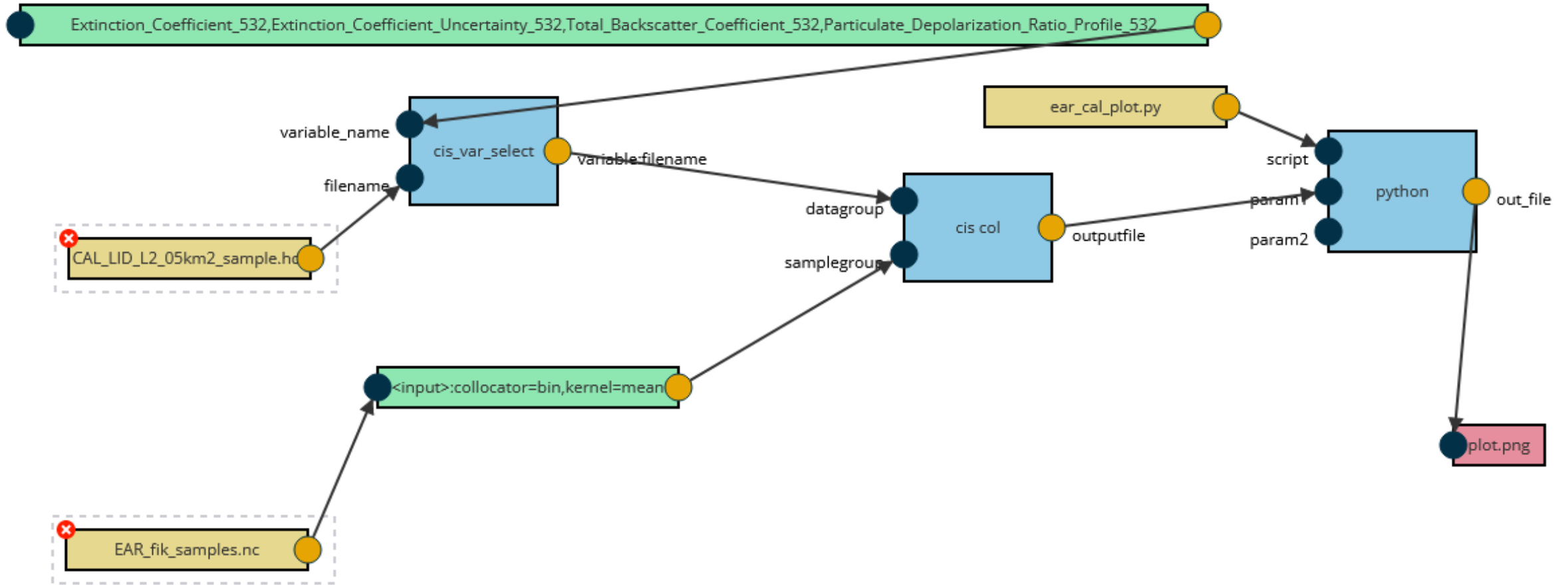
jobs/files/c7b68de8-93af-406f-a9be-25f3ac021570/total_attenuated_backscatter_355nm.png

Skytek · NILU · ESA nadirteam@nilu.no
Contact.

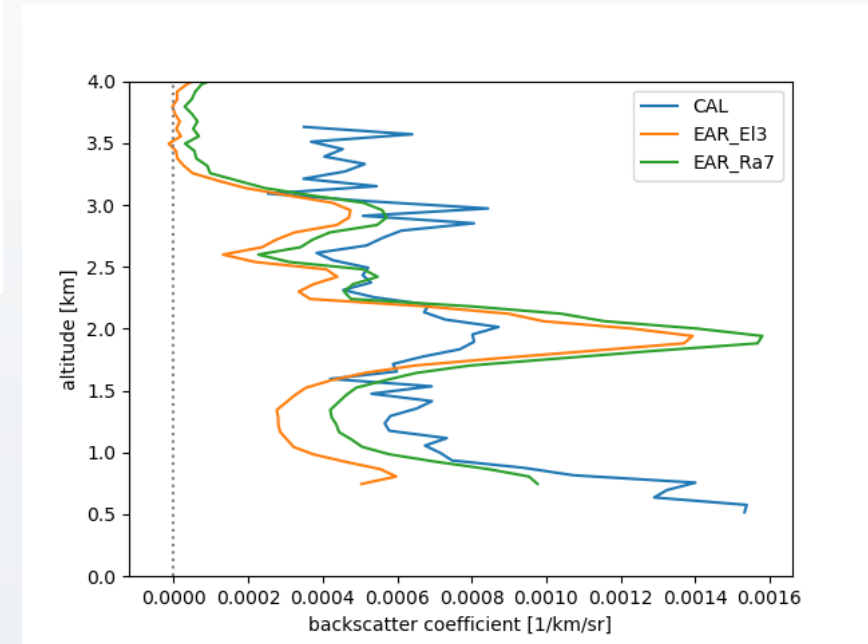
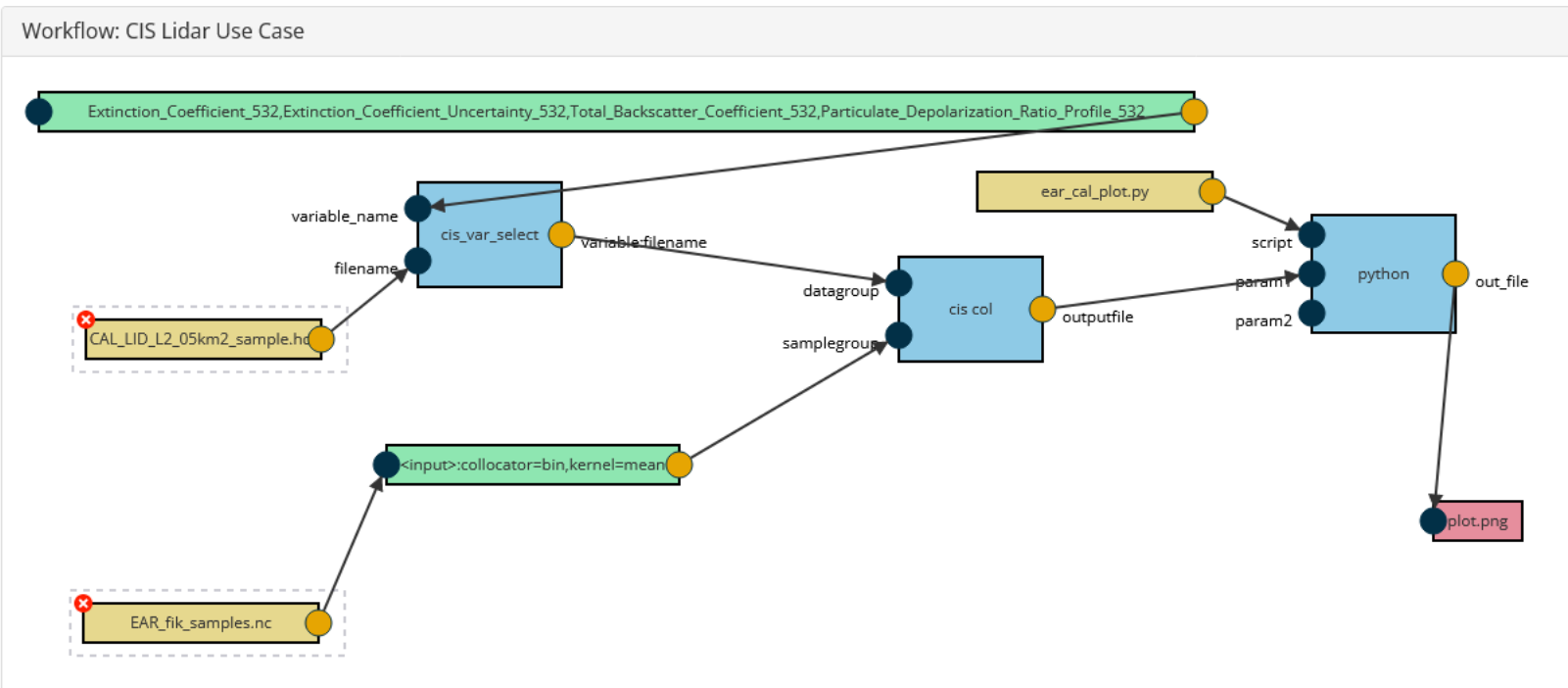


CIS Tool. More practical use case

Workflow: CIS Lidar Use Case

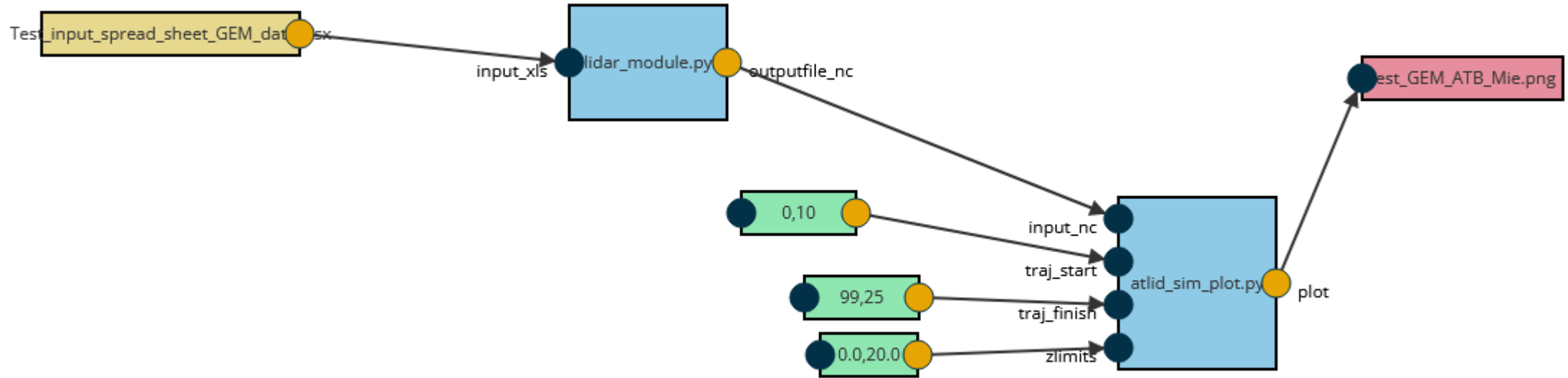


CIS Tool. More practical use case

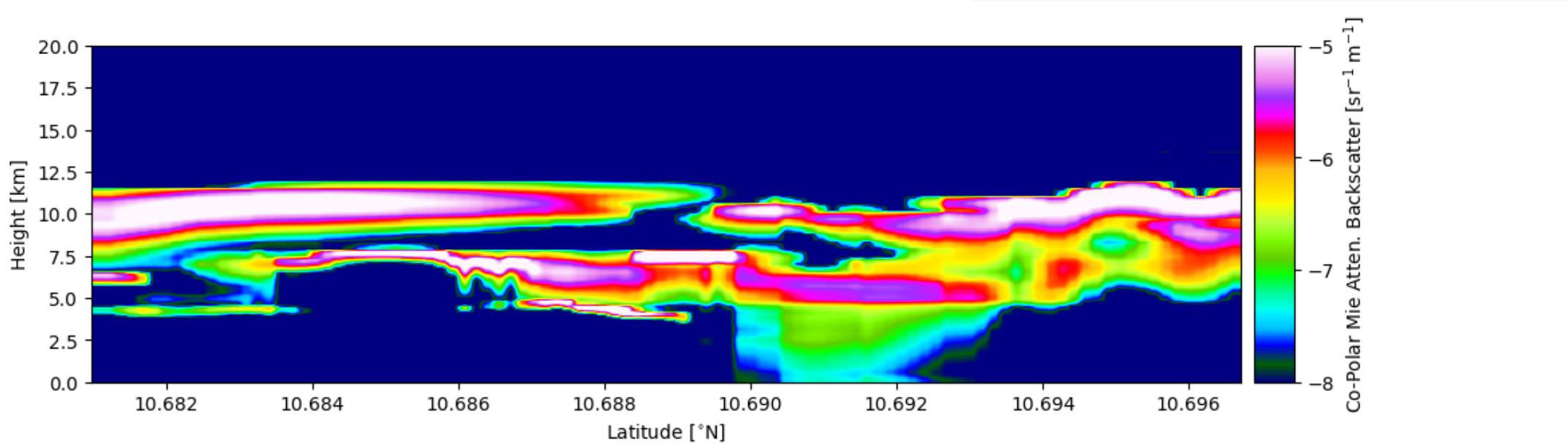
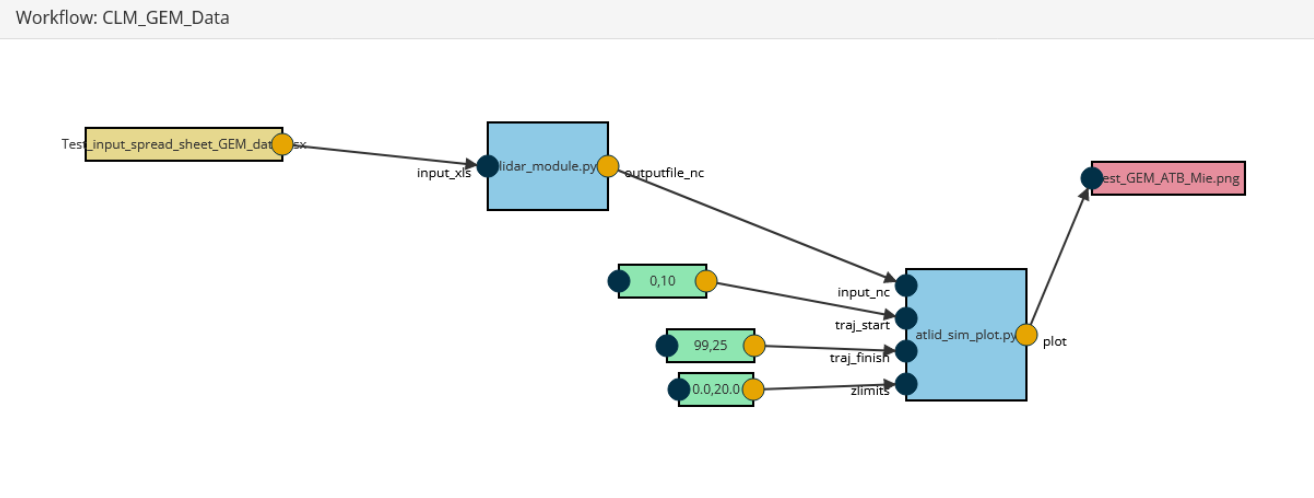


CLM. Lidar Tool Example

Workflow: CLM_GEM_Data



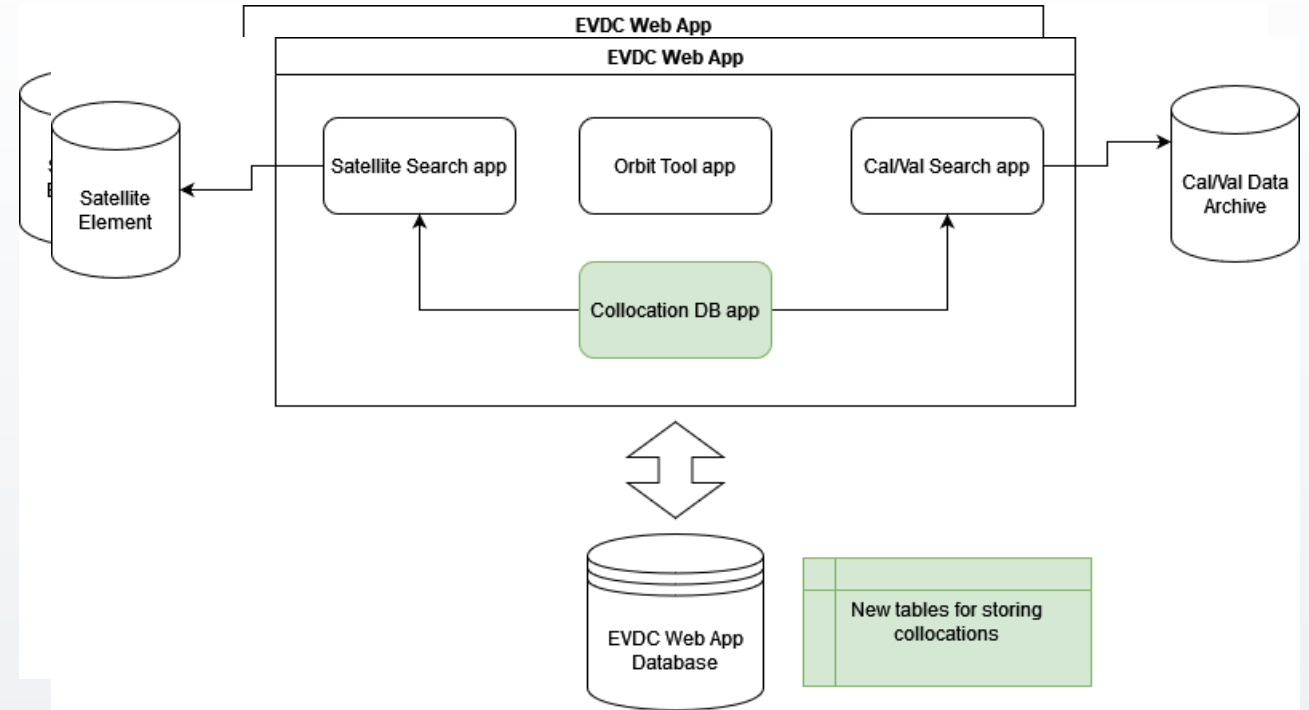
CLM. Lidar Tool Example



EVDC Collocation Database

The Goal:

- Automate the collection of broad collocations between satellite and correlative products
- Provide users with tools to interact with the archive of pre-located data
- Allow automated data deliveries based on custom (narrower) collocation criteria



EVDC Collocation Database

Configuration. Variable mapping

- Manual config for referencing satellite product variables to correlative variables
- Common naming (preferred standard?)
- Possible to configure more detailed mapping details (units, scaling, conversion formulas)

COLLOCATIONS	
Collocations	+ Add Change
Criteria	+ Add Change
Product mappings	+ Add Change
Queries	+ Add Change
User collocations	+ Add Change

Home › Collocations › Product mappings

Select product mapping to change ADD PRODUCT MAPPING +

Action: 0 of 3 selected

<input type="checkbox"/>	ID	CREATED	UPDATED	SATELLITE PARAMETER	CORRELATIVE PARAMETER	COMMON NAME	SP UNIT	SP SCALING	CP UNIT	CP SCALING	SP NODATA VALUE	CP NODATA VALUE	CONVERSION FORMULA
<input type="checkbox"/>	3	June 25, 2023, 6:36 p.m.	June 25, 2023, 6:36 p.m.	S5P_*_L2__HCHO	H2CO.COLUMN	Formaldehyde	-	-	-	-	-	-	-
<input type="checkbox"/>	2	June 25, 2023, 6:35 p.m.	June 25, 2023, 6:35 p.m.	S5P_*_L2__O3__	O3.COLUMN	Ozone	-	-	-	-	-	-	-
<input type="checkbox"/>	1	June 25, 2023, 6:33 p.m.	June 25, 2023, 6:33 p.m.	S5P_*_L2__SO2__	SO2.COLUMN	Sulphur Dioxide	-	-	-	-	-	-	-

3 product mappings

EVDC Collocation Database

Basic Query Form:

- Simple search based on spatiotemporal criteria and collocated variable selection
- Advanced search will also be provided (detail metadata fields, calculated statistics etc)

Register to search and download collocated file bundles from EVDC Collocations Database.

Find Collocations

Product Type: Sulphur Dioxide

Start date: 01 / 01 / 2023

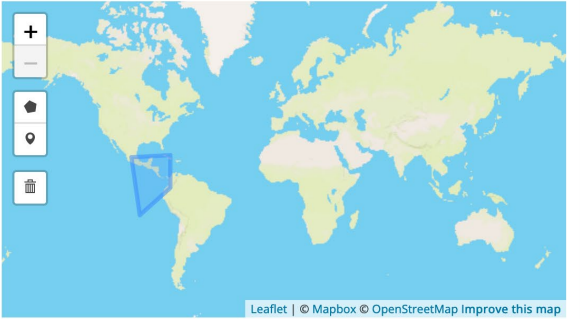
End date: 16 / 11 / 2023

Area of interest wkt: POLYGON((-101.955387 21.58389, -75.930051 22.885536, -75.930051 1.722395, -96.328287 -16.332793, -101.955387 21.58389))

Max Time Diff (minutes): 120

★ Submit

Select Point or Polygon



Leaflet | © Mapbox © OpenStreetMap Improve this map

Support

Skytek • NILU • ESA Contact: nadirteam@nilu.no

EVDC Collocation Database

Example search

results

Collocations of Sulphur Dioxide		
Filenames		Max Time Difference (HH:MM)
Sat S5P_NRTI_L2_SO2___20230502T183922_20230502T184422_28763_03_020401_20230502T203400 Corr groundbased_uvvis.doas.directsun.so2_epa134_rd.rsus1.1.8_bristol.pa_20230501t155237z_20230501t203919z_001.h5		26:46
Sat S5P_NRTI_L2_SO2___20230502T183422_20230502T183922_28763_03_020401_20230502T191202 Corr groundbased_uvvis.doas.directsun.so2_epa134_rd.rsus1.1.8_bristol.pa_20230501t155237z_20230501t203919z_001.h5		26:41
Sat S5P_NRTI_L2_SO2___20230502T165922_20230502T170422_28762_03_020401_20230502T173603 Corr groundbased_uvvis.doas.directsun.so2_epa134_rd.rsus1.1.8_bristol.pa_20230501t155237z_20230501t203919z_001.h5		25:6
Sat S5P_NRTI_L2_SO2___20230106T180905_20230106T181405_27117_03_020401_20230106T184825 Corr groundbased_uvvis.doas.directsun.so2_epa166_rd.rsus1.1.8_philadelphia.new.pa_20230106t172728z_20230106t202914z_001.h5		2:15
Sat S5P_NRTI_L2_SO2___20230102T110405_20230102T110905_27056_03_020401_20230102T114922 Corr groundbased_uvvis.doas.directsun.so2_nasa.gsfc030_rd.rsus1.1.8_juelich_20230101t095127z_20230101t120232z_001.h5		25:12
Sat S5P_NRTI_L2_SO2___20230105T182905_20230105T183405_27103_03_020401_20230105T190700 Corr groundbased_uvvis.doas.directsun.so2_epa166_rd.rsus1.1.8_philadelphia.new.pa_20230106t172728z_20230106t202914z_001.h5		25:55
Sat S5P_NRTI_L2_SO2___20230101T130405_20230101T130905_27043_03_020401_20230101T134433 Corr groundbased_uvvis.doas.directsun.so2_nasa.gsfc030_rd.rsus1.1.8_juelich_20230101t095127z_20230101t120232z_001.h5		3:12
Sat S5P_NRTI_L2_SO2___20230101T112405_20230101T112905_27042_03_020401_20230101T120654 Corr groundbased_uvvis.doas.directsun.so2_nasa.gsfc030_rd.rsus1.1.8_juelich_20230101t095127z_20230101t120232z_001.h5		1:32
Sat S5P_OFFL_L2_SO2___20230102T095319_20230102T113449_27056_03_020401_20230104T075255 Corr groundbased_uvvis.doas.directsun.so2_nasa.gsfc030_rd.rsus1.1.8_juelich_20230101t095127z_20230101t120232z_001.h5		24:23
Sat S5P_NRTI_L2_SO2___20230120T102306_20230120T102806_27311_03_020401_20230120T122749 Corr groundbased_uvvis.doas.directsun.so2_noa119_rd.rsus1.1.8_athens.noath_20230119t062859z_20230119t145405z_001.h5		27:54
Sat S5P_NRTI_L2_SO2___20230119T104306_20230119T104806_27297_03_020401_20230119T124718 Corr groundbased_uvvis.doas.directsun.so2_noa119_rd.rsus1.1.8_athens.noath_20230119t062859z_20230119t145405z_001.h5		4:14

EVDC Orbit Tools

Functionalities:

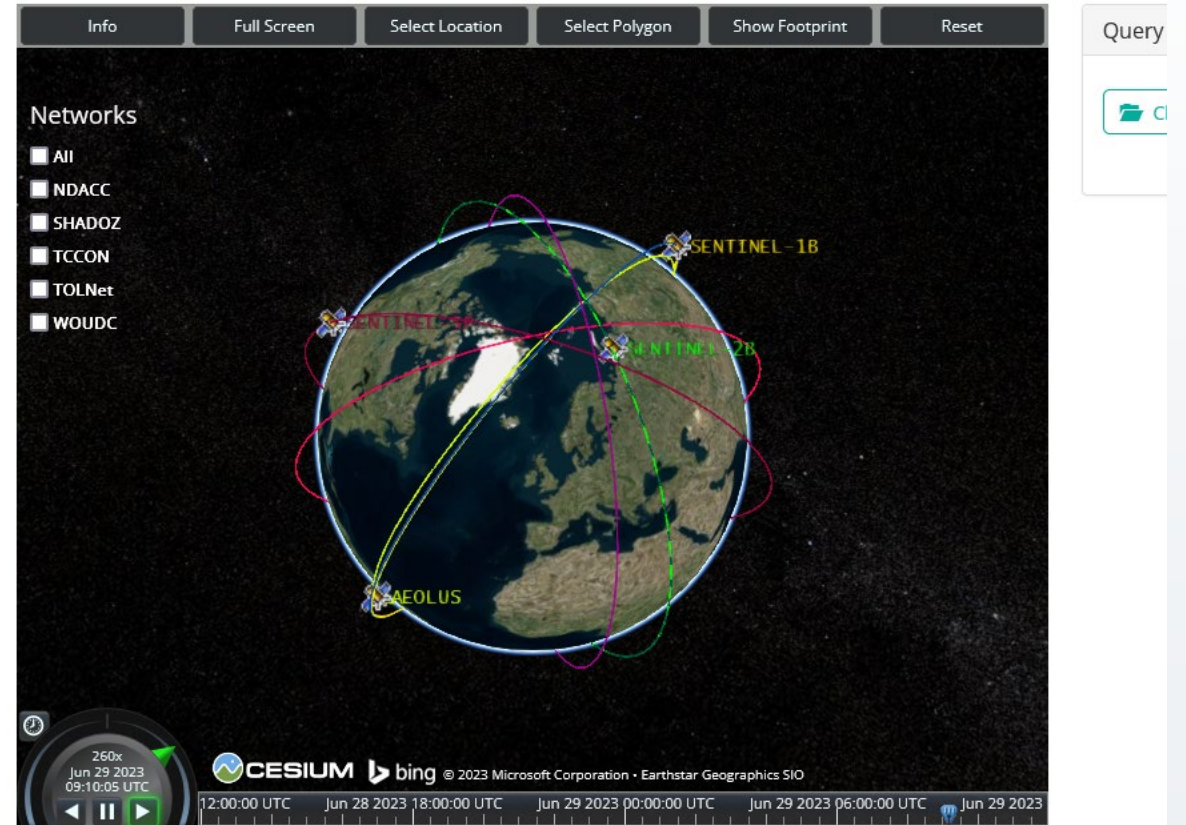
- Orbit Prediction and Visualisation
- Finding Overpasses over AOIs
- Cal/Val Networks overlay and info
- Satellite footprint visualisation
- Overpass data download

Operation Summary

Predict Orbits from 2023-6-28 to 2023-6-29

Selected Satellites: AEOLUS, CALIPSO, SENTINEL-1A, SENTINEL-1B, SENTINEL-2A, SENTINEL-2B, SENTINEL-5P, METOP-A

Selected Instruments: Aladin, IIR, IASI, C-SAR, C-SAR, MSI, MSI, TROPOMI





THANK YOU!

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