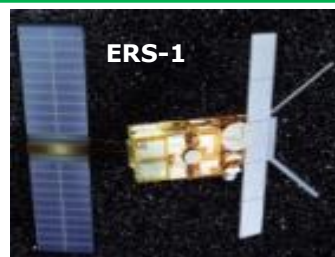


ESA EO Data Access and Users Services (non Copernicus)

Véronique Amans, Silvia Briscese, Enrica Cocco

30/09/2019

Which are the available data? (1/3)



ESA Heritage Missions

large archives of completed missions

Which are the available data? (2/3)

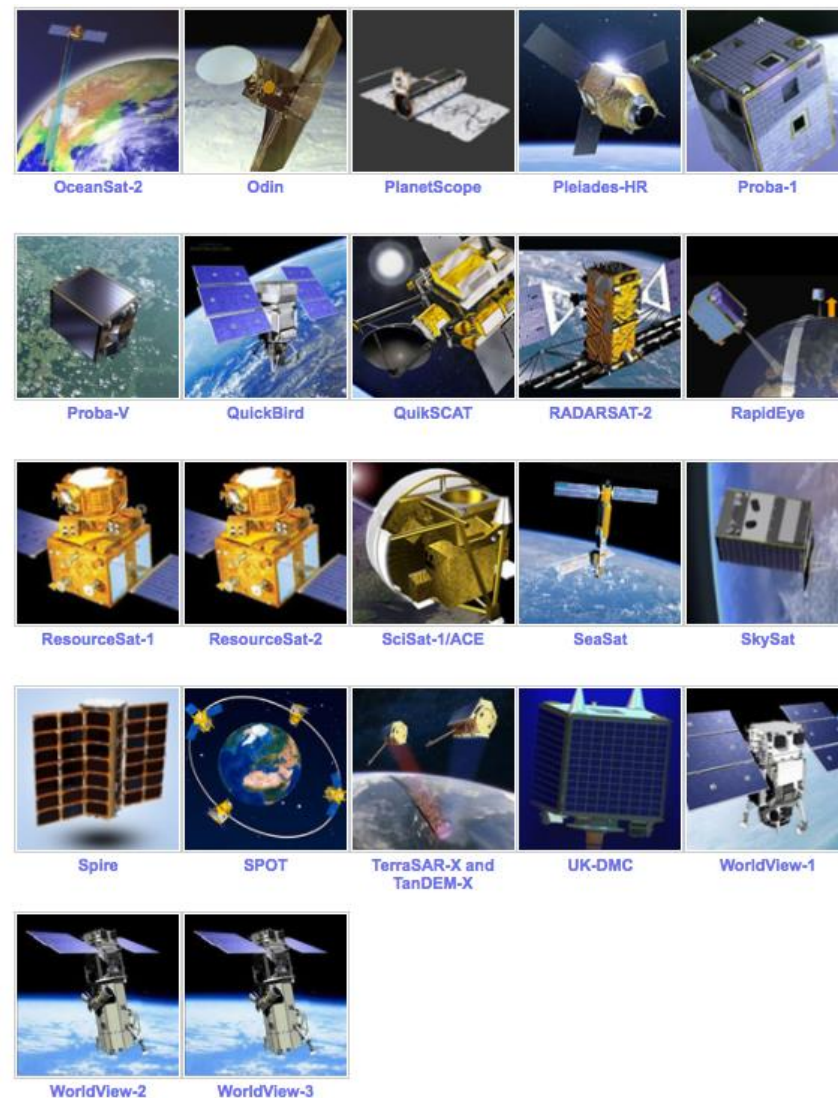
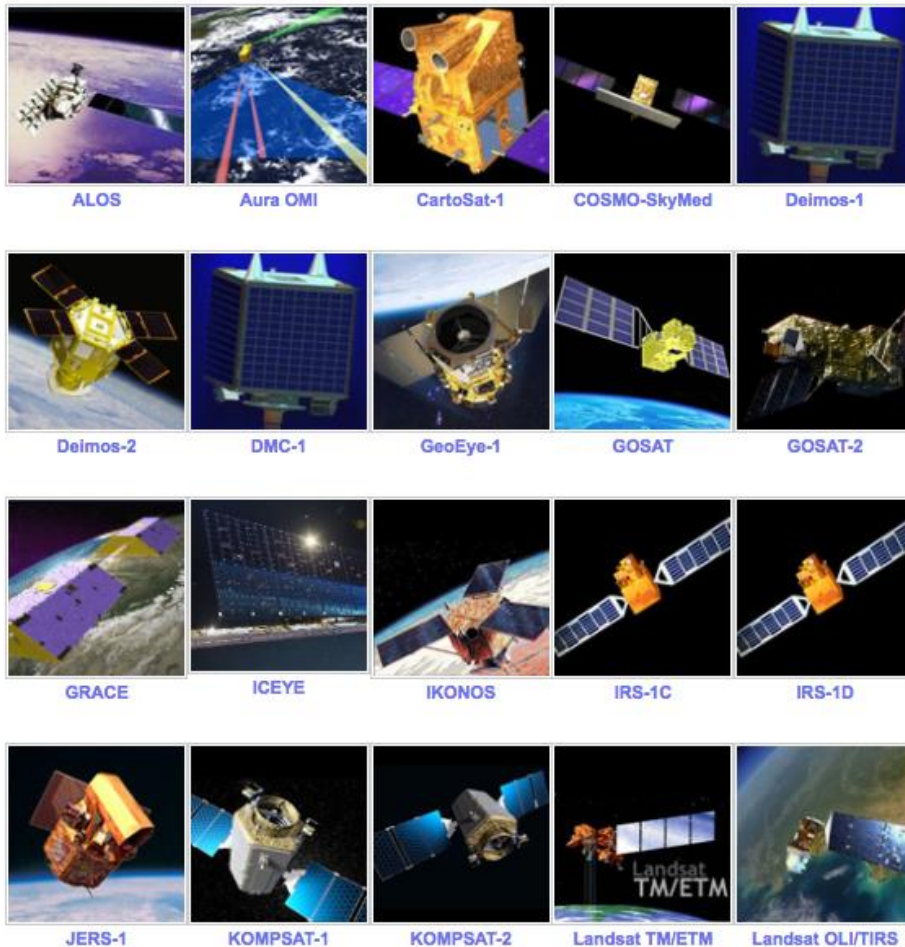
Science: Earth Explorers



GOC, SMOS, CRYOSAT, SWARM, AEOLUS, EARTHCARE, FLEX, BIOMASS. Credits: Airbus, FLEX, Credits: Airbus, FLEX

Which are the available data? (3/3)

- Third Party Missions



Data access conditions

Free and open data

For some Earth Explorers, complete open access, no registration needed (but implicit acceptance of the ESA Terms and Conditions)

For most data, available on-line

- User registration including user acceptance of **ESA Terms & Conditions** (on-line)
- Immediate on-line access to the dataset


Constraints for some datasets

For data requiring processing, or from external data providers (Third Party Missions)


- Free of charge
- Limitations related to users country of residence, download quotas, approval from data provider
- User registration and acceptance of the **ESA Terms & Conditions** (on-line)
- Service request or project proposal to be approved

Earth online: the entry point to access ESA EO data and services



**Earth Online**

[Login My Earthnet](#) [Register](#)

Google Custom Search 

Need Help? [Contact here](#) European Space Agency

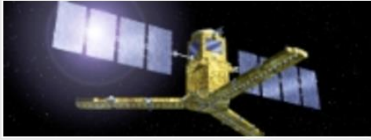
[Missions](#) [Earth Topics](#) [Data Access](#) [PI Community](#) [Explore more...](#)

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[Browse Data Products](#)
[How to access ESA Data](#)
[Data Product News](#)

How to Access EO Data




- Access Data Here**
Full details of earth observation products available for each satellite mission

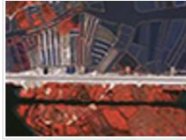
[Read more](#)



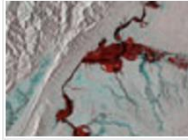
- Earth Observation data distributed by ESA**



- Apply for data as a researcher**



- How to access Copernicus data**



- Access to Sentinel Science Hub**

What's New?




- A year trapped in Arctic ice for climate science
- Vake | Catch wins 2019 Space App Camp
- A new satellite to understand how Earth is losing its cool
- Harnessing artificial intelligence for climate science
- New version of GOSAT-2 data released
- Using a data cube to assess changes in the Earth system
- 2019 Space App Camp begins
- Φ-week 2019 highlights
- Winning bootcamp ideas at Φ-week

Open Opportunities for Researchers

Featured Story

- A new satellite to understand how Earth is losing its cool

EO Data Quality



Help to browse through available data

<https://earth.esa.int/web/guest/data-access>

- Browse data by Earth Topics



Agriculture



Atmosphere



Land



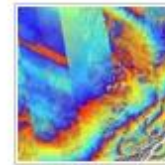
Natural Disasters



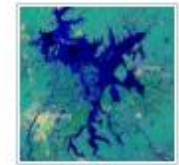
Ocean and Coast



Snow and Ice

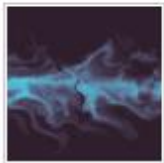


Solid Earth

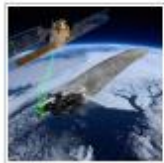


Water

- Browse data by instrument type



Atmospheric



Gravimetry



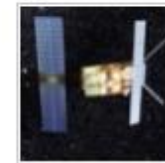
Hi Res. Optical
Multispectral



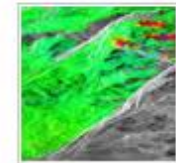
Low Res. Radiometry



Orbit Parameters

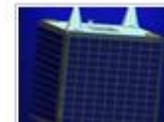
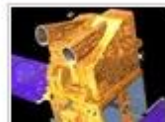
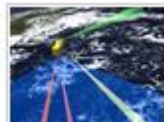


Radar Altimetry



Radar Imagery

- Browse data by mission

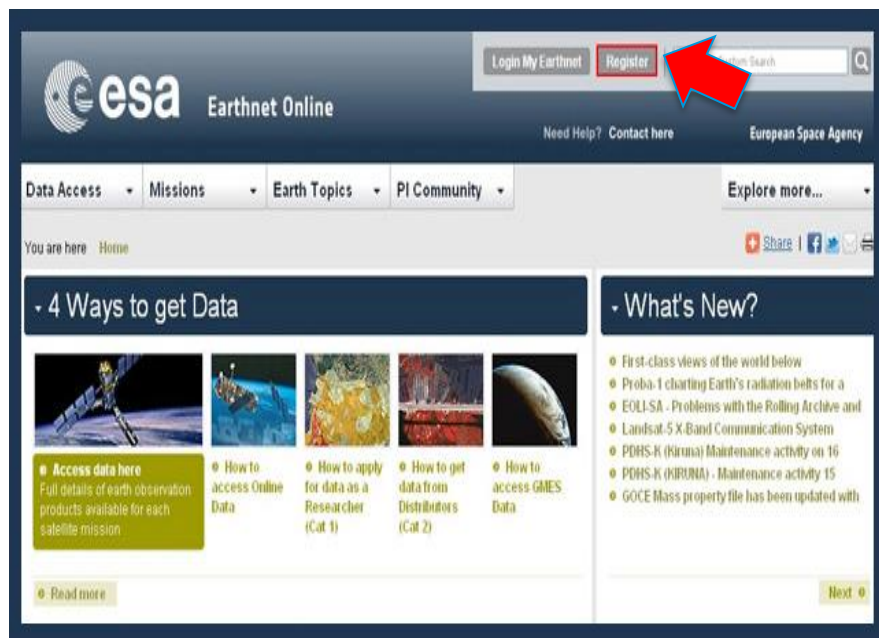


EO-SSO registration

The EO-SSO account allows the users to access ESA EO data and services

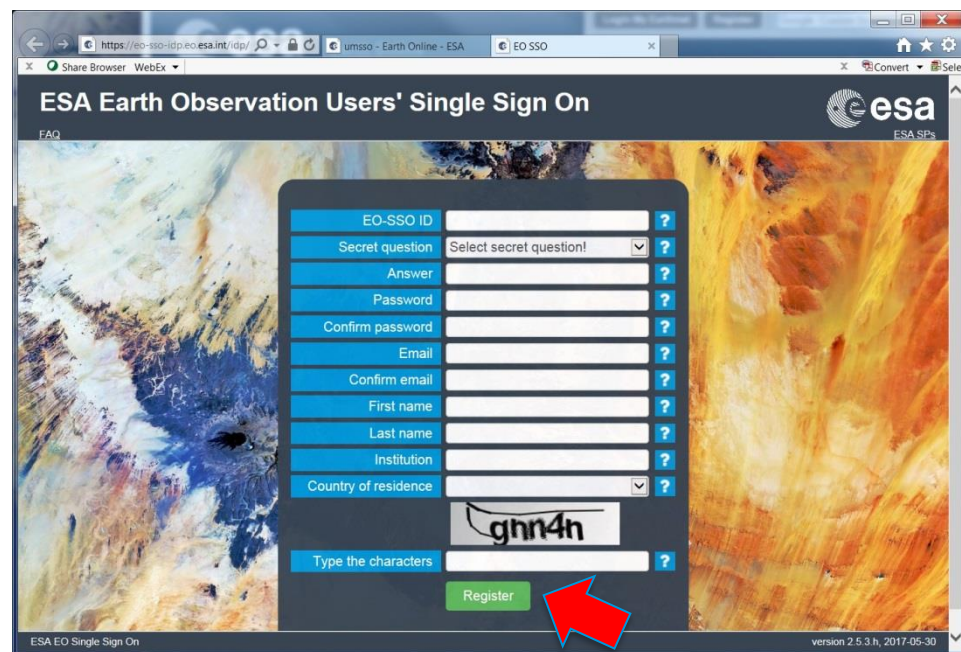
If you do not have an EO-SSO account, register at <https://earth.esa.int>

Step 1 – Click ‘Register’ button at the top of the page



Step 4 - Activate the account by clicking on the link provided in the received email

Step 2 - Fill in the registration form



ESA Earth Observation Users' Single Sign On

EO-SSO ID

Secret question

Answer

Password

Confirm password

Email

Confirm email

First name

Last name

Institution

Country of residence

gmn4h

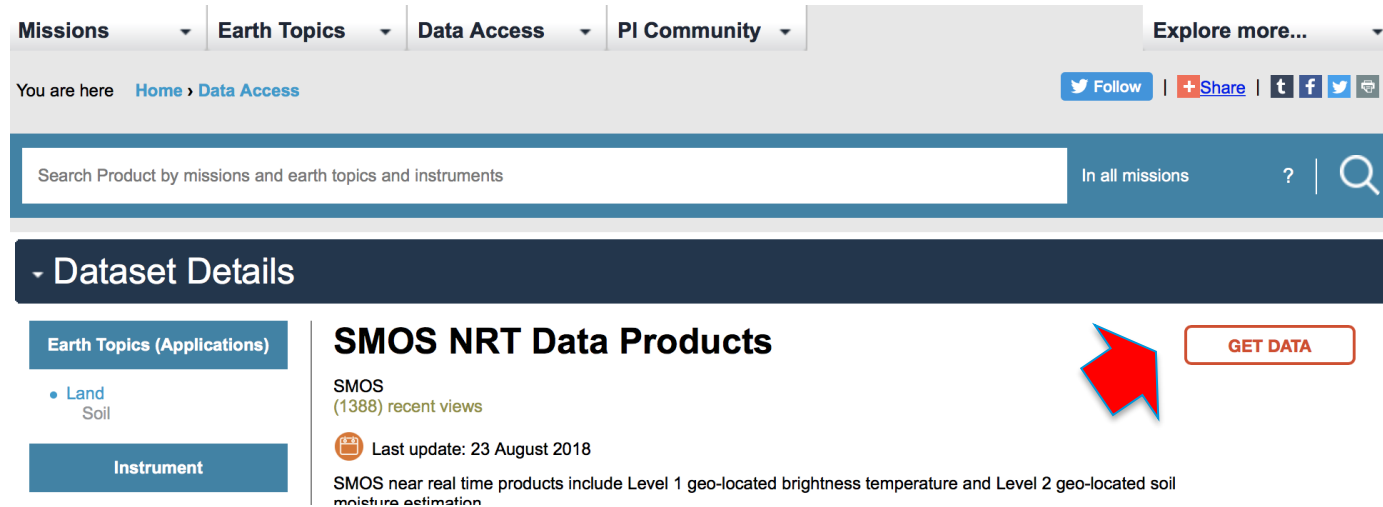
Type the characters

Register

Step 3 – Click the ‘Register’ button once the form is completed

Immediate access to Earth Explorers (Cryosat, GOCE, SWARM, SMOS)

1- identify data of interest



Missions | Earth Topics | Data Access | PI Community | Explore more...

You are here [Home](#) > [Data Access](#)

Follow | Share | t f t

Search Product by missions and earth topics and instruments In all missions ? | Q

- Dataset Details

Earth Topics (Applications)

- Land
- Soil

Instrument

SMOS NRT Data Products


SMOS (1388) recent views

Last update: 23 August 2018

SMOS near real time products include Level 1 geo-located brightness temperature and Level 2 geo-located soil moisture estimation

GET DATA

2- download data via dedicated dissemination system

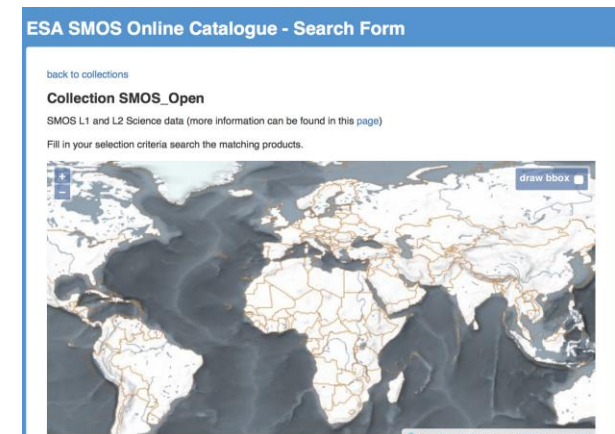


Collections Login

Welcome to the ESA SMOS Online Dissemination Service



This service provides free access to all SMOS Level 1 and Level 2 Science and NRT data, to some auxiliary data products and to daily L3C Sea Ice Thickness organized by [collections](#).



back to collections

Collection SMOS_Open

SMOS L1 and L2 Science data (more information can be found in this page)

Fill in your selection criteria search the matching products.

draw bbox

Data Access via self registration

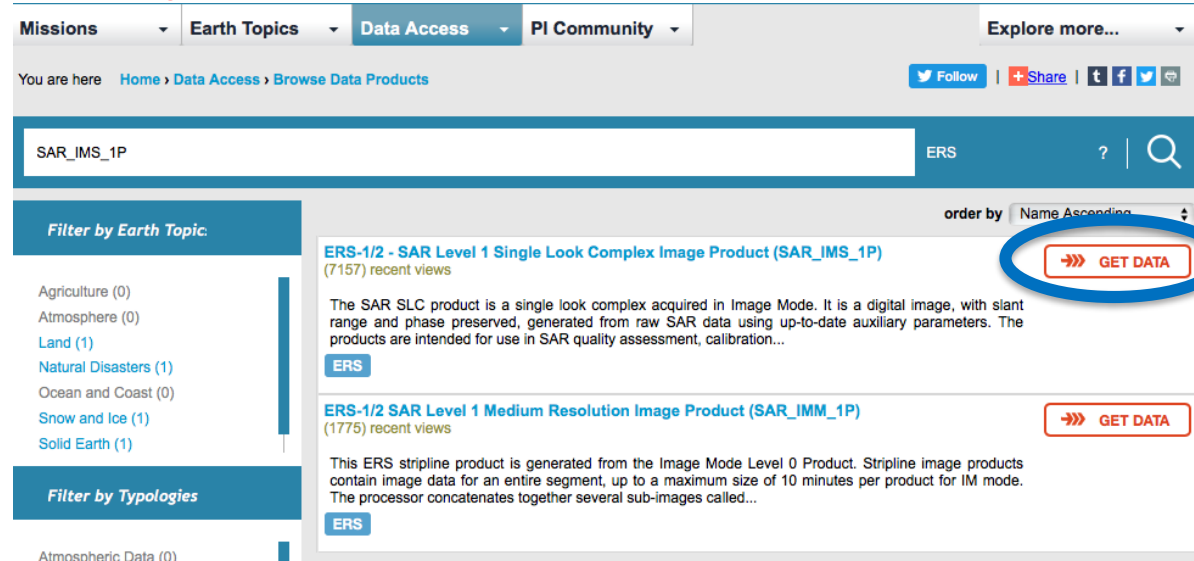
For most data, available on-line

- Immediate on-line access to the dataset - **fast registration**

1- Register/Login

2- "Get data" of interest

3- View selected datasets in My Earthnet



Signed in as Veronique.Amans

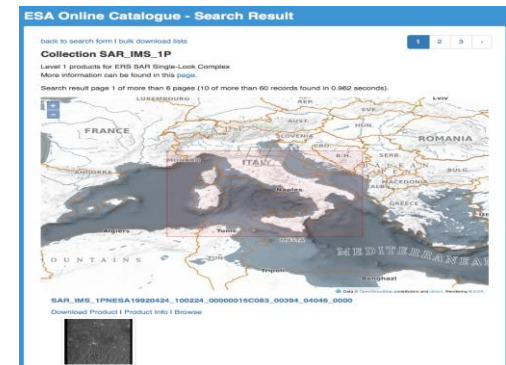
My Earthnet

Logout

Accessible via HTTP

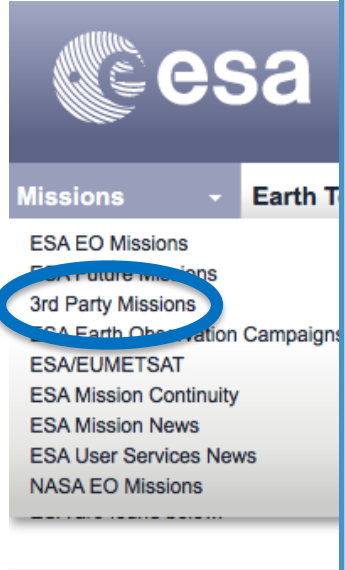
- **ESAR On-The-Fly Dissemination**
Click here for download.

4-Download data via
ESA online
dissemination system



Third Party Mission Data Access via ESA

- Different level of mission/data access
- Fast registration
- Fast registration
- Service Request
- Project proposal



ESA TPM Online Catalogue - Search Result

[back to search form](#) | [bulk download lists](#)

1 2 3 >

Collection SPOT1-5_ESA

SPOT 1-5 ESA archive. More [details](#).

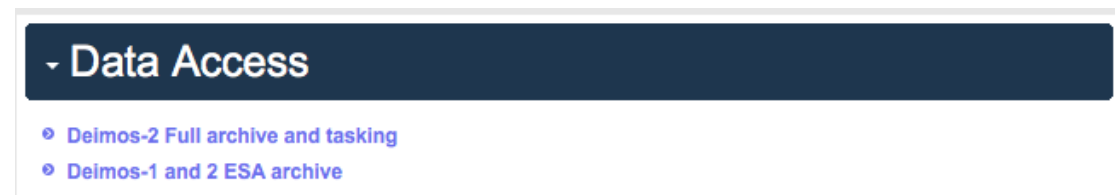
Search result page 1 of more than 6 pages (10 of more than 60 records found in 0.035 seconds).



SP1_OPER_HRV_P_1A_19970525T095034_19970525T095043_000099_0066_0266

[Download Product](#) | [Product Info](#) | [Browse](#)

- Different level of approval needed depending on the mission/dataset:
 - Fast registration
 - Fast registration with approval
 - Service Request
 - Project proposal



Deimos-2 Full archive and tasking

Deimos-2
(2819) recent views

Last update: 5 August 2016

Deimos-2 full archive and new tasking products are available at up to 0.75m resolution as:

Deimos-2 products	
Product	Description (um)
Pan-sharpened 4 bands	A four-band image, resulting from adding the information of each multispectral band to the panchromatic band. The fusion does not preserve all spectral features of the multispectral bands, so it should not be used for radiometric purposes.
Pan-sharpened 321 Natural Colours	
Pan-sharpened 432 False Colours	Single-band image coming from the panchromatic band.
Panchromatic	
Multispectral	Four-band image coming from the multispectral bands.
Bundle	Panchromatic + Multispectral bands: five-band multispectral products packaged to the same pass.
Stereo Pair	Obtained from two acquisitions of the same area in the same pass by using the agility feature of pan-sharpened or multispectral products.

The image products for Deimos-2 are delivered in GeoTIFF image format available on demand.

→ GET DATA

Dataset available upon positive evaluation of Data Service Request (2 weeks).

Submission Data Service Request

Main Submission Area

Fill out all relevant items:

- Cover page (user details and EO activity)
- EO Data Requirements
- Upload a file
- Acceptance of Terms and Conditions

Thank you!

Any Questions – Do not hesitate to ask today or
write to eohelp@esa.int