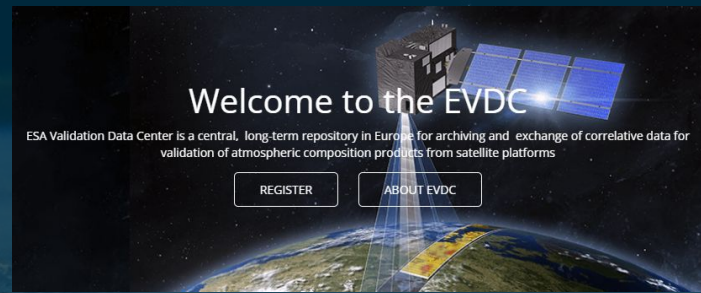


EVDC - ESA Atmospheric Validation Center

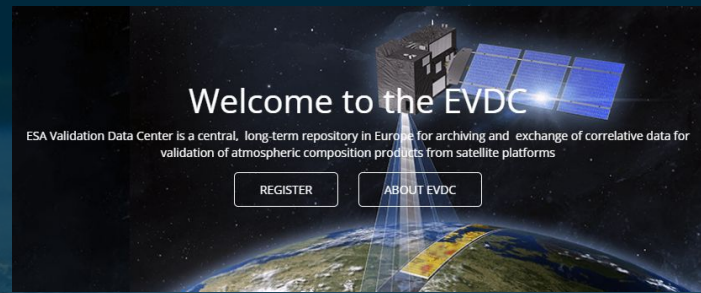
Introduction for Cal/Val community

Ann Mari Fjæraa, Ian Boyd, Yong Lin, Richard Rud, Paul Eckhardt, Martin A.Ytre-Eide



Topic	Duration (minutes)
Introduction to EVDC as Cal/Val infrastructure	20
User accounts, data formatting, data submission	40
Demo	20
Q&A/discussions	40





Introduction to EVDC as Cal/Val infrastructure.

ESA Validation Data Center is a central, long-term repository for archiving and exchange of correlative data for validation of atmospheric composition products from satellite platforms.

EVDC consists of three parts; Satellite database, **Cal/Val Database Infrastructure, and Web Pages**
Satellite database incl. orbital prediction and overpass tool OPOT are demonstrated on June 28th .

EVDC web pages <https://evdc.esa.int>



EVDC is built to assist ESA and scientists with archival and exchange of correlative data for validation of Earth Observation of satellite instrument atmospheric composition products and provides both the temporary archive and the final archive for the data.

EVDC builds on the previous ENVISAT Cal/ Val database system in operation at NILU since the early 2000s, and includes now tools for extraction, conversion and archival of a large amount of EO data.

NADIR-TEAM refers to the NADIR database successfully used for the GOME validation campaign and for several projects under European coordination in the 1990s, in particular EASOE, SESAME, THESEO/THESEO-2000, VINTERSOL

nadirteam@nilu.no

Welcome to the EVDC

ESA Validation Data Center is a central, long-term repository in Europe for archiving and exchange of correlative data for validation of atmospheric composition products from satellite platforms

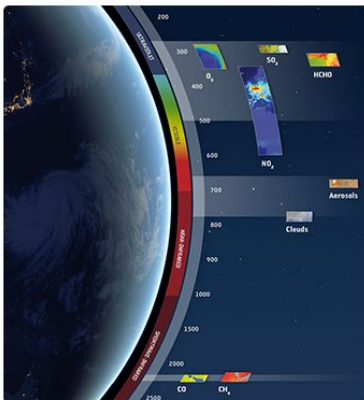
REGISTER

ABOUT EVDC

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SEARCH & DOWNLOAD



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3th October 2022

The Satellite Data Search component is undergoing a scheduled maintenance and

Tweets from @evdc_team



EVDC · May 26
 Heard about MISO yet? MISO's autonomous in-situ observation platform will be for use in hard-to-reach areas

Web pages navigation and use of the system as

- Scientific User/ basic user
- Data Provider/ expert user

Registration and login

Welcome to the EVDC

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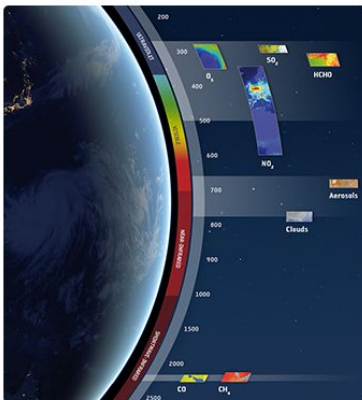
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- Scientific User/ basic user
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Demonstration of the «Search Cal/Val» functionality

Data

Location NY.ALESUND

Data Source -----

Data Discipline Field -----

Data Discipline Class -----

Data Originator -----

Data Supplier -----

Search Results (348)

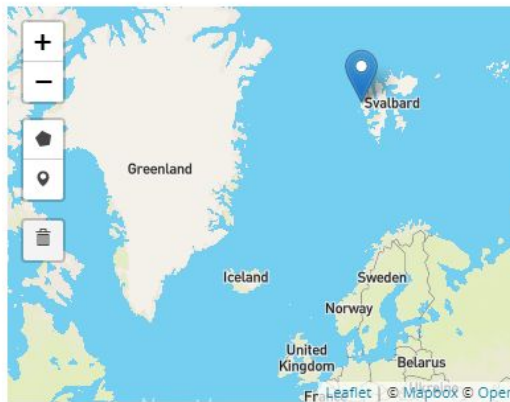
Q Search

348 Total - Showing 100

Select All On Page Clear Selection Download Selected Files

<input type="checkbox"/>	File name link	File Size	Submission date	PI	Campaign
<input type="checkbox"/>	groundbased_ftir.hf_awi001_ny.alesund_20220323t091425z_20220914t092305z_009.hdf	5283 kB	2023-05-17 09:39:45.000	Justus Notholt	EVDC, NDACC
<input type="checkbox"/>	groundbased_ftir.hcn_awi001_ny.alesund_20220323t091208z_20220828t131209z_009.hdf	4883 kB	2023-05-17 09:39:20.000	Justus Notholt	EVDC, NDACC
<input type="checkbox"/>	groundbased_ftir.hcl_awi001_ny.alesund_20220323t090039z_20220914t090730z_009.hdf	4284 kB	2023-05-17 09:38:55.000	Justus Notholt	EVDC, NDACC
<input type="checkbox"/>	groundbased_ftir.o3_awi001_ny.alesund_20220325t143045z_20220826t114134z_009.hdf	3799 kB	2023-05-14 09:34:42.000	Justus Notholt	EVDC, NDACC
<input type="checkbox"/>	groundbased_ftir.h2co_awi001_ny.alesund_20220323t090039z_20220914t090730z_009.hdf	6254 kB	2023-05-14 09:34:10.000	Justus Notholt	EVDC, NDACC
<input type="checkbox"/>	groundbased_ftir.co_awi001_ny.alesund_20220325t145011z_20220826t115410z_009.hdf	2143 kB	2023-05-14 09:34:00.000	Justus Notholt	EVDC, NDACC
<input type="checkbox"/>	groundbased_ftir.ch4_awi001_ny.alesund_20220323t090039z_20220914t090730z_009.hdf	6396 kB	2023-05-14 09:33:33.000	Justus Notholt	EVDC, NDACC
<input type="checkbox"/>	groundbased_ftir.n2o_awi001_ny.alesund_20220323t090039z_20220914t090730z_009.hdf	6225 kB	2023-05-13 09:42:37.000	Justus Notholt	EVDC, NDACC
<input type="checkbox"/>	groundbased_uvvis.doas.directsun.so2_nilu152_rd.rsus1.1.8_ny.alesund_20220728t153906z_20220728t155953z_001.h5	44 kB	2023-03-13 17:56:24.000	Ann Mari Fjaeraa	AVDC, EVDC, PGN
<input type="checkbox"/>	groundbased_uvvis.doas.directsun.o3_nilu152_rd.rout2.1.8_ny.alesund_20220728t153906z_20220728t155953z_001.h5	44 kB	2023-03-13 17:56:16.000	Ann Mari Fjaeraa	AVDC, EVDC, PGN
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<input type="checkbox"/>	groundbased_uvvis.doas.directsun.so2_nilu152_rd.rsus1.1.8_ny.alesund_20220713t210458z_20220713t210546z_001.h5	44 kB	2023-02-20 15:47:46.000	Ann Mari Fjaeraa	AVDC, EVDC, PGN
<input type="checkbox"/>	groundbased_uvvis.doas.directsun.o3_nilu152_rd.rout2.1.8_ny.alesund_20220713t210458z_20220713t210546z_001.h5	44 kB	2023-02-20 15:47:38.000	Ann Mari Fjaeraa	AVDC, EVDC, PGN

Stations



Search Cal/Val Data

Search our database of Cal/Val data. [Log in](#) to download the data products. Hover over the form fields to see more information about search criteria. Browse Documentation section of EVDC (see the menu above) to find out more about GEOMS standard and metadata.

Data

Location ×

Data Source Type

Data Discipline Field

Data Discipline Class

Data Originator

Data Supplier

Stations



Other

Frameworks

- Principal Investigator
- AO ID
- DOI

-
-
- AEOLUS
- AVDC
- CLOUDNET
- COCCON
- COSE
- EARLINET
- ESA-CCI
- EUBREUNET
- EVDC
- FRM4GHG
- HYMN
- NDACC
- PGN
- RAMOS
- SHADOZ
- TCCON
- TCCON4S5P
- THESEO

Data provision framework/network. More information about available frameworks here

Time and Location

Date Min

Date Max

Spatial Filter Off
 Point
 Bounding Box

Point/Min Longitude (Deg)

Point/Min Latitude (Deg)

Point/Min Altitude (m)

Max Longitude (Deg)

Data

Location

Data Source Type

Data Discipline Field

Data Discipline Class

Data Originator

Data Supplier

Other

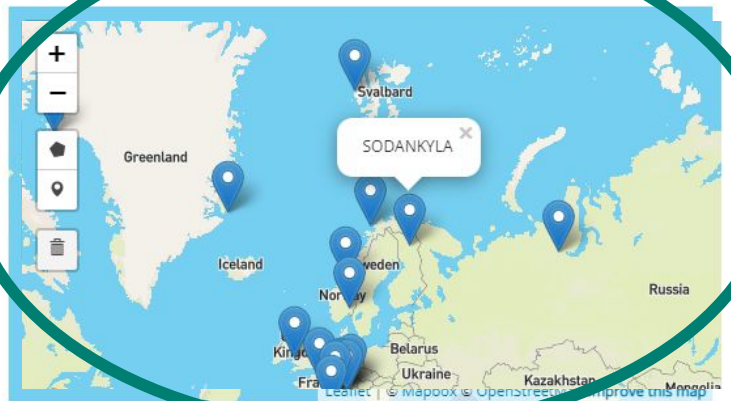
Frameworks

Principal Investigator

AO ID

DOI

Stations



Time and Location

Date Min

Date Max

Spatial Filter Off
 Point
 Bounding Box

Point/Min Longitude (Deg)

Point/Min Latitude (Deg)

Point/Min Altitude (m)

Max Longitude (Deg)

Points to note:

All data are visible,
but access restrictions may apply

Default date search field is set to
three prev. months

Search Results (348)

348 Total - Showing 100

Select All On Page Clear Selection Download Selected Files

<input type="checkbox"/>	File name link	File Size	Submission date	PI	Campaign
<input type="checkbox"/>	groundbased_ftr_hd_aw001_ry_alesund_20220328091425t_20220914092305t_009.hdf	5283 kB	2023-05-17 09:39:45.000	Justus Notholt	EVDC_NDACC
<input type="checkbox"/>	groundbased_ftr_hd_aw001_ry_alesund_20220328091425t_20220914092305t_009.hdf	4883 kB	2023-05-17 09:39:30.000	Justus Notholt	EVDC_NDACC
<input type="checkbox"/>	groundbased_ftr_hd_aw001_ry_alesund_20220328091425t_20220914092305t_009.hdf	4284 kB	2023-05-17 09:38:55.000	Justus Notholt	EVDC_NDACC
<input type="checkbox"/>	groundbased_ftr_o3_aw001_ry_alesund_20220326143045t_20220826114134t_009.hdf	3799 kB	2023-05-14 09:34:42.000	Justus Notholt	EVDC_NDACC
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<input type="checkbox"/>	groundbased_levs_dos_directsun_v2_nrl152_rd_rsuat1.1_8_ry_alesund_202207281153906t_202207281155953t_001.t5	44 kB	2023-03-13 17:56:24.000	Ann Mari Fjaeraa	AVDC, EVDC, PGN
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Data

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Data Source Type: [Dropdown]

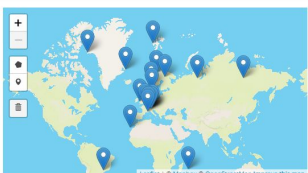
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Data Discipline Class: [Dropdown]

Data Originator: [Dropdown]

Data Supplier: [Dropdown]

Stations



Leaflet | © Mapbox, © OpenStreetMap, Improve this map

Other

Frameworks: [Dropdown]

Principal Investigator: [Dropdown]

AD ID: AOD158 [Dropdown]

DOI: [Text]

Time and Location

Date Min: 24.03.2023 [Calendar]

Date Max: 22.06.2023 [Calendar]

Spatial Filter: Off Point Bounding Box

Point/Min Longitude (Deg): [Text]

Point/Min Latitude (Deg): [Text]

Point/Min Altitude (m): [Text]

Max Longitude (Deg): [Text]

EVDC web pages – info's where and what

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

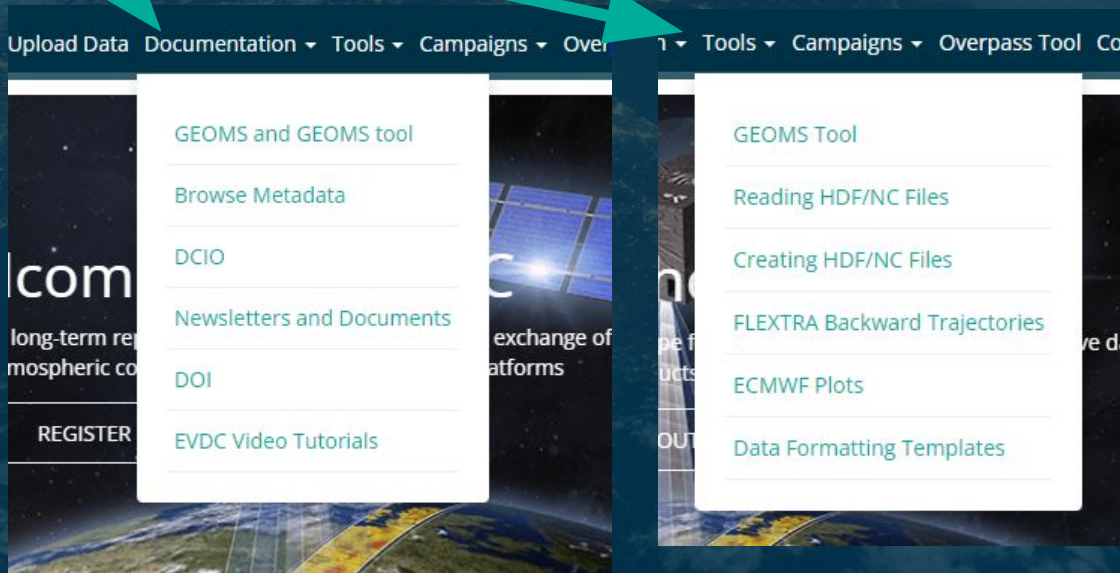
[Search Cal/Val](#) already shown

[Search Satellite Data](#) tomorrow

[Upload Data](#) ...in a few minutes

[Documentation](#)

[Tools](#)



Upload Data Documentation Tools Campaigns Overpass Tool Contact Us / Data Policy

Documentation dropdown:

- GEOMS and GEOMS tool
- Browse Metadata
- DCIO
- Newsletters and Documents
- DOI
- EVDC Video Tutorials

Tools dropdown:

- GEOMS Tool
- Reading HDF/NC Files
- Creating HDF/NC Files
- FLEXTRA Backward Trajectories
- ECMWF Plots
- Data Formatting Templates

EVDC web pages – info's where and what

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

Campaign internal pages, shown during the demo in the next part of today's session

Overpass Tool tomorrow

Contact Us / Data Policy

Updated: 22 Jun 2023

Contact Information and Data Policies

How to register?

To become a registered user and be able to use full capabilities of EVDC platform such as downloading the correlative data and satellite data products and using the processing system to subset the satellite products please start from signing the following data protocols

How to register?

The EVDC data protocol, which is found [here](#)

The EarthCARE protocol, which is found [here](#)

The JATAC data protocol, which is found [here](#)

After reviewing the signed protocol we will issue the access credentials.

How to contact us and get support?

Please contact us on nadirteam@nilu.no or use the Support Facility by clicking the tab on the left edge of the screen.

EVDC Team is also active on twitter https://twitter.com/evdc_team - follow us for updates on open calls, projects, news, maintenance, and other relevant topics.

Data privacy policies

Welcome to the EVDC

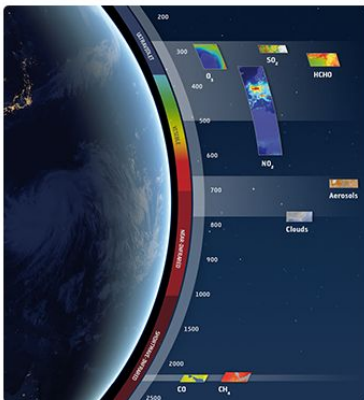
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Tweets from @evdc_team



Heard about MISO yet? MISO's autonomous in-situ observation platform will be for use in hard-to-reach areas

Login only after registration

Separation between;

- General EVDC users, open data

- Mission specific users, access to restricted data

For example; Access to data from all AOID Cal/Val teams

Login

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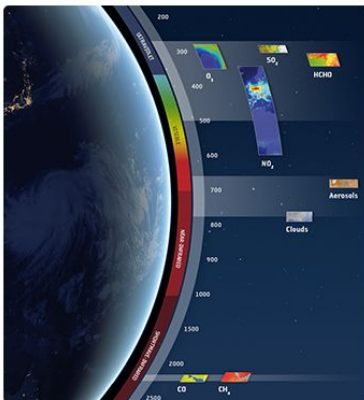
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My EVDC

My Searches

My Harp Operations

My Orders

Logout anm