EODC
Earth Observation Data Centre

https://eodc.eu

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eodc

EODC

- Foundation: 15. May 2014
- Public-Private-Partnership (PPP)

- EODC's aim:
  - Focus on the collaboration between public and private sector
  - Setup and operation of joint IT infrastructure
  - Bridge between science and applications

EODC Mission

We advance our clients with

- **IT services tailored to earth observation** (EO) applications
- within a **collaborative space** where expertise can be shared, and
- a **trustful sustainable community** can grow **to create benefits for society**.

EODC as a strong partner operates an **IT infrastructure for mission-critical and science-friendly needs** by providing a variety of compute options in combination with a purpose-built storage system.

We serve **scientific, public and private** organisations.

EO data

- Strong focus on timeliness

- Additional data sets
  - ERA-5 data
  - Historic missions available
  - On request

- ARD offer
  - Global S1 backscatter data available
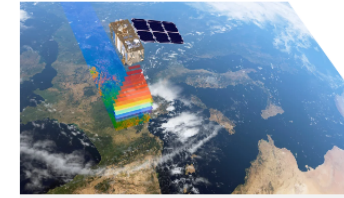 - Further offers in preparation

Sentinel-1

Sentinel-1 is an imaging radar mission providing continuous all-weather, day-and-night imagery at C-band. It provides high reliability, improved revisit time, geographical coverage and rapid data dissemination to support operational applications in the priority areas of marine monitoring, land monitoring and emergency services.

Our repository includes:

- Sentinel-1A+B L1C GRD HR IW & EW

Learn more >

Sentinel-2

Sentinel-2 is a wide-swath, high-resolution, multi-spectral imaging mission, with a constellation of two polar-orbiting satellites with a 5-days revisiting time. The mission supports Copernicus Land Monitoring studies, including the monitoring of vegetation, soil and water cover, as well as observation of inland waterways and coastal areas.

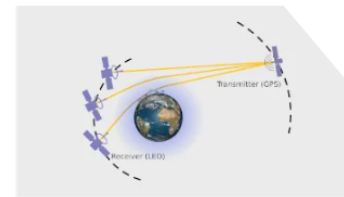Our repository includes:

- Sentinel-2A+B L1C

Learn more >

Sentinel-3

Sentinel-3 is a multi-instrument mission to measure sea-surface topography, sea and land surface temperature, ocean and land colour. It provides ocean measurement capability with consistent quality, high availability, accuracy and reliability, developed to support GMES ocean, land, atmospheric, emergency, security and cryospheric applications.

Our repository includes:

- Sentinel-3 L1C OLCI EFR & ERR

Learn more >

Wegener Center GNSS Radio Occultation Record

The Wegener Center GNSS radio occultation record, OPSv5.6, provides globally distributed upper-air satellite data of high quality from multiple Radio Occultation satellite missions, usable for climate and other high-accuracy applications.

Learn more >

Data discovery tools

To help you find the data you are looking for, we provide an OGC CSW interface, as well as our Earth Observation Meta Data Explorer (eomEX), a simple web-application providing a GUI and an API.

Learn more >

Anything missing?

We are driven by our partners and we listen to our customers. Let us know if you have any special requests for EO data.

Tell us what you need and we will do our best to provide the data you requested.

Request data

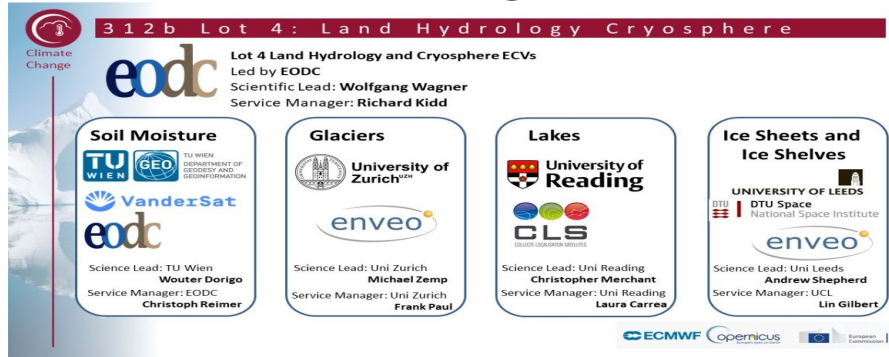# Copernicus Operational Services

- Copernicus Global Land (C-GLOPS)

  https://land.copernicus.eu/global

- Copernicus Climate Change Service (C3S), Lot 4: Land hydrology and cryospher

  https://climate.copernicus.eu/

- CEM: Global Flood Monitoring service

  https://www.globalfloods.eu/

Services via ESA / EC contracts

- openEO platform   https://openeo.cloud

- Data Hub Relay: ESA Missions

ESA EO Missions Data Hub Relay

Data Hub Relay operated by EODC

Access

https://datahub.eodc.eu/

- C-SCALE (Copernicus – eoSC AnaLytics Engine)
- GREAT   https://www.greatproject.eu/

GREAT
Green Deal Data Space

C-SCALE

https://c-scale.eu/

- interTwin

interTwin   https://www.intertwin.eu/

Acknowledgements

- EC
  - Copernicus
    - ECMWF: Copernicus Climate Change Service C3S 312b Lot4
    - JRC: Framework contract 939866 "Automated, Global, Satellite-based Flood Monitoring Product for the Copernicus Emergency Management Service"
    - JRC: Framework contract 941115 "Copernicus Global Land" CGLOPS 1
  - H2020
    - Copernicus – eoSC AnaLytics Engine (C-SCALE), Grant Agreement No.: 101017529
  - DIGITAL
    - DIGITAL-2021-CLOUD-AI-01: The Green Deal Data Space Foundation and its Community of Practice
  - Horizon Europe
    - HORIZON-INFRA-2021-TECH-01: An interdisciplinary Digital Twin Engine for science
- ESA
  - openEO platform
  - DHR ESA Missions
  - ESA Climate Change Initiative: CCI+ soil moisture
  - A(SAR) DATA SERIES OVER AUSTRIA PILOT PROJECT
- Austria
  - BMK/FFG: AI4SAR, INTERFACE, ScaleFloods, FAIR2earth
  - BMBWF: Kooperationsprojekt GEOCLIM and Cloud4GEO Data Infrastructure Austria