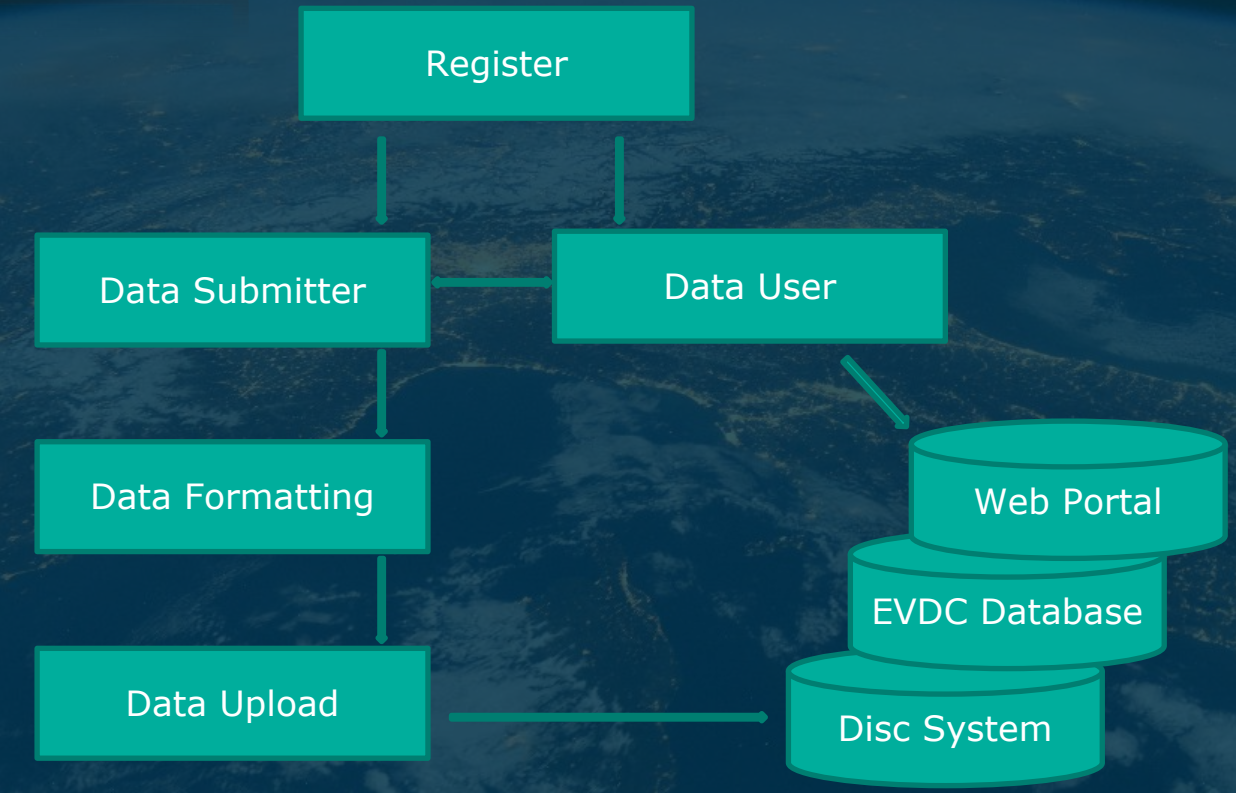
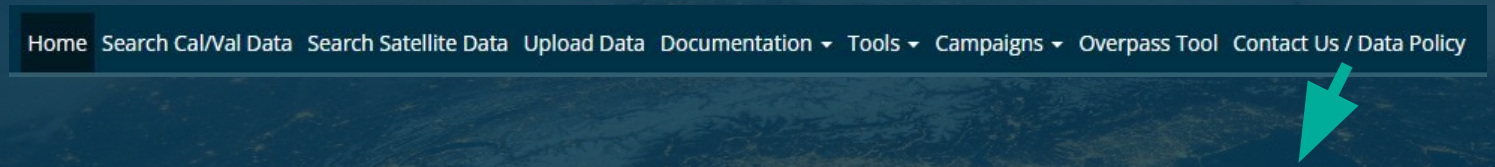
Introduction to EVDC as Cal/Val infrastructure	20
User accounts, data formatting, data submission	**40**
Demo	20
Q&A/discussions	40


Register
Data Submitter
Data User
Data Formatting
Web Portal
EVDC Database
Data Upload
Disc System

Data Agreements/Data Protocols



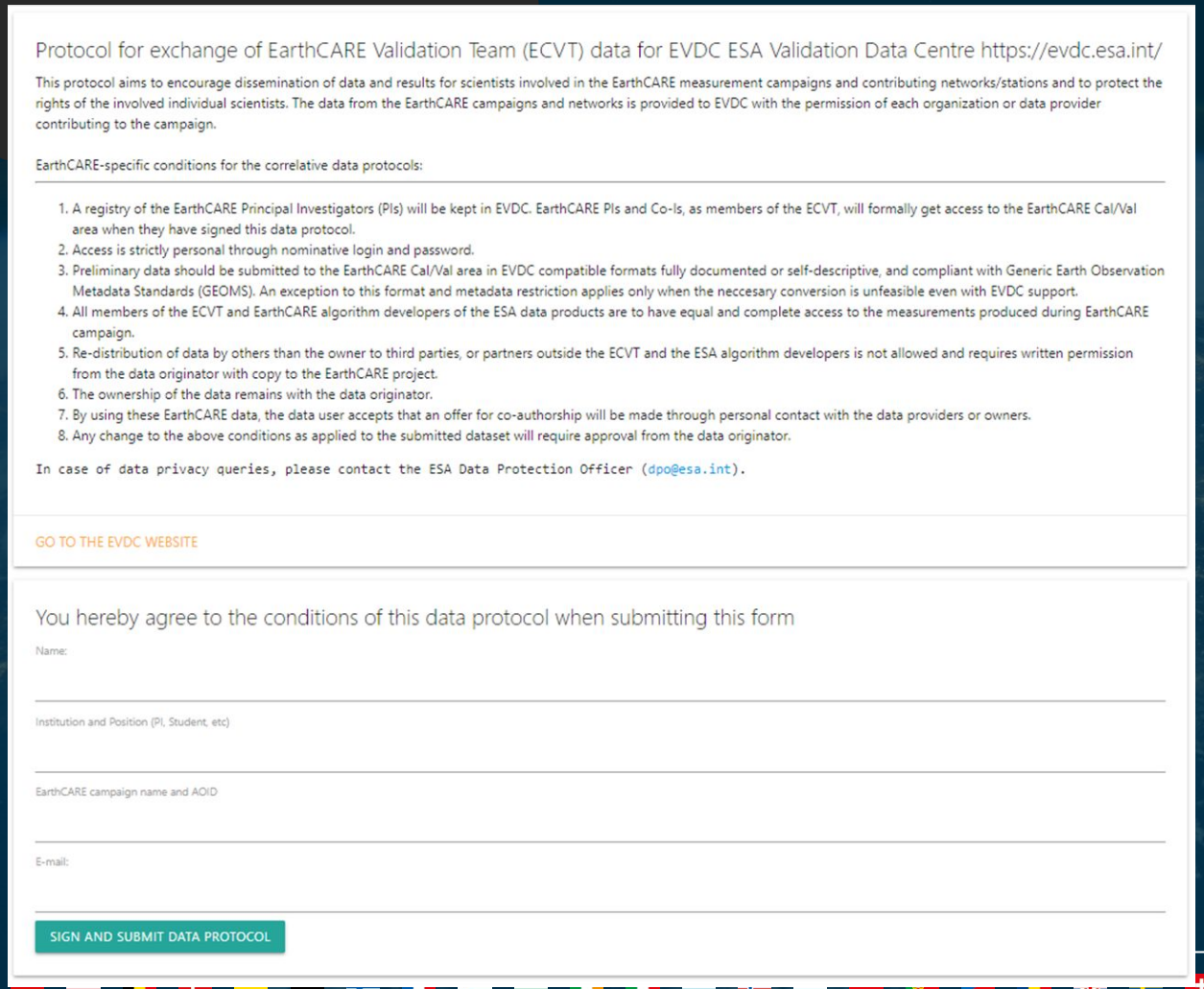
Encourage dissemination of data and results for scientists involved in measurement campaigns and contributing networks/stations, and to protect the rights of the involved individual scientists.

The EVDC data protocol - https://protocol.evdc.nilu.no/

The EarthCARE protocol - https://earthcare-protocol.evdc.nilu.no/

The JATAC data protocol - https://jatac-protocol.evdc.nilu.no/

In short: by sharing your data (RD, preliminary, final QC), you also get access to other groups data, but you can not distribute these outside the Cal/Val Campaign team (ECVT) or publish without permissions



Protocol for exchange of EarthCARE Validation Team (ECVT) data for EVDC ESA Validation Data Centre https://evdc.esa.int/

This protocol aims to encourage dissemination of data and results for scientists involved in the EarthCARE measurement campaigns and contributing networks/stations and to protect the rights of the involved individual scientists. The data from the EarthCARE campaigns and networks is provided to EVDC with the permission of each organization or data provider contributing to the campaign.

EarthCARE-specific conditions for the correlative data protocols:

1. A registry of the EarthCARE Principal Investigators (PIs) will be kept in EVDC. EarthCARE PIs and Co-Is, as members of the ECVT, will formally get access to the EarthCARE Cal/Val area when they have signed this data protocol.
2. Access is strictly personal through nominative login and password.
3. Preliminary data should be submitted to the EarthCARE Cal/Val area in EVDC compatible formats fully documented or self-descriptive, and compliant with Generic Earth Observation Metadata Standards (GEOMS). An exception to this format and metadata restriction applies only when the neccesary conversion is unfeasible even with EVDC support.
4. All members of the ECVT and EarthCARE algorithm developers of the ESA data products are to have equal and complete access to the measurements produced during EarthCARE campaign.
5. Re-distribution of data by others than the owner to third parties, or partners outside the ECVT and the ESA algorithm developers is not allowed and requires written permission from the data originator with copy to the EarthCARE project.
6. The ownership of the data remains with the data originator.
7. By using these EarthCARE data, the data user accepts that an offer for co-authorship will be made through personal contact with the data providers or owners.
8. Any change to the above conditions as applied to the submitted dataset will require approval from the data originator.

In case of data privacy queries, please contact the ESA Data Protection Officer (dpo@esa.int).

GO TO THE EVDC WEBSITE

You hereby agree to the conditions of this data protocol when submitting this form

Name:

Institution and Position (PI, Student, etc)

EarthCARE campaign name and AOID

E-mail:

SIGN AND SUBMIT DATA PROTOCOL

Digital signature

Personal account

Manual approval process

Information by e-mail from NADIR-team

□ Addressed in the Demo and the Q&A sessions later today

Data formatting

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

GEOMS format

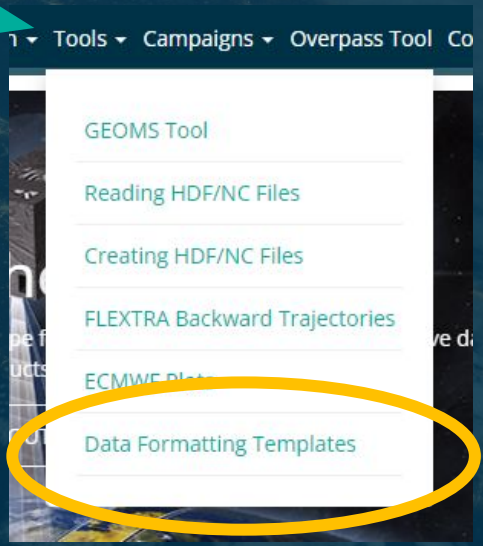
Data submitted to EVDC need to be formatted in the GEOMS (The Generic Earth Observation Metadata Standard) format

 special key-words in the header + HDF of NetCDF

Information, video and tutorials available under “Documentation”

EVDC separates between 3 modes of data formatting:

- Local data formatting *1)
- Supported data formatting *2)
- Data conversion by EVDC *3)



1) Local data formatting:

The Data Submitter (DS) is familiar with EVDC and GEOMS, and has resources/scripts/knowledge to format the data locally.

2) Supported data formatting:

DS has some knowledge and plans for local data formatting, but needs assistance from EVDC with setting up the scripts, finding the required template, format the data…

3) Data conversion by EVDC:

DS may, or may not be, familiar with GEOMS, but has no capacity to format the data locally.

Data is submitted to EVDC in a “fairly good” mode, and [conversion]2GEOMS is run inside the EVDC.

Addressed in the Demo later today.

Available templates:

https://evdc.esa.int/tools/data-formatting-templates/

GEOMS-TE-LIDAR-AEROSOL-005.csv 15.33 KiB

2	LATITUDE.INSTRUMENT	CONSTANT
2	LONGITUDE.INSTRUMENT	CONSTANT
2	ALTITUDE.INSTRUMENT	CONSTANT
2	DATETIME	DATETIME
2	DATETIME.START	DATETIME
2	DATETIME.STOP	DATETIME
2	INTEGRATION.TIME	DATETIME

GEOMS Data Formatting Templates

Data reporting templates are used as an additional guidance to file formatting for specific instr
similar instruments, e.g. a LIDAR, within a monitoring network report the same mandatory dat

To help you format your files, EVDC has set up an Online GEOMS File Creation Tool . At the bot
These example files might be helpful for data submitters learning how to format the files in GE

You may read more about GEOMS templates at the AVDC site.

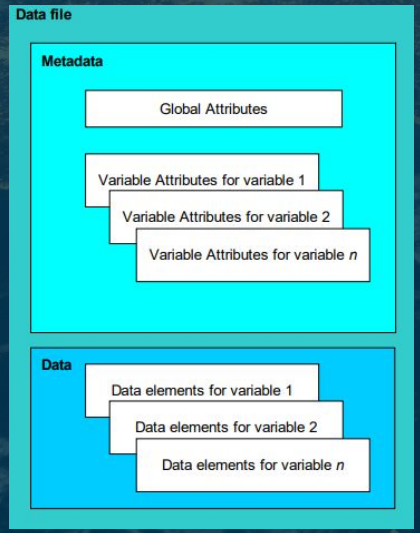
2011-10-03 GEOMS-TE-BOUY-001.csv
2020-06-15 GEOMS-TE-CLOUD-RADAR-001.csv
2018-05-28 GEOMS-TE-FTIR-002.csv
2021-06-03 GEOMS-TE-FTIR-003.csv
2020-09-01 GEOMS-TE-FTIR-COCCON-001.csv
2019-11-21 GEOMS-TE-FTIR-FRM4GHG-001.csv
2015-12-23 GEOMS-TE-FTIR-ISO-001.csv
2019-02-20 GEOMS-TE-FTIR-TCCON-005.csv
2016-07-21 GEOMS-TE-FTUV-003.csv
2019-11-21 GEOMS-TE-LHR-FRM4GHG-001.csv
2020-07-22 GEOMS-TE-LIDAR-AEROSOL-005.csv
2017-10-28 GEOMS-TE-LIDAR-H2O-005.csv
2017-10-28 GEOMS-TE-LIDAR-O3-005.csv
2017-10-28 GEOMS-TE-LIDAR-TEMPERATURE-005.csv
2014-02-18 GEOMS-TE-MWR-003.csv
2018-02-02 GEOMS-TE-MWR-WIND-001.csv
2021-10-21 GEOMS-TE-PANDORA-DIRECTSUN-GAS-003.csv
2016-12-01 GEOMS-TE-RO-001.csv
2020-02-28 GEOMS-TE-SODAR-001.csv
2013-07-19 GEOMS-TE-SONDE-002.csv
2022-02-14 GEOMS-TE-UVVIS-BREWER-TOTALCOL-001.csv
2018-04-26 GEOMS-TE-UVVIS-DOAS-DIRECTSUN-GAS-007.csv
2018-04-26 GEOMS-TE-UVVIS-DOAS-OFFAXIS-AEROSOL-007.csv
2018-04-25 GEOMS-TE-UVVIS-DOAS-OFFAXIS-GAS-007.csv
2018-04-25 GEOMS-TE-UVVIS-DOAS-ZENITH-GAS-007.csv

Available templates:

https://evdc.esa.int/tools/data-formatting-templates/

Two core structure elements of the metadata standard, The global attributes (GA) and the variable attributes (VA),

followed by the data itself.



GEOMS Data Formatting Templates

Data reporting templates are used as an additional guidance to file formatting for specific instr
similar instruments, e.g. a LIDAR, within a monitoring network report the same mandatory dat

To help you format your files, EVDC has set up an Online GEOMS File Creation Tool . At the bot
These example files might be helpful for data submitters learning how to format the files in GE

You may read more about GEOMS templates at the AVDC site.

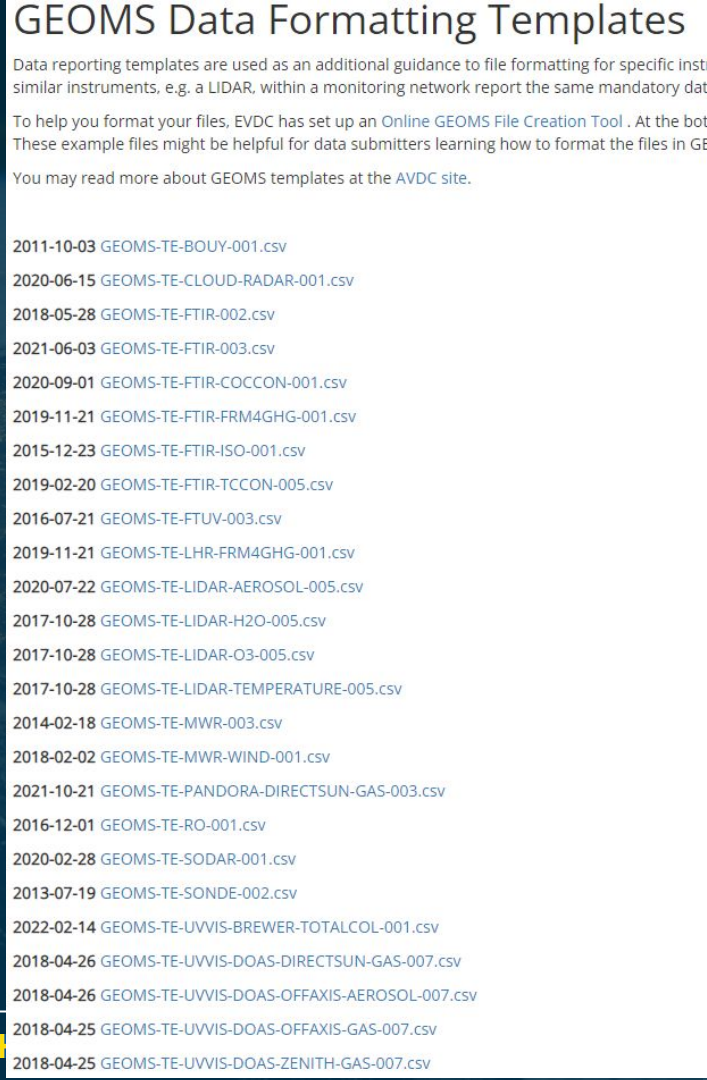
2011-10-03 GEOMS-TE-BOUY-001.csv
2020-06-15 GEOMS-TE-CLOUD-RADAR-001.csv
2018-05-28 GEOMS-TE-FTIR-002.csv
2021-06-03 GEOMS-TE-FTIR-003.csv
2020-09-01 GEOMS-TE-FTIR-COCCON-001.csv
2019-11-21 GEOMS-TE-FTIR-FRM4GHG-001.csv
2015-12-23 GEOMS-TE-FTIR-ISO-001.csv
2019-02-20 GEOMS-TE-FTIR-TCCON-005.csv
2016-07-21 GEOMS-TE-FTUV-003.csv
2019-11-21 GEOMS-TE-LHR-FRM4GHG-001.csv
2020-07-22 GEOMS-TE-LIDAR-AEROSOL-005.csv
2017-10-28 GEOMS-TE-LIDAR-H2O-005.csv
2017-10-28 GEOMS-TE-LIDAR-O3-005.csv
2017-10-28 GEOMS-TE-LIDAR-TEMPERATURE-005.csv
2014-02-18 GEOMS-TE-MWR-003.csv
2018-02-02 GEOMS-TE-MWR-WIND-001.csv
2021-10-21 GEOMS-TE-PANDORA-DIRECTSUN-GAS-003.csv
2016-12-01 GEOMS-TE-RO-001.csv
2020-02-28 GEOMS-TE-SODAR-001.csv
2013-07-19 GEOMS-TE-SONDE-002.csv
2022-02-14 GEOMS-TE-UVVIS-BREWER-TOTALCOL-001.csv
2018-04-26 GEOMS-TE-UVVIS-DOAS-DIRECTSUN-GAS-007.csv
2018-04-26 GEOMS-TE-UVVIS-DOAS-OFFAXIS-AEROSOL-007.csv
2018-04-25 GEOMS-TE-UVVIS-DOAS-OFFAXIS-GAS-007.csv
2018-04-25 GEOMS-TE-UVVIS-DOAS-ZENITH-GAS-007.csv

Available templates:

https://evdc.esa.int/tools/data-formatting-templates/

The *global attributes* entries describe the ownership of the data found in a given file (PI, DS, name, e-mail…), the type and identity of the instrument, information on the geolocation of the data, the field of research, and a list of the data variables included in the file.

The *variable attributes* are the specific metadata for a single variable (name, description… of the variable)



GEOMS Data Formatting Templates

Data reporting templates are used as an additional guidance to file formatting for specific instr
similar instruments, e.g. a LIDAR, within a monitoring network report the same mandatory dat

To help you format your files, EVDC has set up an Online GEOMS File Creation Tool . At the bot
These example files might be helpful for data submitters learning how to format the files in GE

You may read more about GEOMS templates at the AVDC site.

2011-10-03 GEOMS-TE-BOUY-001.csv
2020-06-15 GEOMS-TE-CLOUD-RADAR-001.csv
2018-05-28 GEOMS-TE-FTIR-002.csv
2021-06-03 GEOMS-TE-FTIR-003.csv
2020-09-01 GEOMS-TE-FTIR-COCCON-001.csv
2019-11-21 GEOMS-TE-FTIR-FRM4GHG-001.csv
2015-12-23 GEOMS-TE-FTIR-ISO-001.csv
2019-02-20 GEOMS-TE-FTIR-TCCON-005.csv
2016-07-21 GEOMS-TE-FTUV-003.csv
2019-11-21 GEOMS-TE-LHR-FRM4GHG-001.csv
2020-07-22 GEOMS-TE-LIDAR-AEROSOL-005.csv
2017-10-28 GEOMS-TE-LIDAR-H2O-005.csv
2017-10-28 GEOMS-TE-LIDAR-O3-005.csv
2017-10-28 GEOMS-TE-LIDAR-TEMPERATURE-005.csv
2014-02-18 GEOMS-TE-MWR-003.csv
2018-02-02 GEOMS-TE-MWR-WIND-001.csv
2021-10-21 GEOMS-TE-PANDORA-DIRECTSUN-GAS-003.csv
2016-12-01 GEOMS-TE-RO-001.csv
2020-02-28 GEOMS-TE-SODAR-001.csv
2013-07-19 GEOMS-TE-SONDE-002.csv
2022-02-14 GEOMS-TE-UVVIS-BREWER-TOTALCOL-001.csv
2018-04-26 GEOMS-TE-UVVIS-DOAS-DIRECTSUN-GAS-007.csv
2018-04-26 GEOMS-TE-UVVIS-DOAS-OFFAXIS-AEROSOL-007.csv
2018-04-25 GEOMS-TE-UVVIS-DOAS-OFFAXIS-GAS-007.csv
2018-04-25 GEOMS-TE-UVVIS-DOAS-ZENITH-GAS-007.csv

When the Cal/Val teams connect with the data center, they should look for a suitable template for their data and let EVDC how much help they need with the data conversion.

If there is no existing template, EVDC and the Cal/Val team or DS will work together to create a new one.

Process;

Draft template approval by GEOMS consortium (repr. EVDC, AVDC, NDACC and major networks/experts) Final template

GEOMS Data Formatting Templates

Data reporting templates are used as an additional guidance to file formatting for specific instr
similar instruments, e.g. a LIDAR, within a monitoring network report the same mandatory dat

To help you format your files, EVDC has set up an Online GEOMS File Creation Tool . At the bot
These example files might be helpful for data submitters learning how to format the files in GE

You may read more about GEOMS templates at the AVDC site.

2011-10-03 GEOMS-TE-BOUY-001.csv
2020-06-15 GEOMS-TE-CLOUD-RADAR-001.csv
2018-05-28 GEOMS-TE-FTIR-002.csv
2021-06-03 GEOMS-TE-FTIR-003.csv
2020-09-01 GEOMS-TE-FTIR-COCCON-001.csv
2019-11-21 GEOMS-TE-FTIR-FRM4GHG-001.csv
2015-12-23 GEOMS-TE-FTIR-ISO-001.csv
2019-02-20 GEOMS-TE-FTIR-TCCON-005.csv
2016-07-21 GEOMS-TE-FTUV-003.csv
2019-11-21 GEOMS-TE-LHR-FRM4GHG-001.csv
2020-07-22 GEOMS-TE-LIDAR-AEROSOL-005.csv
2017-10-28 GEOMS-TE-LIDAR-H2O-005.csv
2017-10-28 GEOMS-TE-LIDAR-O3-005.csv
2017-10-28 GEOMS-TE-LIDAR-TEMPERATURE-005.csv
2014-02-18 GEOMS-TE-MWR-003.csv
2018-02-02 GEOMS-TE-MWR-WIND-001.csv
2021-10-21 GEOMS-TE-PANDORA-DIRECTSUN-GAS-003.csv
2016-12-01 GEOMS-TE-RO-001.csv
2020-02-28 GEOMS-TE-SODAR-001.csv
2013-07-19 GEOMS-TE-SONDE-002.csv
2022-02-14 GEOMS-TE-UVVIS-BREWER-TOTALCOL-001.csv
2018-04-26 GEOMS-TE-UVVIS-DOAS-DIRECTSUN-GAS-007.csv
2018-04-26 GEOMS-TE-UVVIS-DOAS-OFFAXIS-AEROSOL-007.csv
2018-04-25 GEOMS-TE-UVVIS-DOAS-OFFAXIS-GAS-007.csv
2018-04-25 GEOMS-TE-UVVIS-DOAS-ZENITH-GAS-007.csv

Tools for creating GEOMS files, and for metadata registration:

*Specially developed **GEOMS file formatting software tool** as IDL scripts, or online*

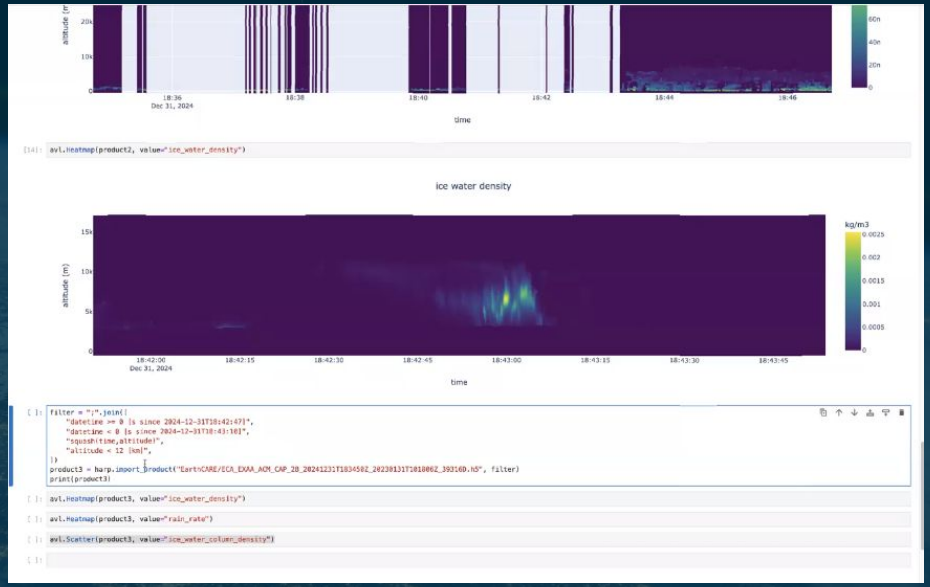
https://evdc.esa.int/tools/creating-hdf-files/

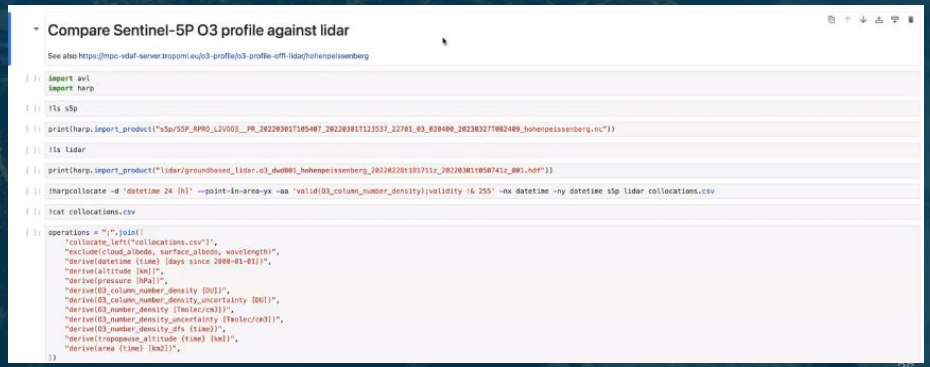
using the idlcr8hdf program, an IDL software that is delivered both as a .pro-file for users with an IDL liense, and as a .sav-file for those without a license. The program takes two ASCII files as input, one data file and one metadata file, and formats an GEOMS compatible file (HDF4/5 or NetCDF).

https://geoms-tool.nilu.no/

same as above, but online “click step-by-step” in browser.
Addressed in the Demo later today.

GEOMS files are HARP compatible
HARP demonstrated June 26th, by Sander Niemeijer, S&T





DOI:

A Digital Object Identifier is a unique and permanent identifier for a digital object, such as a research paper, dataset, or software.

The purpose of a DOI is to provide a stable, long-lasting link to the digital object, allowing users to easily locate and access it.

DOIs are managed by trusted registration agencies, such as CrossRef, DataCite, or mEDRA, and they resolve to a landing page that provides metadata and access to the object being identified.

Having a DOI for your publication helps to ensure its long-term accessibility, visibility, and impact, making it easier for others to find, use, and build upon your work.

A field for DOI is included in the GEOMS metadata

Best practices for coining DOIs (Digital Object Identifiers) include:

1. Assign unique DOIs: Each DOI must be unique and permanent, and should not change over time.
2. Use a trusted DOI registration agency such as CrossRef, DataCite, or mEDRA.
3. Resolve to a landing page that provides metadata and access to the full-text or object being identified.
4. Provide complete and accurate metadata, e.g. title, authors, publication date, and persistent URL.
5. Use a consistent format: i.e. a consistent format for coining DOIs, such as the "10.xxxx/yyyyyyyy" format recommended by the International DOI Foundation.
6. Regularly update and maintain the DOI record to ensure that it continues to resolve to the correct landing page.

Examples of DOIs (Digital Object Identifiers):

- 10.1038/nature14539
- 10.1016/j.cell.2013.11.049
- 10.1371/journal.pone.0127752
- 10.1186/s13643-020-01356-9

DOIs typically consists of a prefix (e.g. "10.xxxx"), followed by a unique identifier assigned by the registration agency (e.g. "nature14539," "journal.pone.0127752").

The prefix and identifier together form the complete DOI, which resolves to a ***landing page*** that provides metadata and access to the digital object being identified.

NILU, on behalf of EVDC, may issue a DOI on datasets or other data products related to ESA Cal/Val.

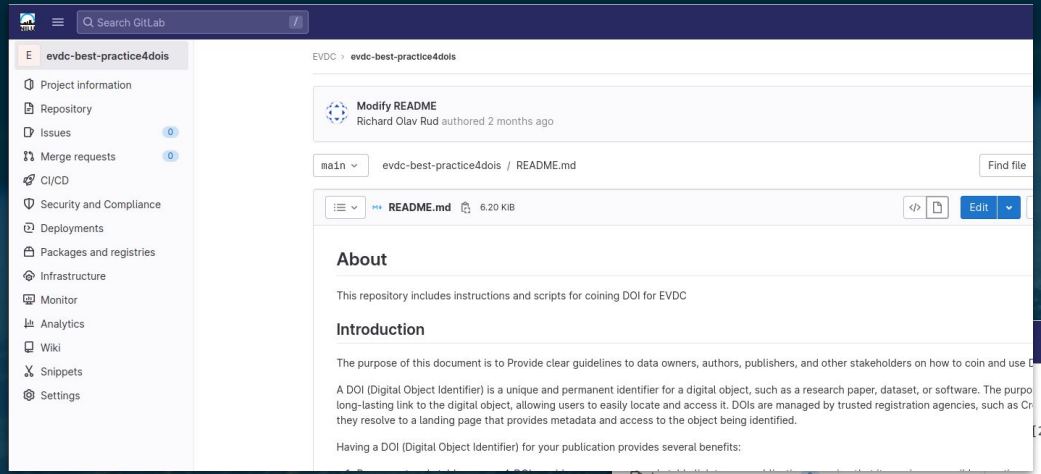
EVDC offers user support related to the coining of DOIs. This involves giving the various frameworks access to an EVDC API for generating landing pages, issuing new repositories and giving access for self coining of DOIs.

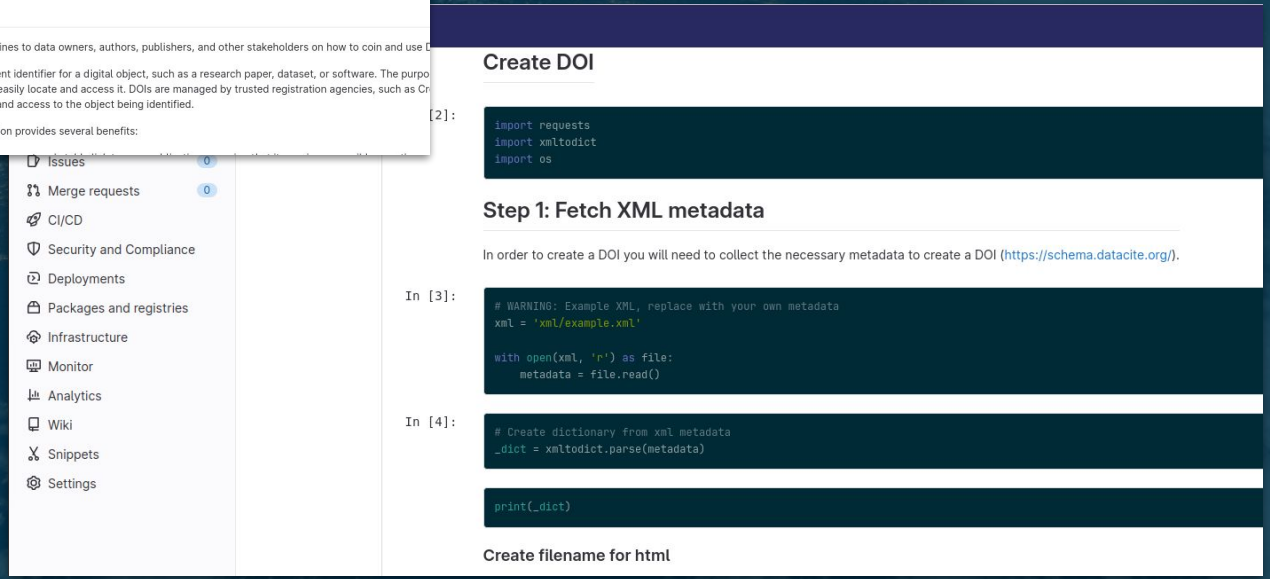
In addition EVDC provides guidelines for the distribution of DOIs, recommendations on granularity and a list of recommended metadata to include when creating landing pages and coining DOIs.

When a DOI is issued, there are three things to consider:

1) Report metadata following a standard XML format (see what's required on next slide).
2) The xml will be used to generate the landing-page as well as coining of the DOI through the datacite API.
3) The link from the landing-page to the data download will need to be provided in the script.

The "data resource" will then be available through the presentation web page on a EVDC server, hereunder a private URL to your landing page as a sub page of https://evdc.esa.int


Search GitLab
evdc-best-practice4dois
Project information
Repository
Issues 0
Merge requests 0
CI/CD
Security and Compliance
Deployments
Packages and registries
Infrastructure
Monitor
Analytics
Wiki
Snippets
Settings
EVDC › evdc-best-practice4dois
Modify README
Richard Olav Rud authored 2 months ago
main
evdc-best-practice4dois / README.md
Find file
README.md 6.20 KiB
Edit
About
This repository includes instructions and scripts for coining DOI for EVDC
Introduction
The purpose of this document is to Provide clear guidelines to data owners, authors, publishers, and other stakeholders on how to coin and use
A DOI (Digital Object Identifier) is a unique and permanent identifier for a digital object, such as a research paper, dataset, or software. The purpo
long-lasting link to the digital object, allowing users to easily locate and access it. DOIs are managed by trusted registration agencies, such as Cr
they resolve to a landing page that provides metadata and access to the object being identified.
Having a DOI (Digital Object Identifier) for your publication provides several benefits:


Issues 0
Merge requests 0
CI/CD
Security and Compliance
Deployments
Packages and registries
Infrastructure
Monitor
Analytics
Wiki
Snippets
Settings
Create DOI
[2]:
import requests
import xmltodict
import os
Step 1: Fetch XML metadata
In order to create a DOI you will need to collect the necessary metadata to create a DOI (https://schema.datacite.org/).
In [3]:
# WARNING: Example XML, replace with your own metadata
xml = 'xml/example.xml'
with open(xml, 'r') as file:
metadata = file.read()
In [4]:
# Create dictionary from xml metadata
_dict = xmltodict.parse(metadata)
print(_dict)
Create filename for html

XML metadata and landing pages:

· Name of the creator(s) of the dataset and affiliation
· Title
· Publication year
· Subject (e.g. “Atmospheric Science”)
· Contact person(s)
· Date of collection
· Date of creation
· Size (only if its a dataset, supply size of dataset in megabytes)
· Format (text/plain, netCDF, Ascii etc.)
· Language
· Rights (Any rights information for this resource, licensing, copyright etc.)
· Resource type (should be “Dataset” in most cases)
· Description(s) Description types: Abstract, Methods, SeriesInformation, TableOfContents, TechnicalInfo, Other)
· Funder name(s)
· GeoLocation of measuring station(s)

Supplying information for the landing page:

The landing page is not so strict in terms of content and shape, but should include a description of:

· Title
· Image (plot etc.) that describes the dataset, not mandatory but preferable.
· Data policy
· Description of data file(s), including contact person for the specific dataset/subset of the dataset
· Acknowledgments
· Citation (How to cite the dataset)
· Contact

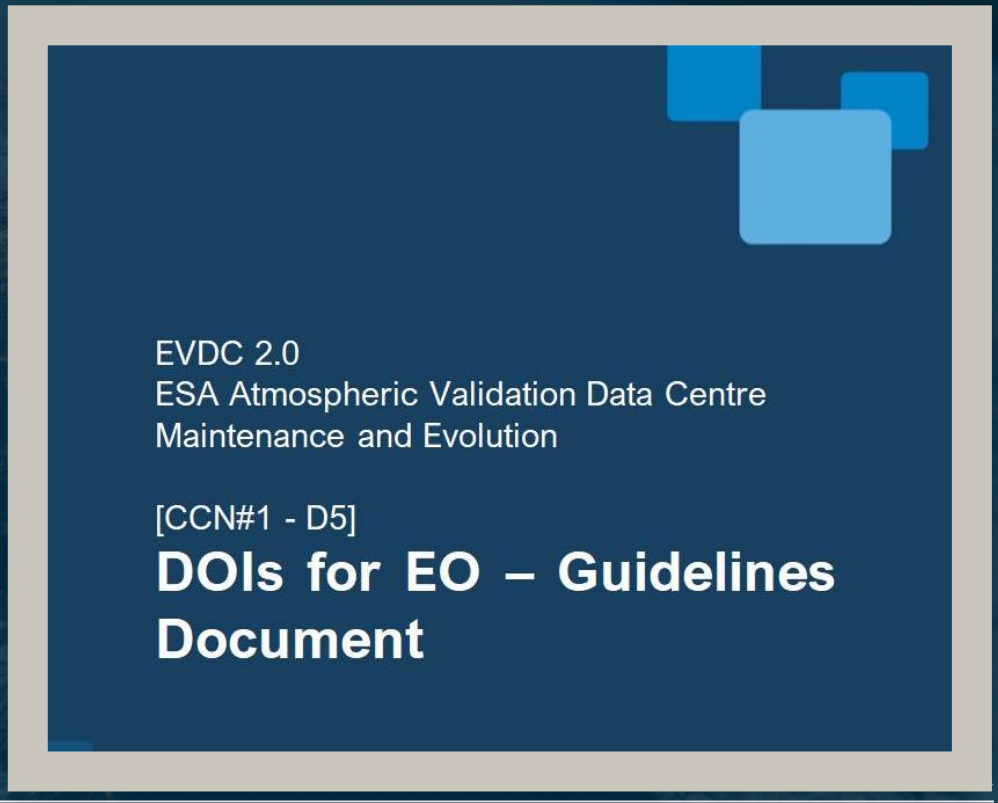
Step-by-step:

Establish contact with the Data Centre by sending an e-mail to nadirteam@nilu.no

Import XML to scripts, and publish the landing-page via the API.

Utilize landing-page url together with XML metadata to coin the DOI through the DataCite API.

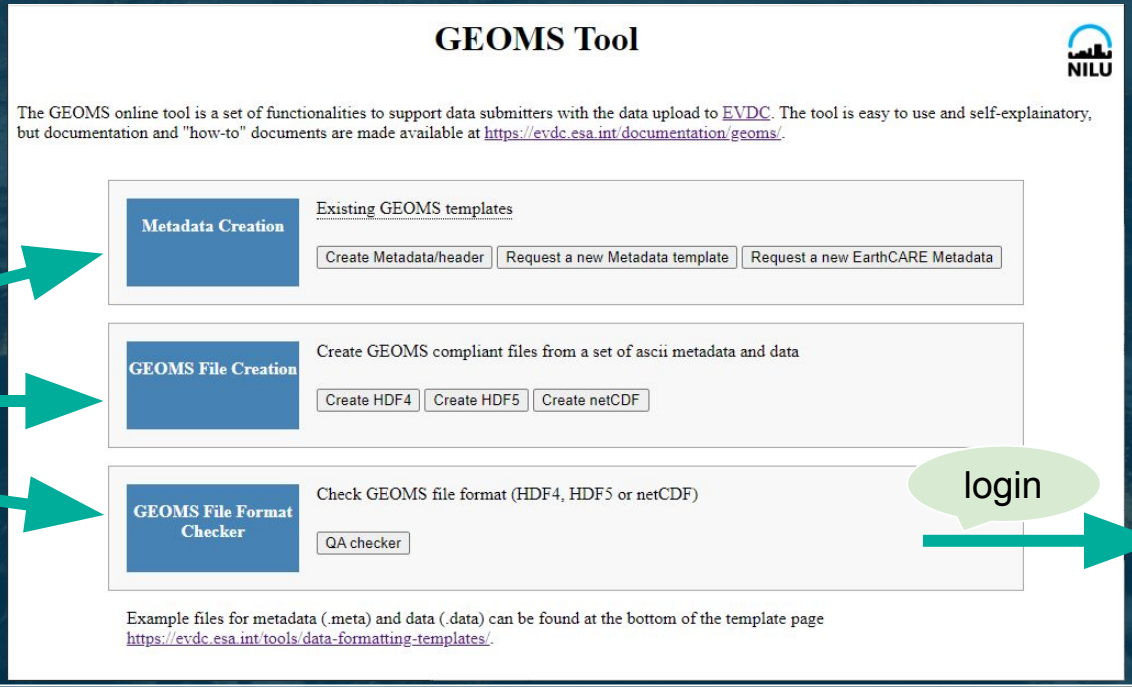
The DOI is ready and can be referenced. The DOI will point to the landing-page and the landing-page will contain the link to the dataset in EVDC.



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

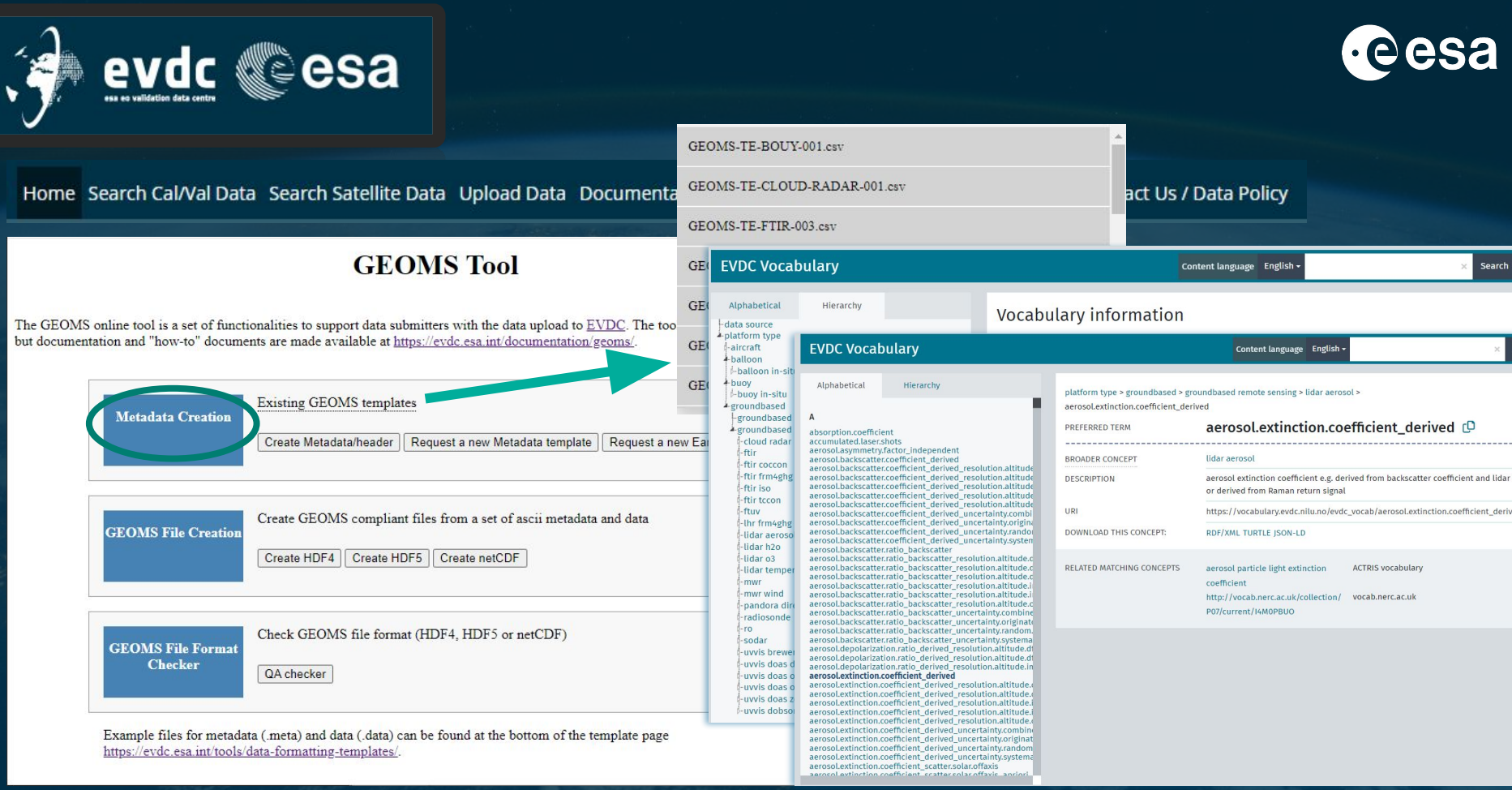
GEOMS File (HDF, netCDF)
- metadata
- data

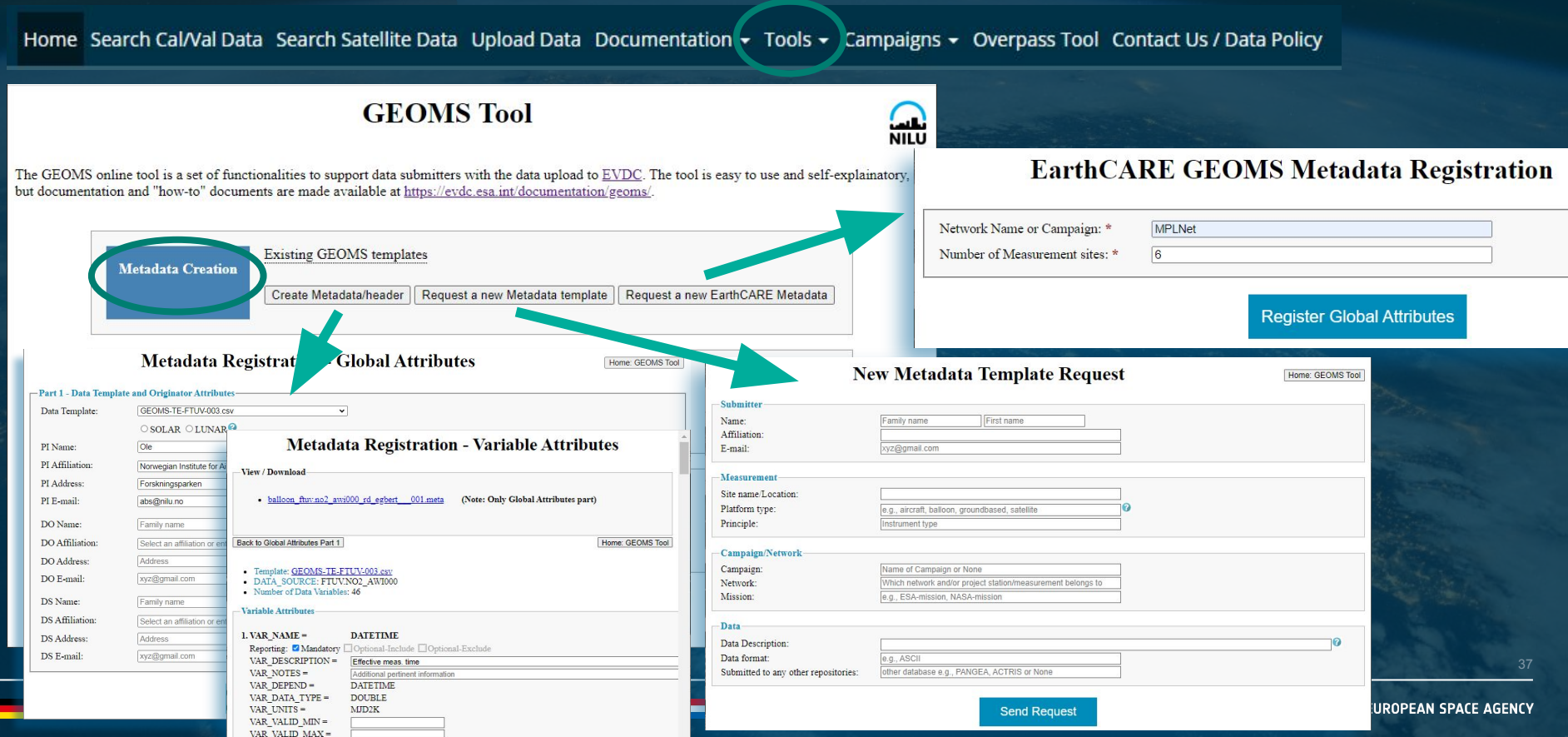
GEOMS Tool functionalities
- .data
- .data + .meta
- GEOMS file



login

EVDC Database

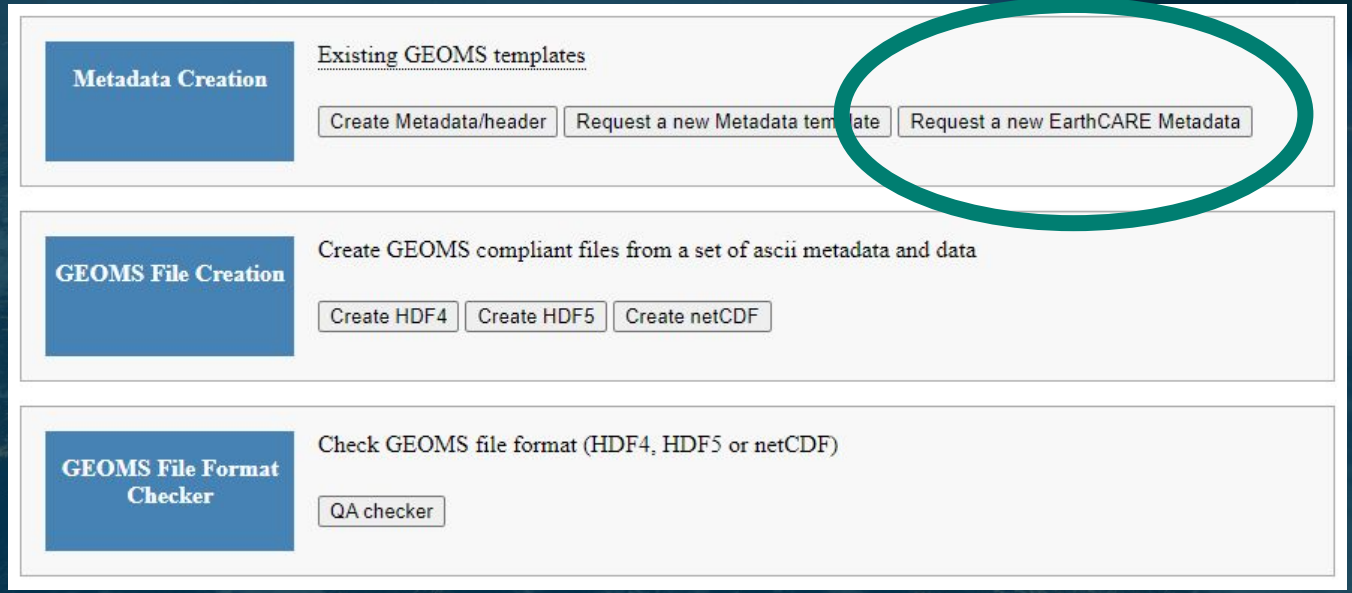

evdc
esa eo validation data centre
esa
Home
Search Cal/Val Data
Search Satellite Data
Upload Data
Documenta
act Us / Data Policy
GEOMS-TE-BOUY-001.csv
GEOMS-TE-CLOUD-RADAR-001.csv
GEOMS-TE-FTIR-003.csv
GEOMS Tool
The GEOMS online tool is a set of functionalities to support data submitters with the data upload to EVDC. The too
but documentation and "how-to" documents are made available at https://evdc.esa.int/documentation/geoms/.
Metadata Creation
Existing GEOMS templates
Create Metadata/header
Request a new Metadata template
GEOMS File Creation
Create GEOMS compliant files from a set of ascii metadata and data
Create HDF4
Create HDF5
Create netCDF
GEOMS File Format Checker
Check GEOMS file format (HDF4, HDF5 or netCDF)
QA checker
Example files for metadata (.meta) and data (.data) can be found at the bottom of the template page
https://evdc.esa.int/tools/data-formatting-templates/.
EVDC Vocabulary
Content language
English
Search
Alphabetical
Hierarchy
Vocabulary information
data source
platform type
aircraft
balloon
buoy
groundbased
lidar aerosol
EVDC Vocabulary
Content language
English
Alphabetical
Hierarchy
platform type > groundbased > groundbased remote sensing > lidar aerosol >
aerosol.extinction.coefficient_derived
PREFERRED TERM
aerosol.extinction.coefficient_derived
BROADER CONCEPT
lidar aerosol
DESCRIPTION
aerosol extinction coefficient e.g. derived from backscatter coefficient and lidar ratio
or derived from Raman return signal
URI
https://vocabulary.evdc.nilu.no/evdc_vocab/aerosol.extinction.coefficient_derived
DOWNLOAD THIS CONCEPT:
RDF/XML TURTLE JSON-LD
RELATED MATCHING CONCEPTS
aerosol particle light extinction coefficient
ACTRIS vocabulary
http://vocab.nerc.ac.uk/collection/P07/current/I4M0PBUO
vocab.nerc.ac.uk


Home
Search Cal/Val Data
Search Satellite Data
Upload Data
Documentation
Tools
Campaigns
Overpass Tool
Contact Us / Data Policy
GEOMS Tool
NILU
The GEOMS online tool is a set of functionalities to support data submitters with the data upload to EVDC. The tool is easy to use and self-explainatory, but documentation and "how-to" documents are made available at https://evdc.esa.int/documentation/geoms/.
Metadata Creation
Existing GEOMS templates
Create Metadata/header
Request a new Metadata template
Request a new EarthCARE Metadata
EarthCARE GEOMS Metadata Registration
Network Name or Campaign: *
MPLNet
Number of Measurement sites: *
6
Register Global Attributes
Metadata Registration - Global Attributes
Home: GEOMS Tool
Part 1 - Data Template and Originator Attributes
Data Template:
GEOMS-TE-FTUV-003.csv
SOLAR
LUNAR
PI Name:
PI Affiliation:
PI Address:
PI E-mail:
DO Name:
DO Affiliation:
DO Address:
DO E-mail:
DS Name:
DS Affiliation:
DS Address:
DS E-mail:
Metadata Registration - Variable Attributes
View / Download
balloon_ftuv:no2_awi000_rd_egbert___001.meta
(Note: Only Global Attributes part)
Back to Global Attributes Part 1
Home: GEOMS Tool
Template: GEOMS-TE-FTUV-003.csv
DATA_SOURCE: FTUV:NO2_AWI000
Number of Data Variables: 46
Variable Attributes
1. VAR_NAME = DATETIME
Reporting: Mandatory Optional-Include Optional-Exclude
VAR_DESCRIPTION = Effective meas. time
VAR_NOTES = Additional pertinent information
VAR_DEPEND = DATETIME
VAR_DATA_TYPE = DOUBLE
VAR_UNITS = MJD2K
VAR_VALID_MIN =
VAR_VALID_MAX =
New Metadata Template Request
Home: GEOMS Tool
Submitter
Name:
Family name
First name
Affiliation:
E-mail:
xyz@gmail.com
Measurement
Site name/Location:
Platform type:
e.g., aircraft, balloon, groundbased, satellite
Principle:
Instrument type
Campaign/Network
Campaign:
Name of Campaign or None
Network:
Which network and/or project station/measurement belongs to
Mission:
e.g., ESA-mission, NASA-mission
Data
Data Description:
Data format:
e.g., ASCII
Submitted to any other repositories:
other database e.g., PANGEA, ACTRIS or None
Send Request

Ref. point 3) on earlier slide;

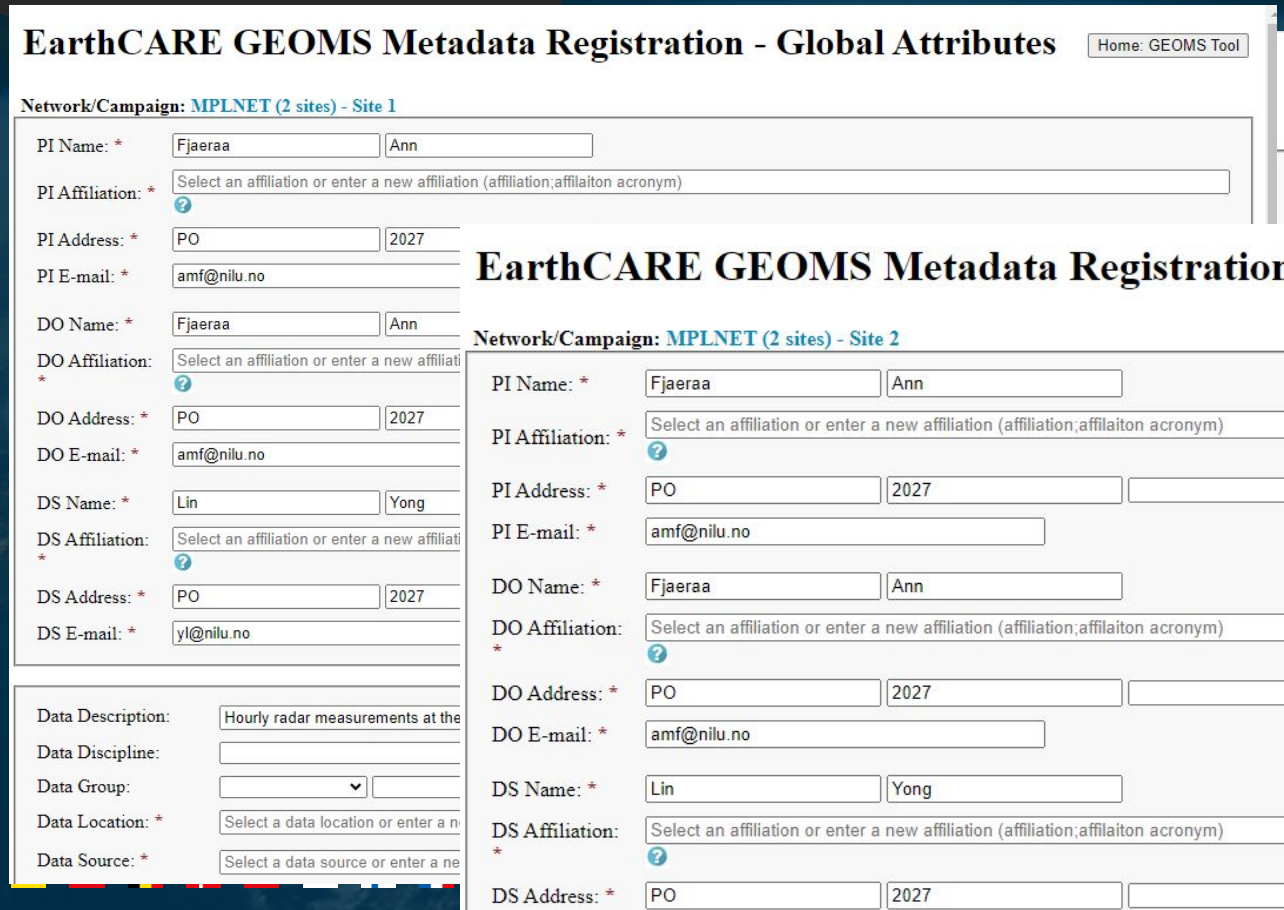
Support for users that request central data conversion from EVDC [template]2GEOMS

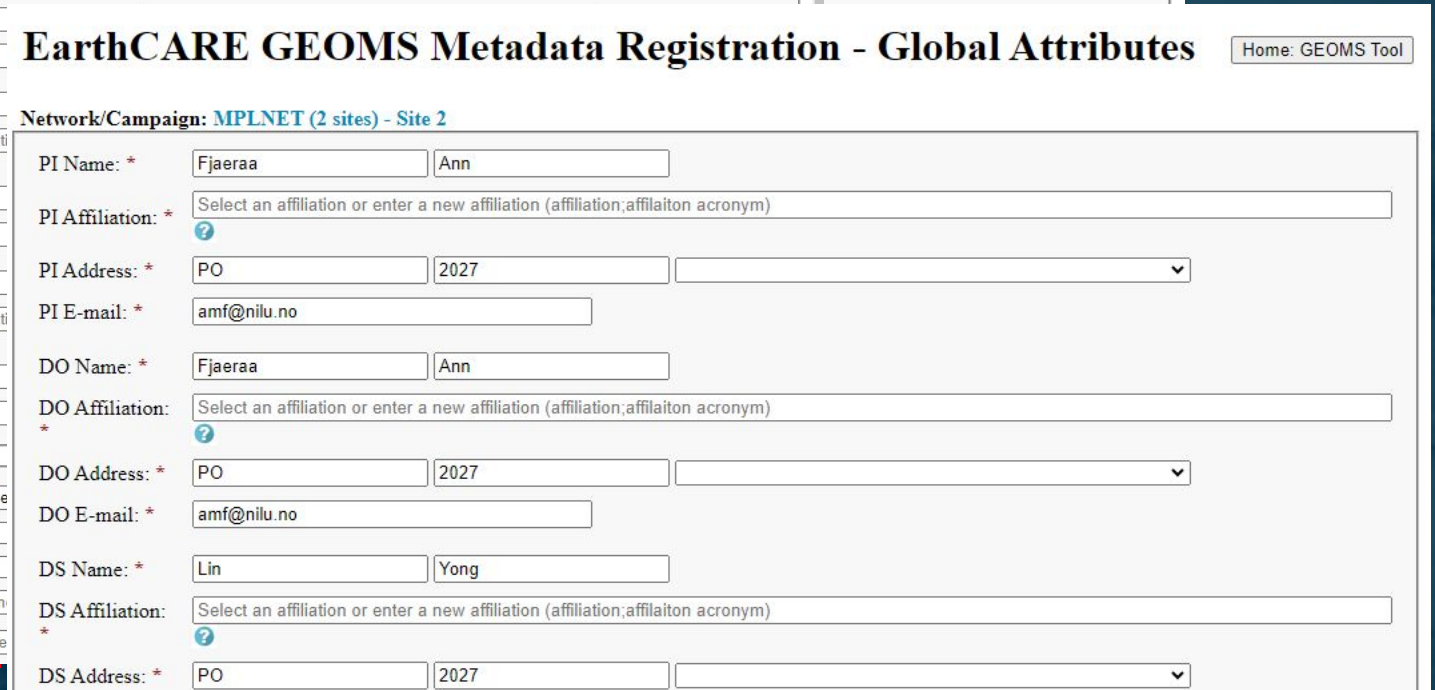
(often preliminary) data unformatted, ascii, txt, csv

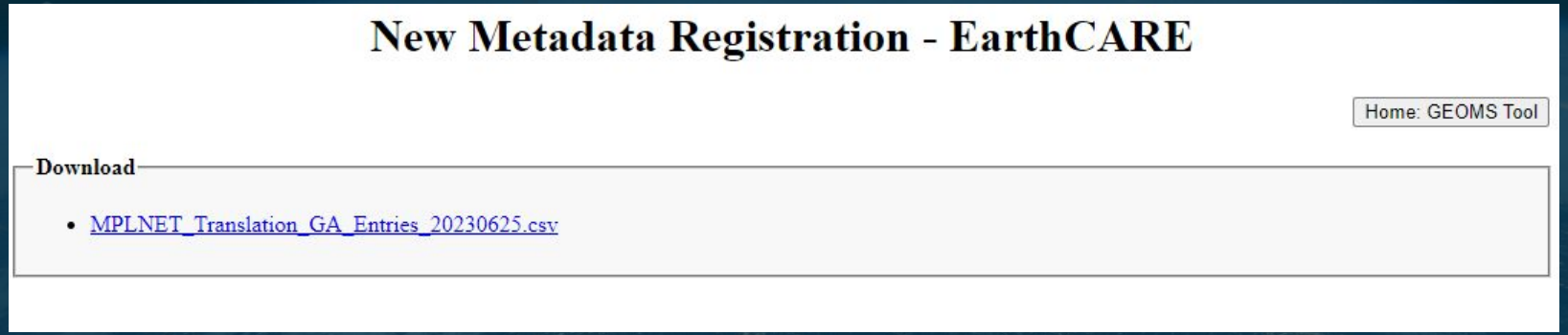


Cal/Val team and/or DS have to provide some essential information to EVDC.

Custom built for the ECVT.


EarthCARE GEOMS Metadata Registration - Global Attributes
Home: GEOMS Tool
Network/Campaign: MPLNET (2 sites) - Site 1
PI Name: * Fjaeraa Ann
PI Affiliation: * Select an affiliation or enter a new affiliation (affiliation;affilaiton acronym)
PI Address: * PO 2027
PI E-mail: * amf@nilu.no
DO Name: * Fjaeraa Ann
DO Affiliation: *
DO Address: * PO 2027
DO E-mail: * amf@nilu.no
DS Name: * Lin Yong
DS Affiliation: *
DS Address: * PO 2027
DS E-mail: * yl@nilu.no
Data Description: Hourly radar measurements at the
Data Discipline:
Data Group:
Data Location: * Select a data location or enter a n
Data Source: * Select a data source or enter a ne


EarthCARE GEOMS Metadata Registration - Global Attributes
Home: GEOMS Tool
Network/Campaign: MPLNET (2 sites) - Site 2
PI Name: * Fjaeraa Ann
PI Affiliation: * Select an affiliation or enter a new affiliation (affiliation;affilaiton acronym)
PI Address: * PO 2027
PI E-mail: * amf@nilu.no
DO Name: * Fjaeraa Ann
DO Affiliation: * Select an affiliation or enter a new affiliation (affiliation;affilaiton acronym)
DO Address: * PO 2027
DO E-mail: * amf@nilu.no
DS Name: * Lin Yong
DS Affiliation: * Select an affiliation or enter a new affiliation (affiliation;affilaiton acronym)
DS Address: * PO 2027



Translation file → GEOMS file

Demo after the presentation

“Behind the scenes”

The backbone of EVDC is a unix disc system

All routines, programs and files are accessible and available via ssh and sftp.

Common system in use for the Cal/Val teams.

With the personal user account, an EVDC user has access to machines

login.nilu.no via ssh

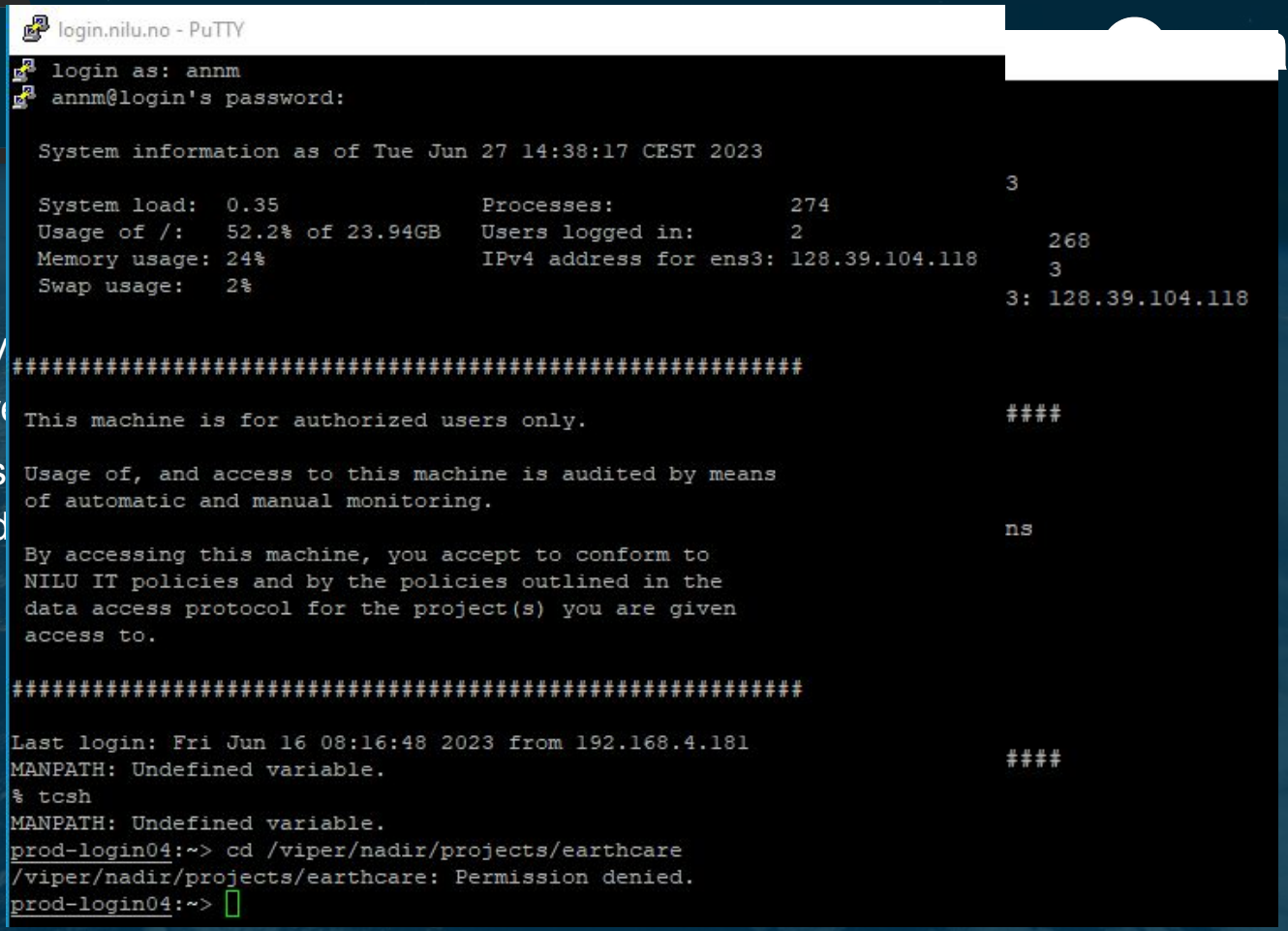
upload.nilu.no and download.nilu.no via sftp

evdc esa
esa eo validation data centre

"Behind the scenes"

For EarthCARE and the ECV
/viper/nadir/projects/earthcar

Hereunder, in sub-directories
both preliminary, unformatted

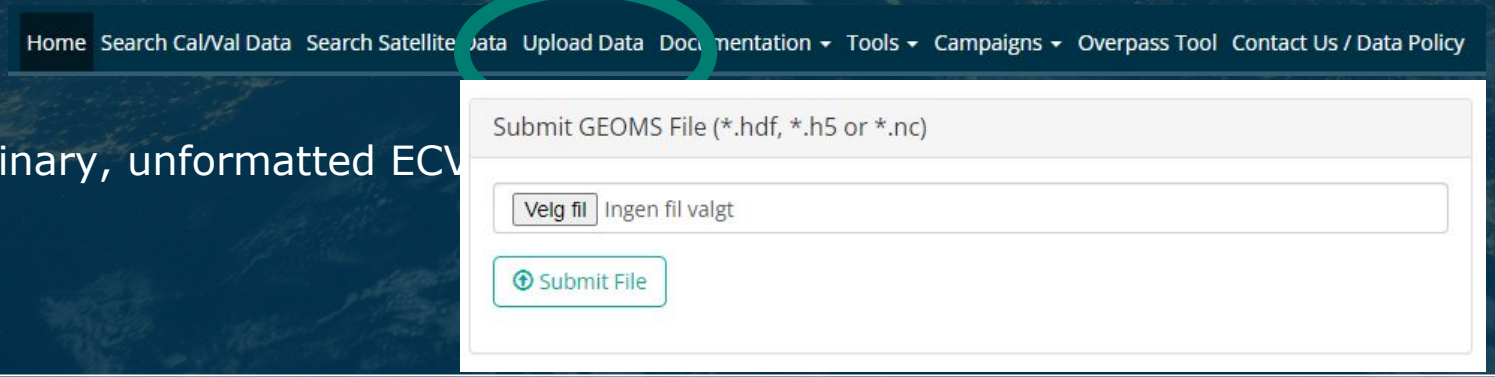


Data Upload:

Establish contact with the Data Centre to retrieve personal user credentials. Only registered users are allowed to upload data.

Final data:

1) use web upload



Preliminary, unformatted ECV

Data Upload:

Final data:

1) use web upload
2) use sftp upload: sftp to *upload.nilu.no* folder */viper/nadir/evdc/incoming*

Preliminary, unformatted ECVT data (AOID data):

use sftp upload sftp to *upload.nilu.no* folder */viper/nadir/projects/earthcare/**

** Information on the folder structure to be sent out by the nadirteam*

Introduction to EVDC as Cal/Val infrastructure	20
User accounts, data formatting, data submission	40
Demo	**20**
Q&A/discussions	**40**