

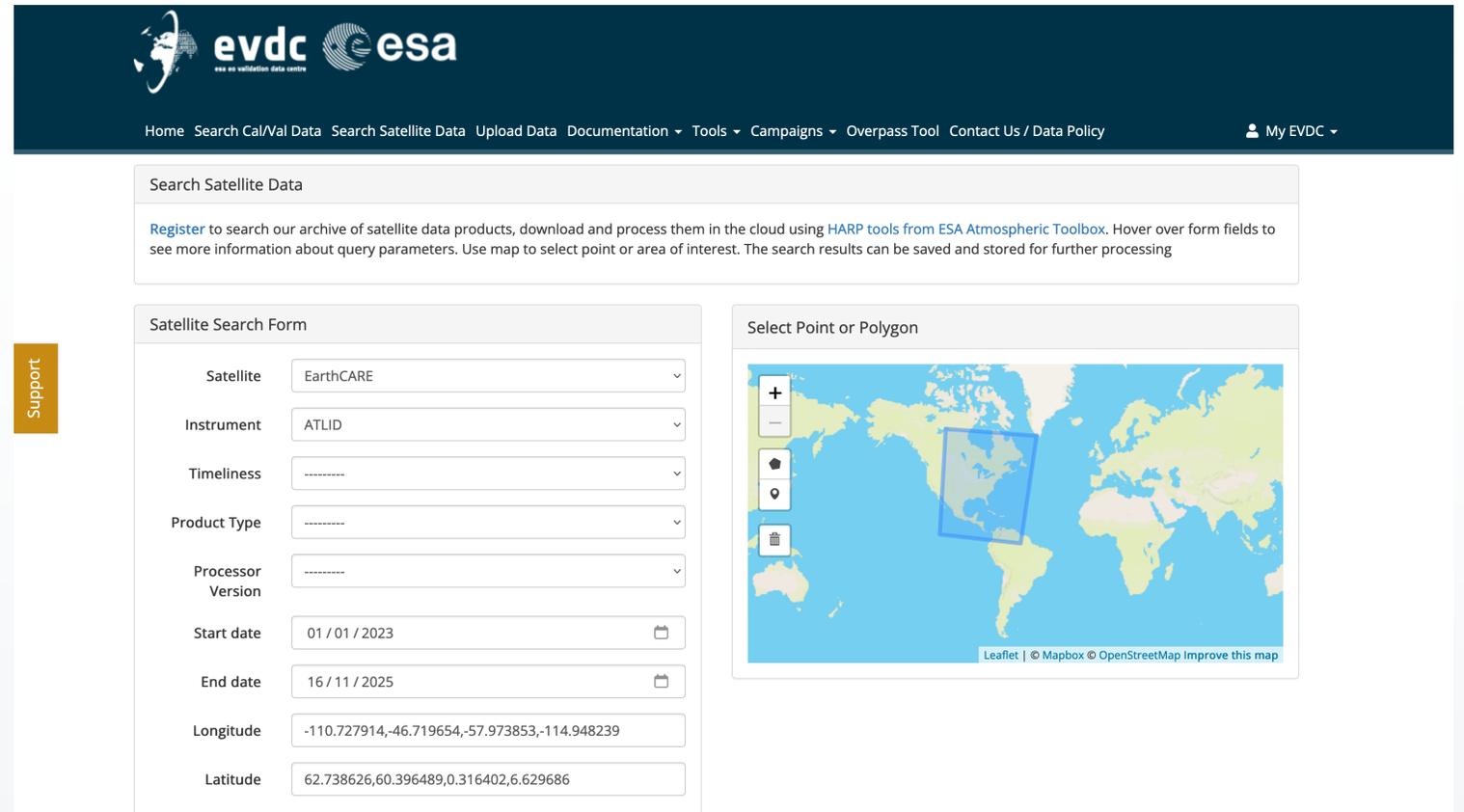
EVDC – Satellite data archive

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 (Earth 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 "Register" link and a brief description of the search process. Below this, there is a "Satellite Search Form" with several dropdown menus for Satellite (EarthCARE), Instrument (ATLID), Timeliness, Product Type, and Processor Version. It also includes date pickers for Start date (01 / 01 / 2023) and End date (16 / 11 / 2025), and text input fields for 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 located to the left of the search form.

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 search engine 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, and Contact Us / Data Policy. A user profile icon labeled 'My EVDC' is in the top right corner.

Below the header, the search results page displays 'Page 1 out of 1 (13 Results)'. A button labeled 'Save Search and Process Results' is visible. The search results are presented in a table with the following columns: Thumbnail, File Name, Size (MB), Created, Satellite Name, and Instrument.

<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



Support

<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

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



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

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

Leaflet | © Mapbox © OpenStreetMap, improve this map

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



Principal
Investigator



AO ID



DOI

<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

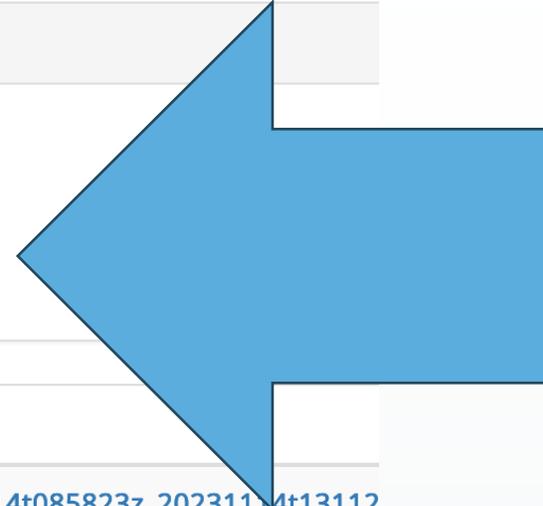
Search Results (74)

Q Search

74 Total

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

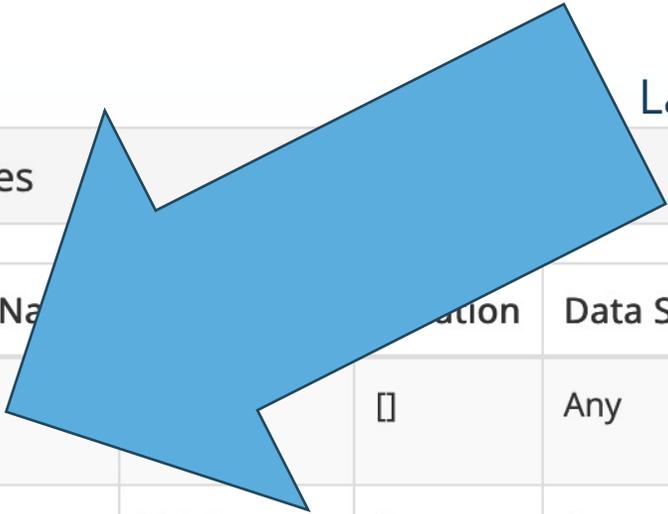
<input type="checkbox"/>	File name link
<input checked="" type="checkbox"/>	groundbased_uvis.doas.directsun.so2_nasa.gsfc021_rd.rsus1.1.8_bremen_20231114t085823z_20231114t13112
<input checked="" type="checkbox"/>	groundbased_uvis.doas.directsun.so2_nasa.gsfc021_rd.rsus1.1.8_bremen_20231113t085810z_20231113t10010
<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	Unit	Data Source Type	From	To		
search-1506 	Any		Any	Aug. 18, 2023, midnight	Nov. 16, 2023, midnight		
search-1504 	Any	EVDC	Any	Nov. 1, 2023, midnight	Nov. 14, 2023, midnight		
	Any	EVDC	Any	May 12, 2023, midnight	June 10, 2023, midnight		
search-1503 	Any	EVDC	Any	Oct. 9, 2023, midnight	Nov. 7, 2023, midnight		
search-1502 	N2O.COLUMN	Any	Any	March 12, 2002, midnight	June 10, 2023, midnight		

EVDC – Processing Workflows

Support

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.	CLM_GEM_Data			
#4	June 27, 2023, 10:51 p.m.	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		

- ✓ 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, a navigation menu includes links for 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 also present.

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

EVDC – Processing Workflows



The screenshot shows the 'Workflow Elements and Tools' section of the EVDC interface. On the left, there is a vertical orange bar with the word 'Support' written vertically. The main area contains two buttons: 'Add Input Data +' (yellow) and 'Add Workflow Step +' (blue). Below these buttons is a dropdown menu for 'Select Data' with a checkmark icon. The menu lists several options: 'ec-sample (sat)', 'my s5p (sat)', 'storm110.hdf (file)', 'test_file_wrong_ext.txt (file)', 'ice_cloud_all_channels(1).json (file)' (highlighted in blue), 'evdc_file_1672899.tar.gz (file)', 'search-1506 (corr)', 'search-1504 (corr)', 'null (corr)', 'search-1503 (corr)', and 'search-1502 (corr)'. To the right of the dropdown is a 'Select Tool' input field.

Use

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

as workflow inputs

EVDC – Processing Workflows

The screenshot displays the 'Workflow Elements and Tools' interface. At the top, there are three buttons: 'Add Input Data +', 'Add Workflow Step +', and 'Add Value +'. Below these, there is a dropdown menu for input data showing 'ice_cloud_all_channels(1).json (file)'. The 'Add Workflow Step +' button is active, and a dropdown menu is open, listing various tools. The 'msi_tool' is highlighted in blue. Below the dropdown, there is a section titled 'Workflow: my new workflow' containing a single step labeled 'ice_cloud_all_channels(1).json'. A vertical 'Support' label is on the left side of the interface.

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

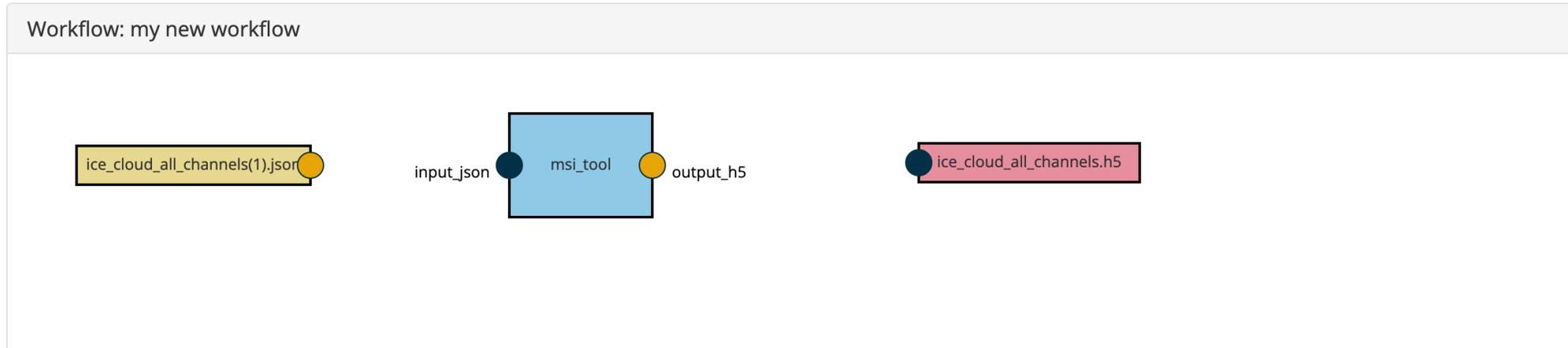
- MSI Tool
- Lidar Tool (CLS)
- Radar Tool
- CIS with EarthCARE product readers

EVDC – Processing Workflows

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

Define Outputs



EVDC – Processing Workflows

Workflow Elements and Tools

Add Input Data +

ice_cloud_all_channels(1).json (file) ▾

Add Workflow Step +

msi_tool ▾

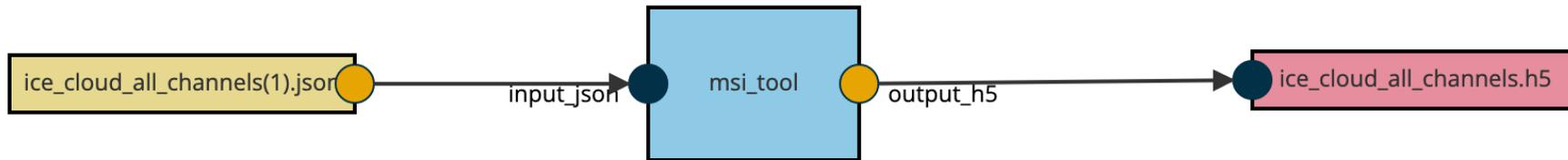
Add Value +

define value...

Add Output +

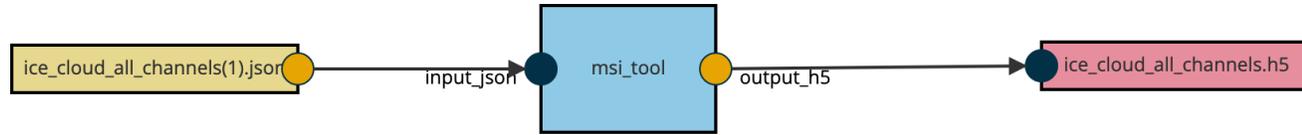
ice_cloud_all_channels.h5

Workflow: my new workflow

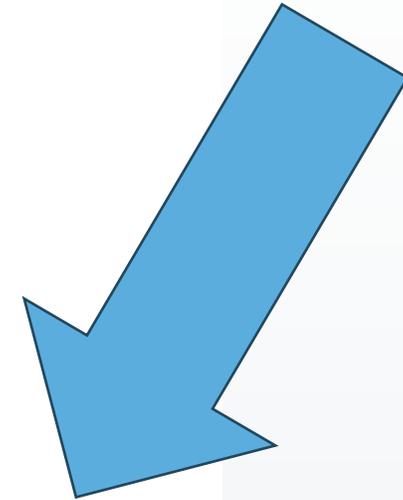


EVDC – Processing Workflows

Workflow: my new workflow



Save and Execute

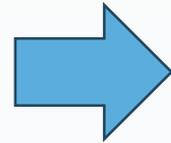
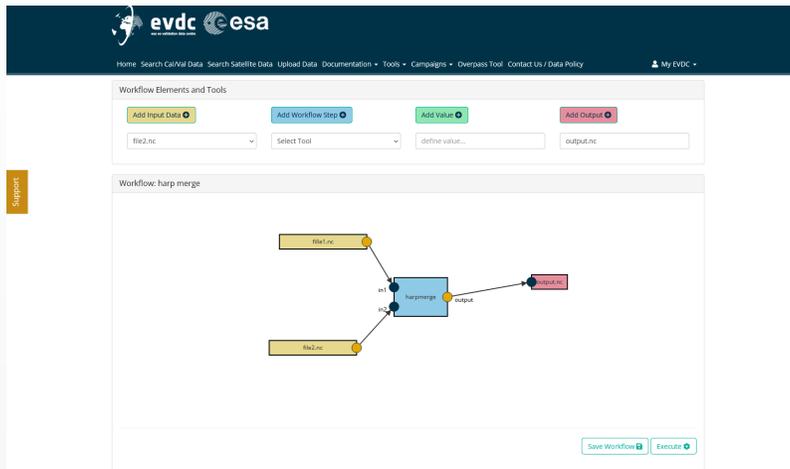


Save Workflow 

Execute 

EVDC Processing System - Backend Infrastructure

Processing infrastructure



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

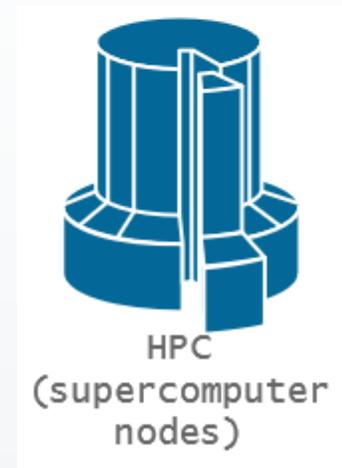
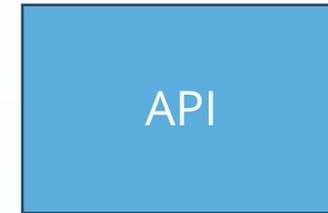
cwlVersion: v1.2
# This CommandLineTool executes the linux "harpmerge" command-
line tool.

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

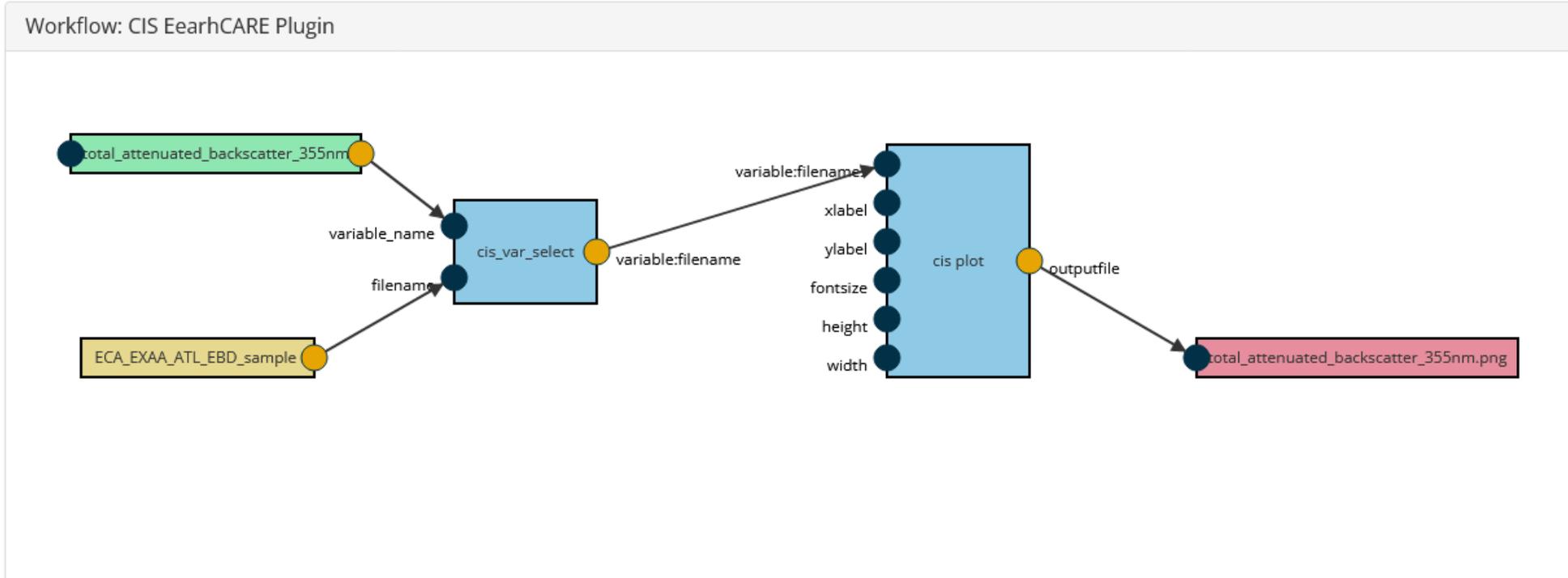


CIS Tool. EarthCARE plugin (reader)

Workflow Elements and Tools

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

Select Data cis_var_select total_attenuated_backscatter_355nm l_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](#)

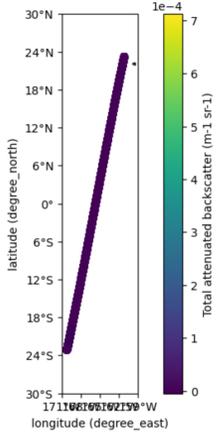
EXECUTION: Task ID c7b68de8-93af-406f-a9be-25f3ac021570 of workflow CIS EarthCARE Plugin (Clone)

```

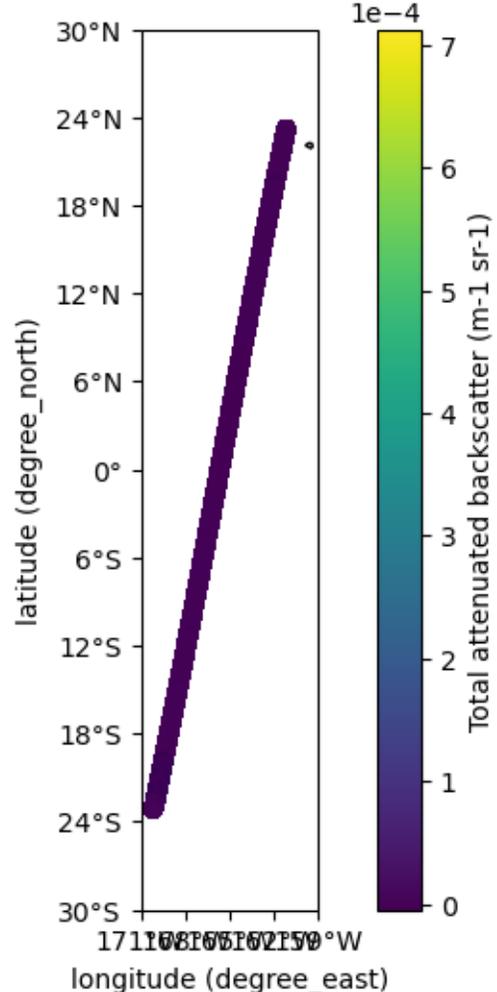
INFO[0m /usr/bin/cwlttool 3.1.20230209161050
INFO[0m Resolved 'cwl_script_zbbagkbfflfadaiaq' to 'file:///tmp/tmp_f4qk5so/cwl_script_zbbagkbfflfadaiaq'
INFO[0m [job_cwl_script_zbbagkbfflfadaiaq] /tmp/hqk7_ort$ printf 'message' > /tmp/hqk7_ort/out_file 2> /tmp/hqk7_ort/out_file
INFO[0m [job_cwl_script_zbbagkbfflfadaiaq]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

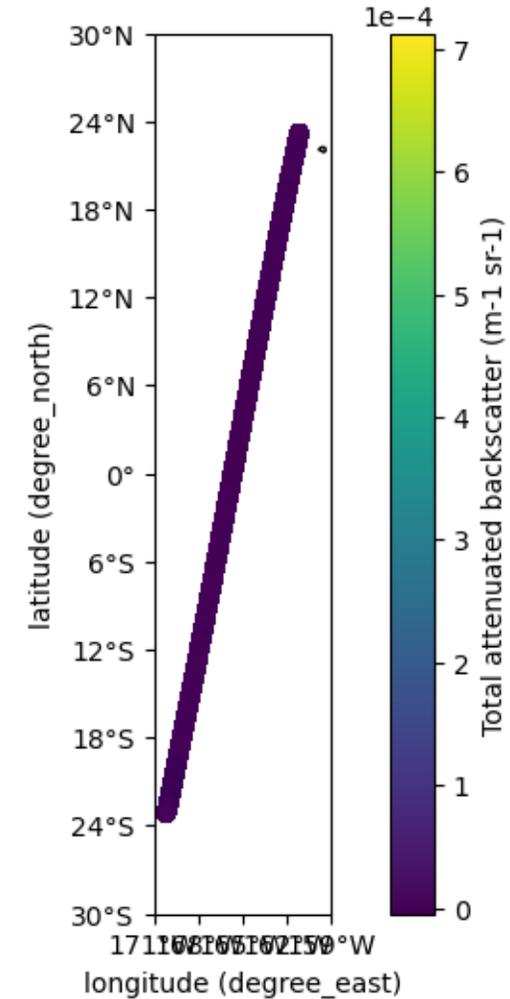
Outputs:



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

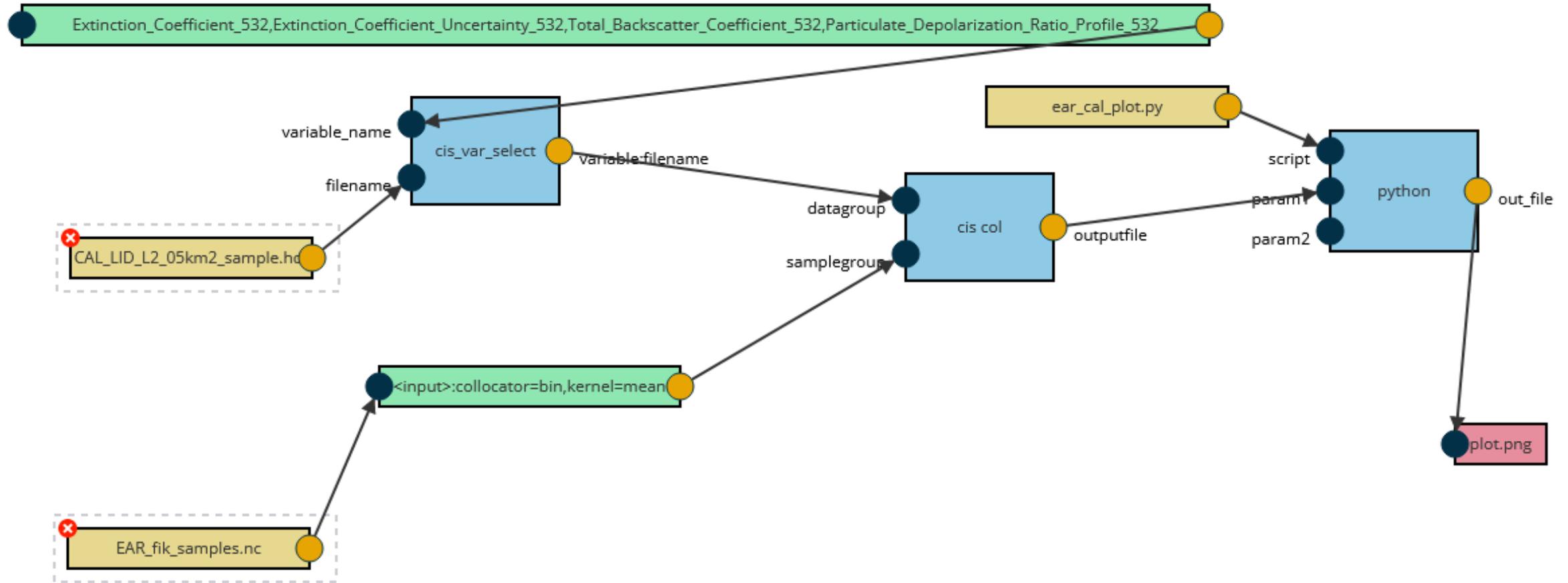


Skytek · NILU · ESA nadirteam@nilu.no
Contact:

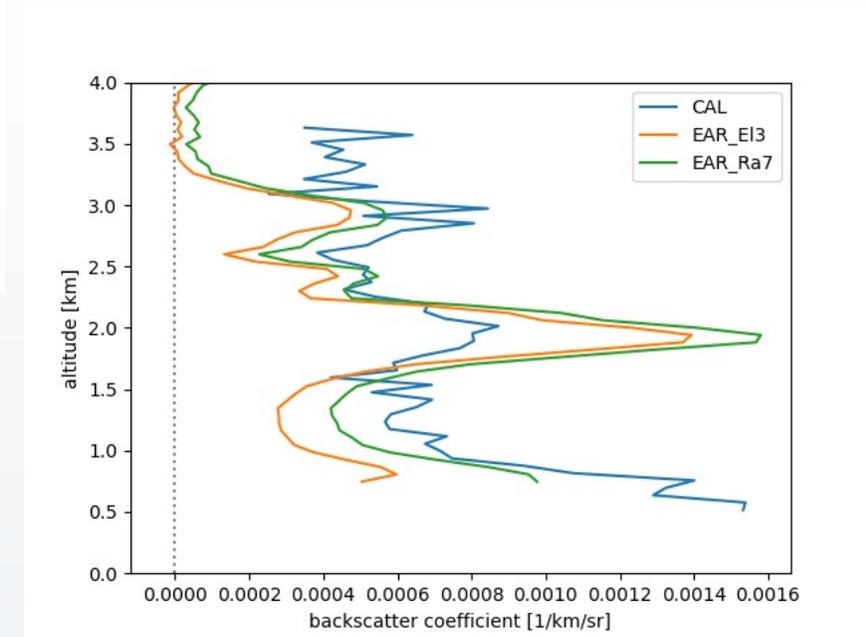
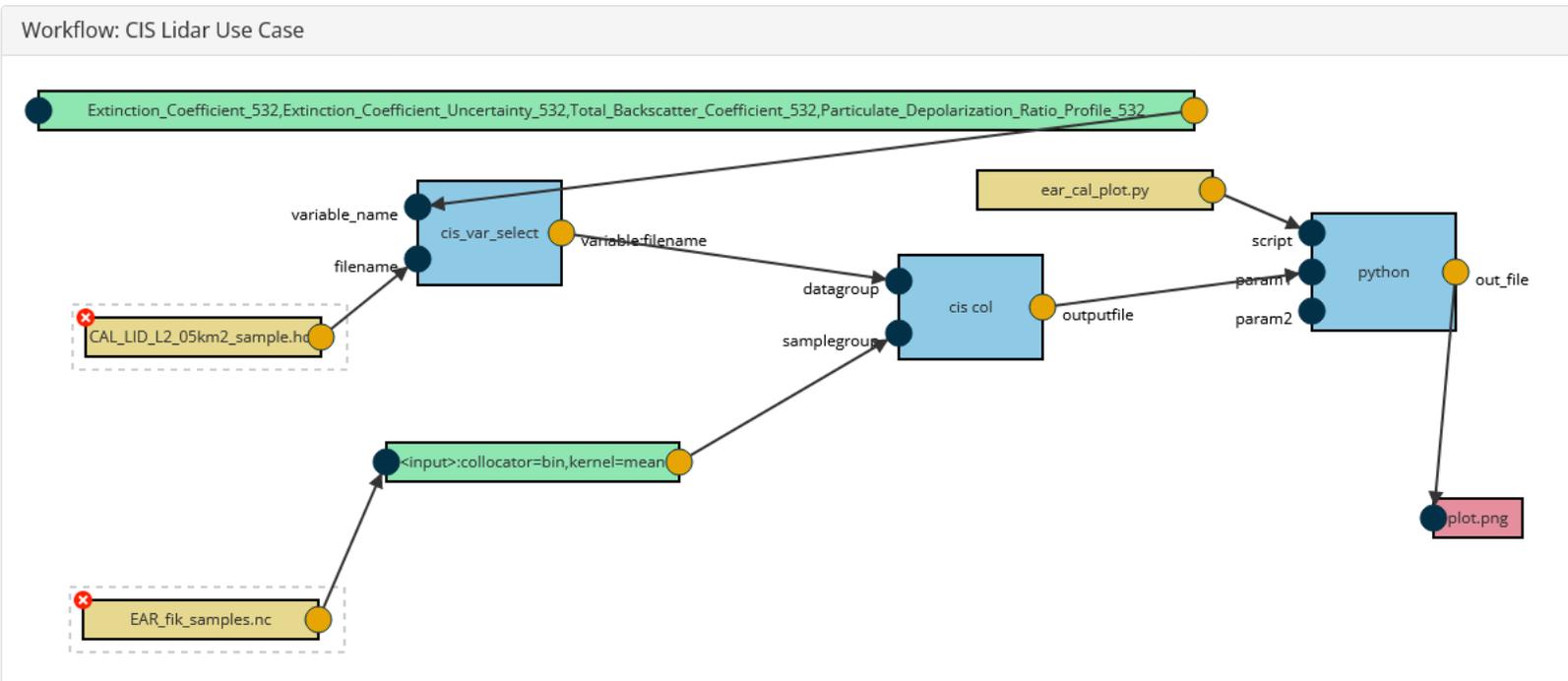


CIS Tool. More practical use case

Workflow: CIS Lidar Use Case

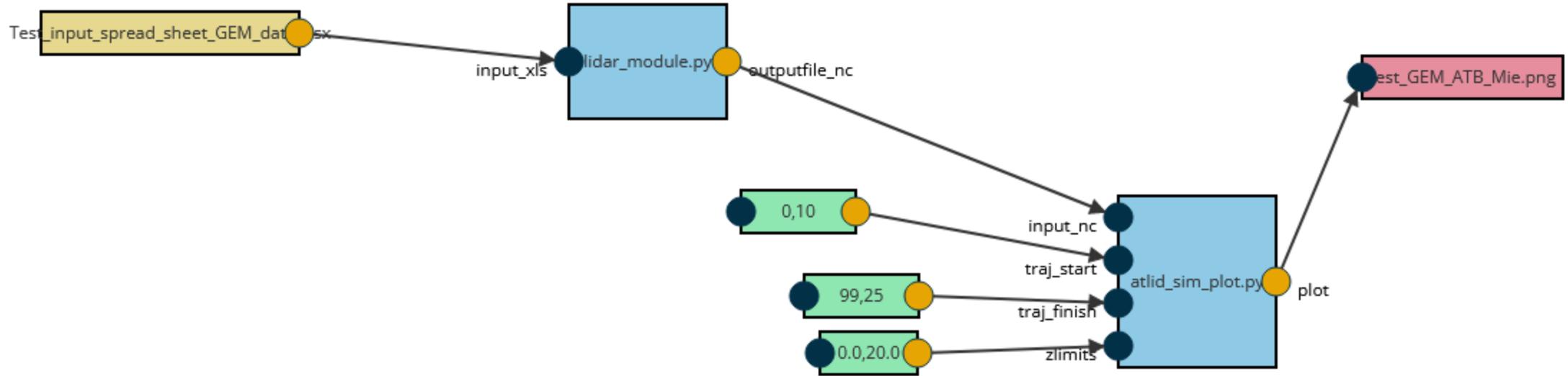


CIS Tool. More practical use case

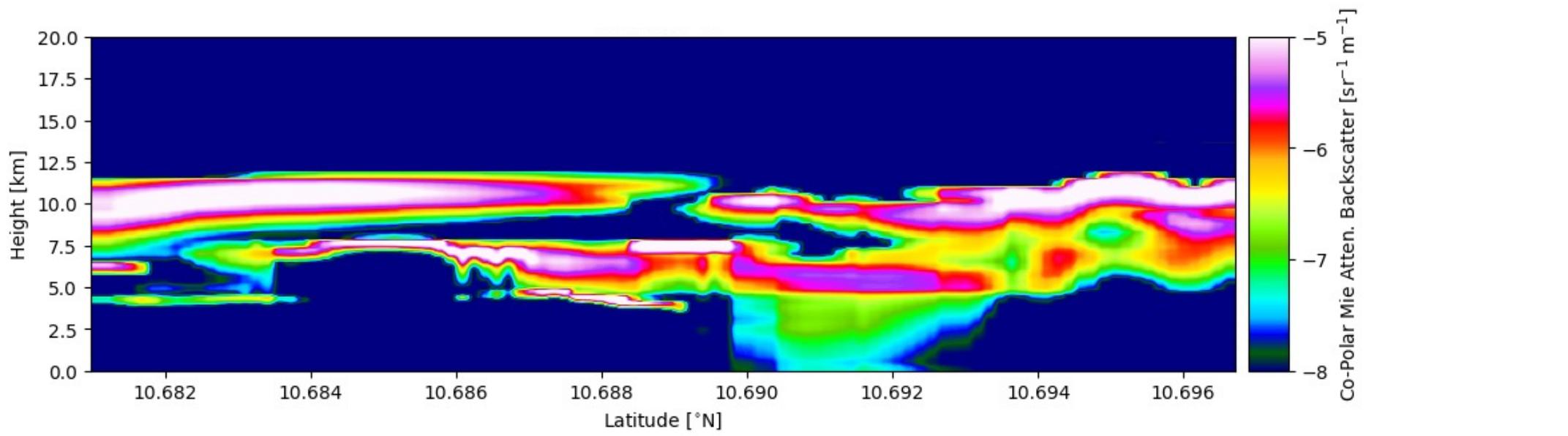
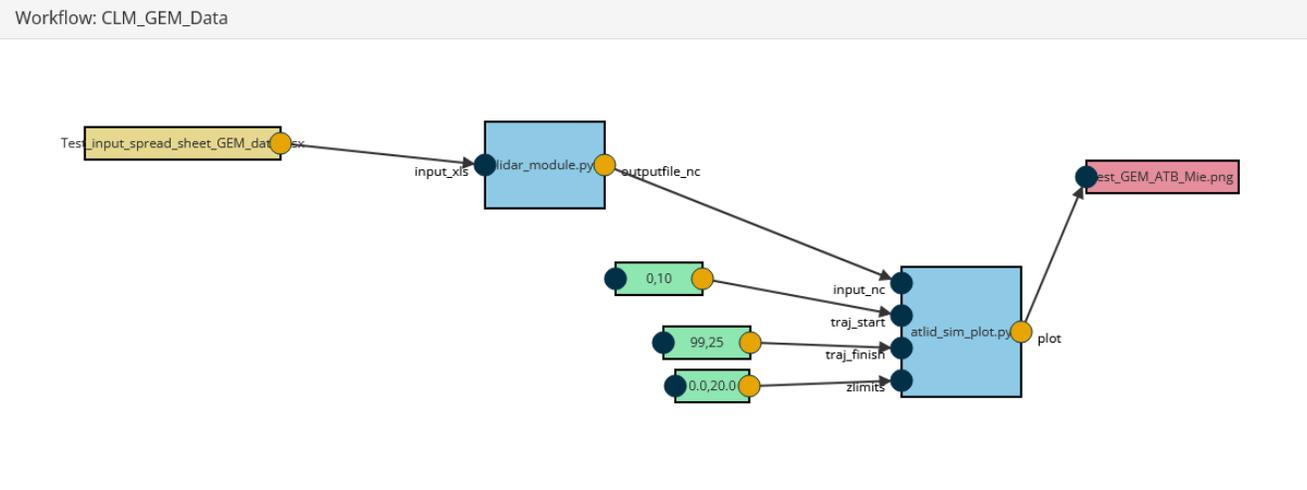


CLM. Lidar Tool Example

Workflow: CLM_GEM_Data



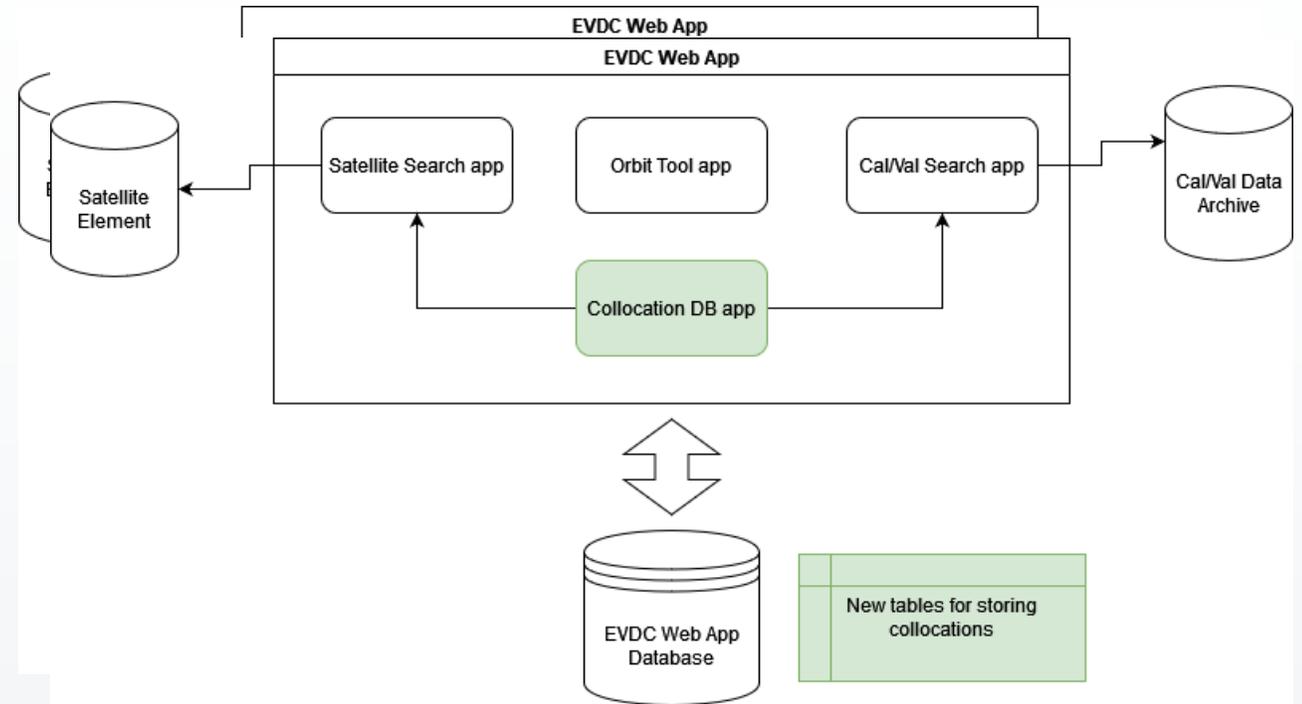
CLM. Lidar Tool Example



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
Criterias	+ Add Change
Product mappings	+ Add Change
Querys	+ 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



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

Collocations of Sulphur Dioxide

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