



Copernicus
OKO EUROPY NA ZIEMIĘ

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0 days 00 hours 00 minutes
Sentinel-2 constellation:
summer solstice

MODIS

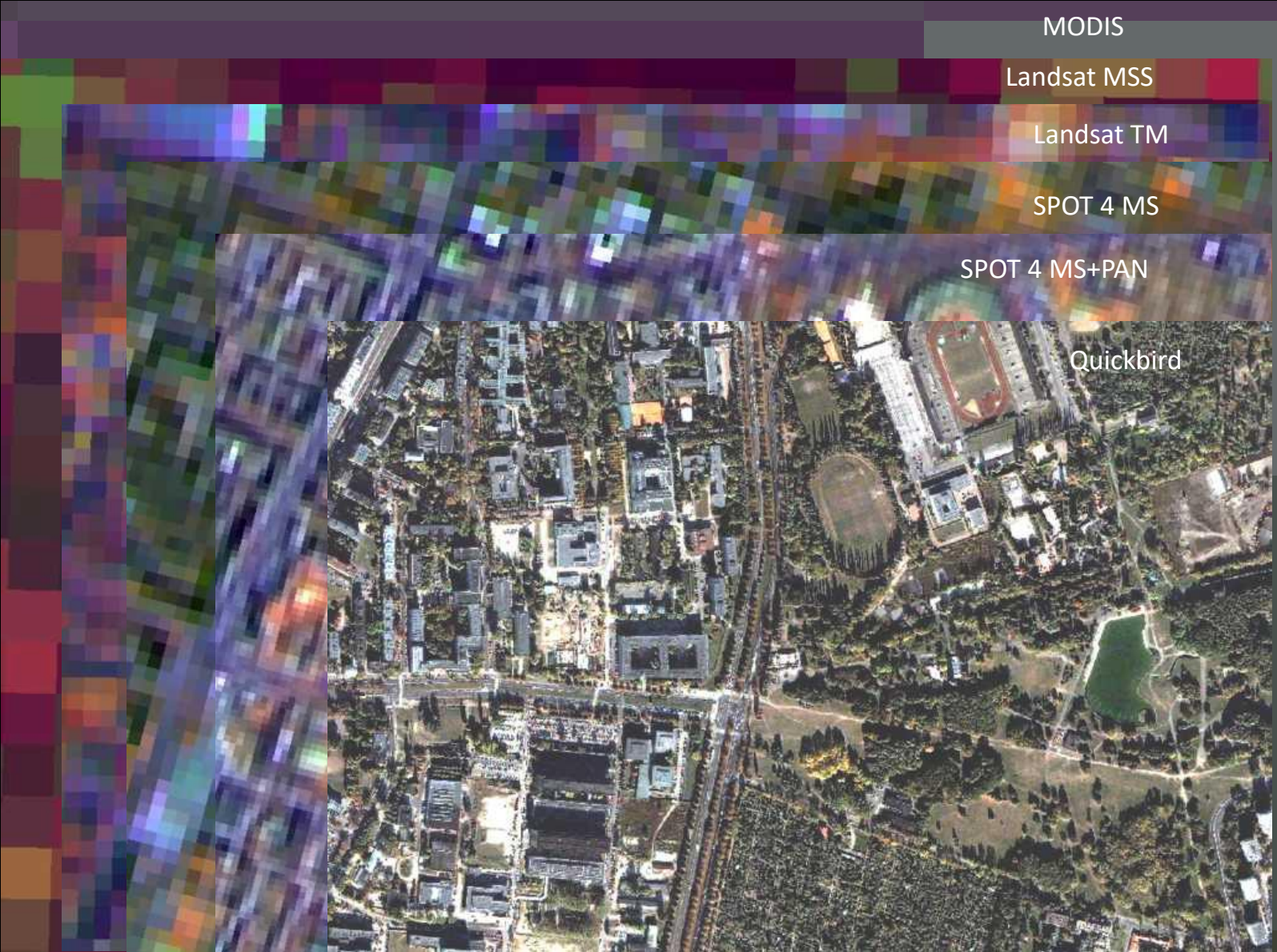
Landsat MSS

Landsat TM

SPOT 4 MS

SPOT 4 MS+PAN

Quickbird





Copernicus

Europe's eyes on Earth

by



&



Copernicus: satellite

COPERNICUS AND ITS SENTINELS

European Earth Observation Programme Copernicus: observing our planet for a safer world

- Known as GMES until 2012 - Global Monitoring for Environment and Security
- 30 Public and Private missions are also contributing data
- 16 years of development and testing
- Sentinel-Missions at the heart of the space component
- Civil Security: Allowing early warning and crisis prevention in conflict and disaster areas
- Emergency Management: Accurate and timely data for emergency plans and rescue for disaster management
- Land Surface Monitoring: Geographical information on land cover, related variables and urban development
- Marine Environmental Monitoring: Observations and forecasts on the state of the physical oceans and regional seas
- Climate Change Monitoring: Helps to understand the reasons for climate change, rising sea levels and melting ice caps
- Earth Atmosphere Monitoring: Daily information on the global atmospheric composition and when Sentinel-1 is in service this will be hourly

SENTINEL-1



- All-weather, day-and-night radar imaging satellite for land and ocean services
- Able to "see" through clouds and rain
- Data delivery within 1 hour of acquisition
- Airbus Defence and Space developed C-band radar instrument

SENTINEL-2



- Medium Res Multispectral optical satellite for observation of land, vegetation and water
- 13 spectral bands with 10, 20 or 60 m resolution and 290 km swath width
- Global coverage of the Earth's land surface every 5 days
- Airbus Defence and Space prime contractor for satellites and instruments

SENTINEL-3



- Measures sea-surface topography with a resolution of 300 m, sea and land surface temperature and colour with a resolution of 1 km
- Measures water vapour, cloud water content and thermal radiation emitted by the Earth
- Determines global sea surface temperatures with an accuracy greater than 0.3 K
- Airbus Defence and Space supplies Microwave Radiometer

SENTINEL-5P



- Global observation of key atmospheric constituents, including ozone, nitrogen dioxide, sulphur dioxide and other environmental pollutants
- Improves climate models and weather forecasts
- Provides data continuously during five-year gap between the retirement of Envisat and the launch of Sentinel-5
- Airbus Defence and Space prime contractor for satellite and TROPOMI instrument

SENTINEL-4



- Provides hourly updates on air quality with data on atmospheric aerosol and trace gas concentrations
- Spatial sampling is 8 km and spectral resolution between 0.12 nm and 0.5 nm
- Airbus Defence and Space prime contractor for spectrometer



- Carried aboard EUMETSAT's Meteosat Third Generation (MTG) satellites

SENTINEL-5



- Measures air quality and solar radiation, monitors stratospheric ozone and the climate
- Global coverage of Earth's atmosphere with an unprecedented spatial resolution
- Airbus Defence and Space prime contractor for instrument



- Carried aboard EUMETSAT's MetOp Second Generation satellites

SENTINEL-6

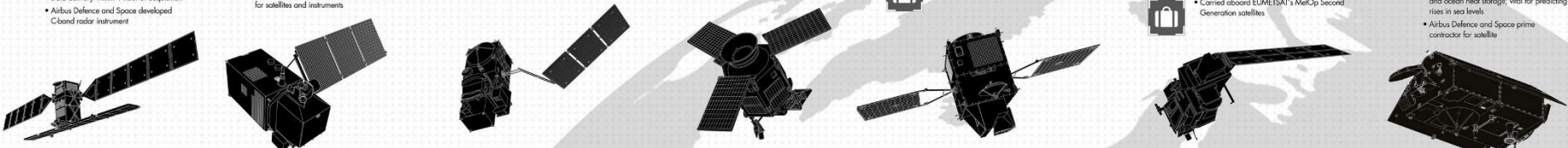


- Observes changes in sea surface height with an accuracy of a few centimeters

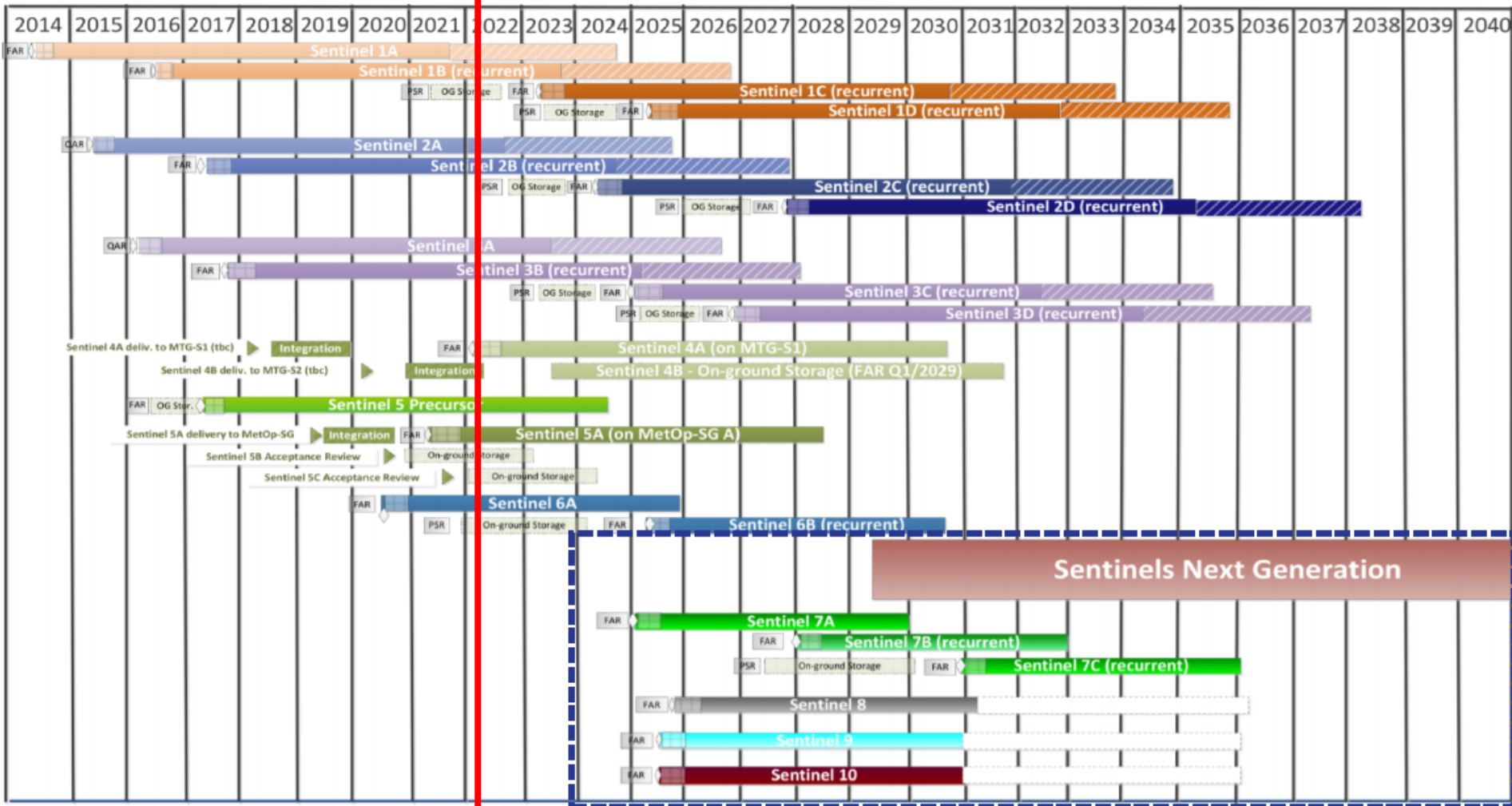
- Global mapping of the sea surface topography every 10 days
- Enables precise observation of ocean currents and ocean heat storage, vital for predicting rises in sea levels
- Airbus Defence and Space prime contractor for satellite

2014

2020



Copenicus: satelity



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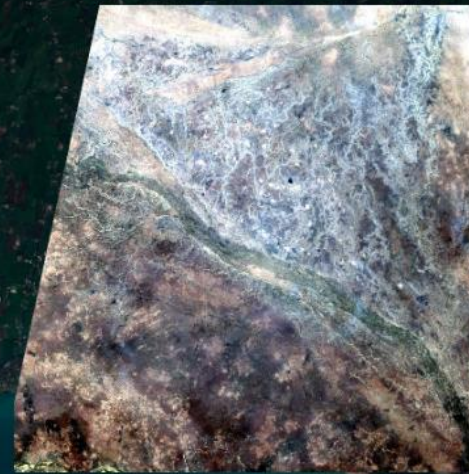


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S2 SCENES

This image is generated automatically via S2 Scenes, a sample DIAS Front-Office application.

Observation date:
2020-03-31 09:05:51
Location:
Chad, Africa

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Copernicus: serwisy



Serwisy: obszary lądowe



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Copernicus is a European system for monitoring the Earth. Data is collected by different sources, including Earth observation satellites and in-situ sensors. The data is processed and provides reliable and up-to-date information in six thematic areas: land, marine, atmosphere, climate change, emergency management and security. The land theme is divided into four main components:



Global

provides a series of bio-geophysical products on the status and evolution of the land surface at global scale at mid and low spatial resolution



Pan-European

provides information about the land cover and land use (LC/LU), land cover and land use changes and land cover characteristics



Local

focuses on different hotspots, i.e. areas that are prone to specific environmental challenges and problems



Imagery and reference data

Satellite imagery forms the input for the creation of Copernicus land products. In order to ensure an efficient and effective use of satellite data the Copernicus land monitoring service needs access to in-situ data

Serwisy: obszary lądowe

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Pan-European



[CORINE Land Cover](#)



[High Resolution Layers](#)



[Related Pan-European products](#)

Serwisy: obszary lądowe

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Pan-European



CORINE Land Cover



High Resolution Layers

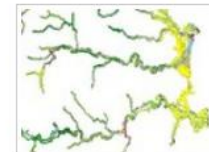


Related Pan-European products

Local



Urban Atlas

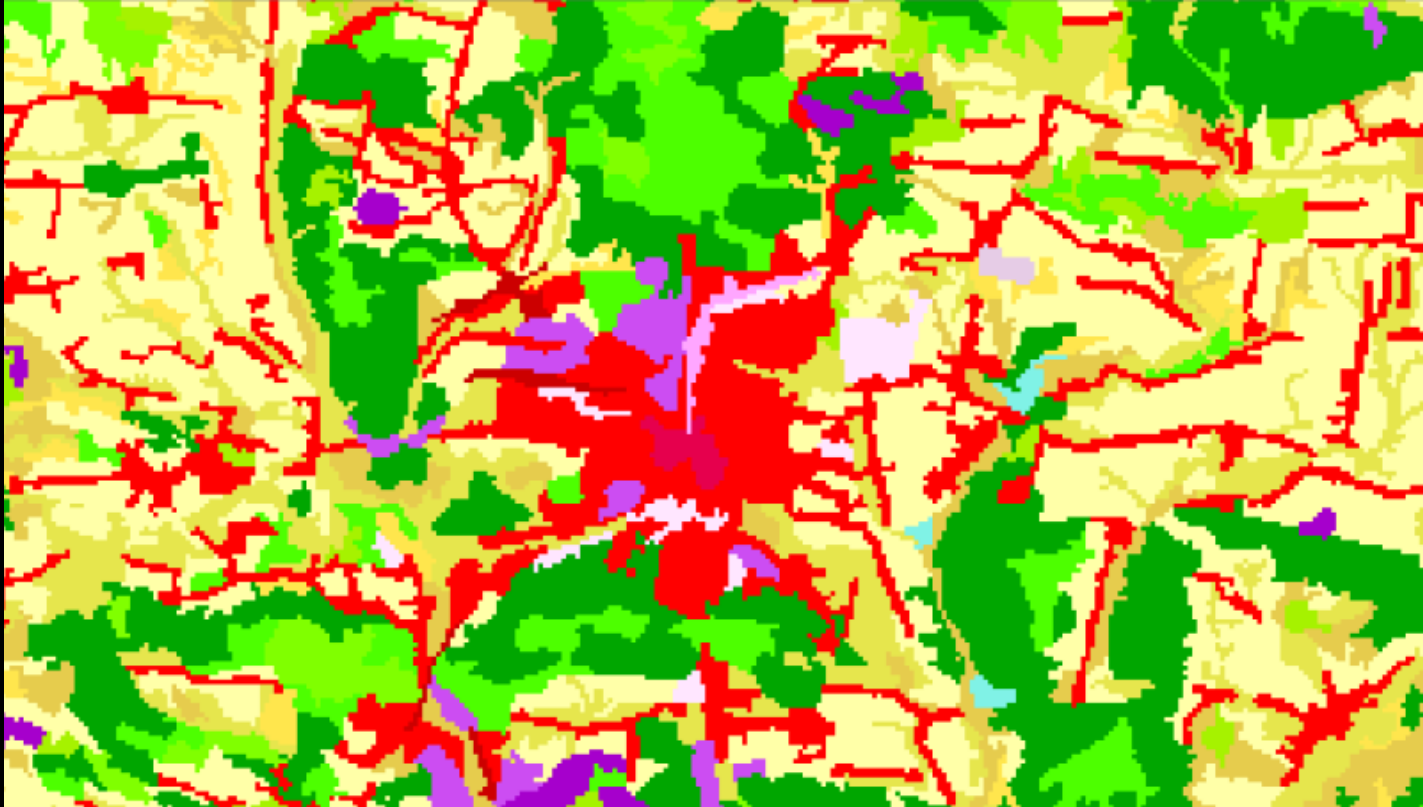


Riparian Zones

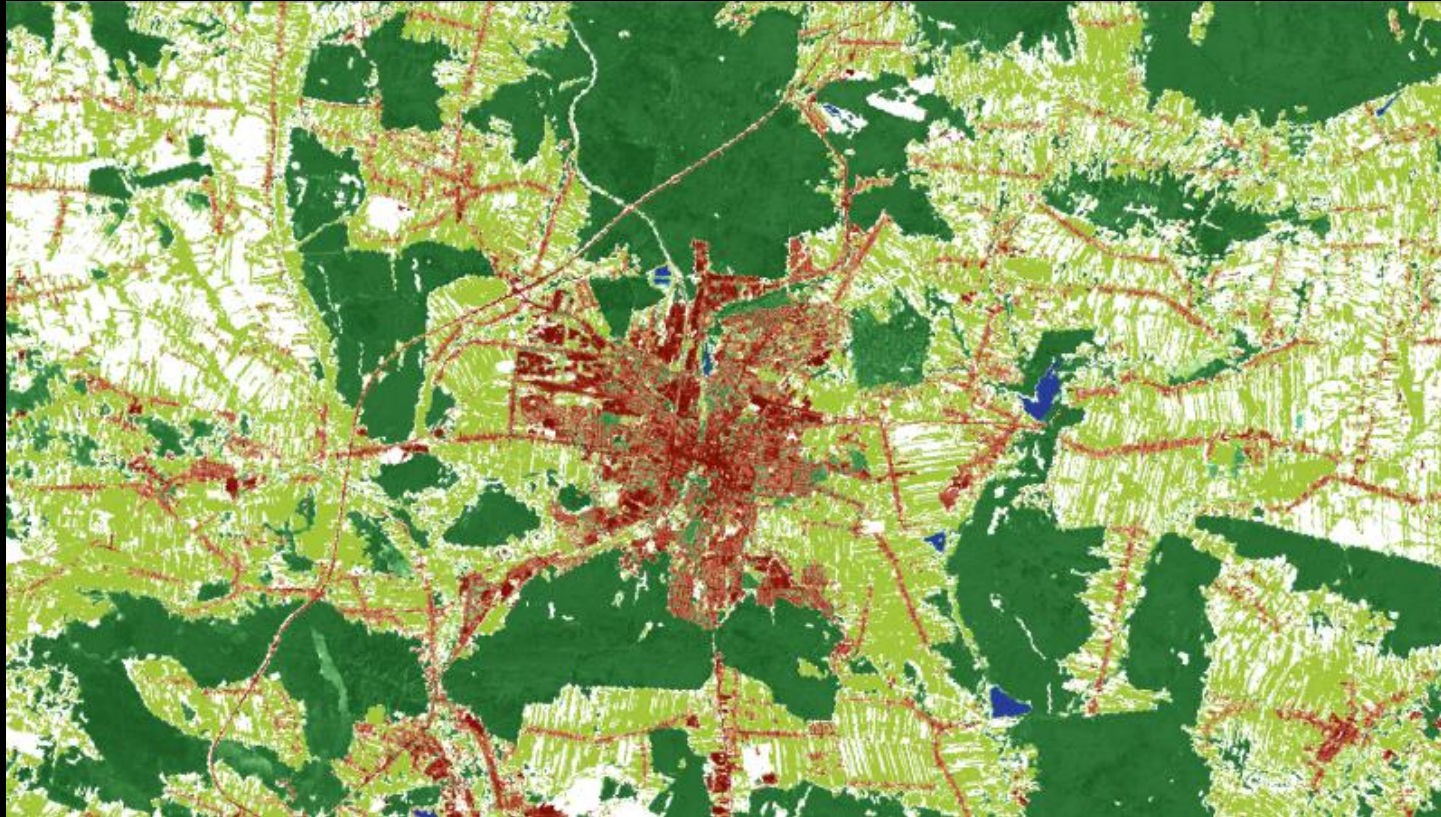


Natura 2000 (N2K)

Serwisy: obszary lądowe



Serwisy: obszary lądowe



Serwis: środowisko morskie

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Copernicus Marine Service

Providing free and open marine data and services to enable marine policy implementation, support Blue growth and scientific innovation.

[Access Data](#) >

DATA

OCEAN PRODUCTS

A robust ocean data catalogue, to download or visualise data including hindcasts, nowcasts and forecasts.

EXPERTISE

OCEAN STATE REPORT

Extensive annual analysis on the state of the ocean over nearly 20 years and severe/notable annual events.

TRENDS

OCEAN MONITORING INDICATORS

Essential variables monitoring the health of the ocean over the past quarter of a century.

EXPLORATION

OCEAN VISUALISATION

Dive into our 4D digital oceans through our 3 visualisation tools for beginner, intermediate and advanced users

<https://marine.copernicus.eu>

Serwis: środowisko morskie



BLUE



WHITE



GREEN

Serwis: środowisko morskie

Implemented by Mercator Ocean International as part of the Copernicus Programme



Copernicus Marine Service



Home



Search



Access Data



User Corner



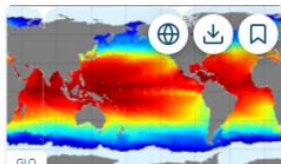
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GLO

Global Ocean 1/12° Physics Analysis And Forecast Updated Daily

GLOBAL_ANALYSIS_FORECAST_PHY_001_024

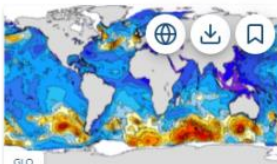
T bottom T S SSH UV MLD SIC SIT SIUV

From 2019-01-01 To Present

0.083 degree x 0.083 degree

Model assimilation

50 depths level
hourly mean - daily mean - monthly mean - 6 hourly ins...



GLO

Global Ocean Waves Analysis And Forecast

GLOBAL_ANALYSIS_FORECAST_WAV_001_027

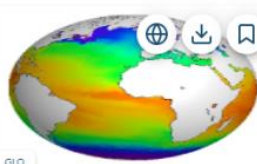
SWH MWT VMDR VSDXY WW SW1 SW2

From 2019-05-04 To Present

0.083 degree x 0.083 degree

Model assimilation

Surface only
3 hourly instantaneous



GLO

Global Ocean 1/4° Physics Analysis And Forecast Updated Daily

GLOBAL_ANALYSIS_FORECAST_PHY_CPL_001_015

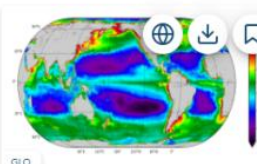
T bottom T S SSH UV MLD SIC SIT SIUV

From 2015-12-30 To Present

0.25 degree x 0.25 degree

Model assimilation

43 depths level
hourly instantaneous - daily mean



GLO

Global Ocean Biogeochemistry Analysis And Forecast

GLOBAL_ANALYSIS_FORECAST_BIO_001_028

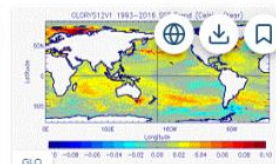
CHL PHYC O2 NO3 PO4 SI FE SPCO2 PH PP

From 2019-05-04 To Present

0.25 degree x 0.25 degree

Model assimilation

50 depths level
daily mean - monthly mean



GLO

Global Ocean Physics Reanalysis

GLOBAL_MULTYEAR_PHY_001_030

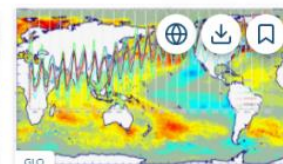
T bottom T S SSH UV MLD SIC SIT SIUV

From 1993-01-01 To 2019-12-31

0.083 degree x 0.083 degree

Model assimilation

50 depths level
daily mean - monthly mean - monthly-climatology mean



GLO

Global Ocean Ensemble Physics Reanalysis - Low Resolution

GLOBAL_REANALYSIS_PHY_001_026

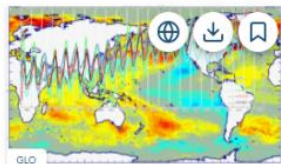
T S UV SIC SIT

From 1993-01-01 To 2019-12-15

1 degree x 1 degree

Model assimilation

75 depths level
monthly mean



GLO

Global Ocean Ensemble Physics Reanalysis

GLOBAL_REANALYSIS_PHY_001_031

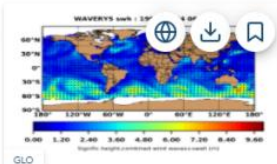
T S UV MLD

From 1993-01-01 To 2019-12-31

0.25 degree x 0.25 degree

Model assimilation

75 depths level
daily mean - monthly mean



GLO

Global Ocean Waves Reanalysis Waverys

GLOBAL_MULTYEAR_WAV_001_032

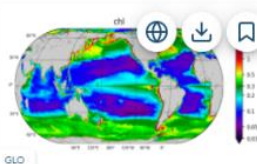
SWH MWT VMDR VSDXY WW SW1 SW2

From 1993-01-01 To 2020-12-31

0.2 degree x 0.2 degree

Model assimilation

discrete depths level
3 hourly instantaneous



GLO

Global Ocean Biogeochemistry Hindcast

GLOBAL_MULTYEAR_BGC_001_029

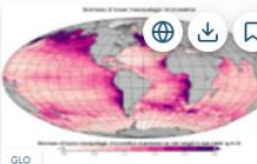
CHL PHYC O2 NO3 PO4 SI FE SPCO2 PH PP

From 1993-01-01 To 2020-12-31

0.25 degree x 0.25 degree

Model assimilation

75 depths level
daily mean - monthly mean



GLO

Global Ocean Low And Mid Trophic Levels Biomass Content Hindcast

GLOBAL_MULTYEAR_BGC_001_033

ZOOC MNKC ZEU

From 1993-01-01 To 2020-05-31

0.083 degree x 0.083 degree

Model assimilation

3 depths level
daily instantaneous



ARC

Arctic Ocean Physics Analysis And Forecast

ARCTIC_ANALYSIS_FORECAST_PHYS_002_001_A

T bottom T S UV SIC SIT SIUV SNOW SIAGE SIALB

From 2019-05-04 To Present

12.5 km x 12.5 km

Model assimilation

12 depths level
hourly instantaneous - daily mean



ARC

Arctic Ocean Sea Ice Analysis And Forecast

ARCTIC_ANALYSIS_FORECAST_PHYS_ICE_002_011

SIC SIT SIUV SNOW

From 2019-11-01 To Present

3 km x 3 km

Model assimilation

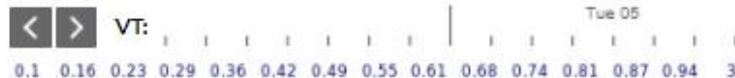
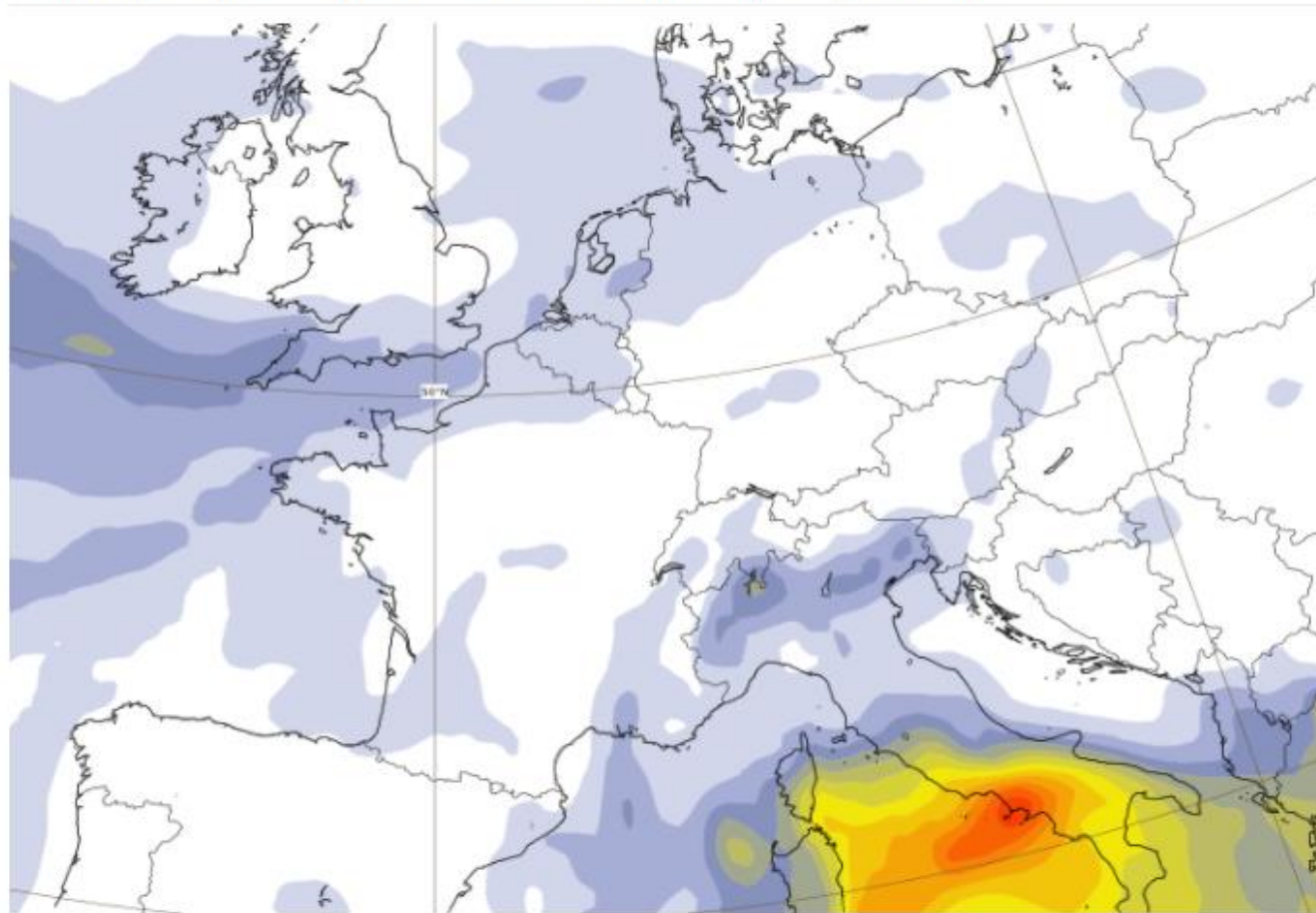
Surface only
hourly mean



Serwis: atmosfera


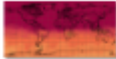
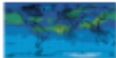
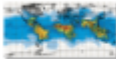
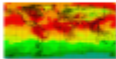





Aerosol optical depth at 550 nm (provided by CAMS, the Copernicus Atmosphere Monitoring Service)

Monday 4 Apr, 00 UTC T+60 Valid: Wednesday 6 Apr, 12 UTC




CAMS aerosol forecasts

Forecasts

-  **Aerosol forecasts**
CAMS aerosol forecasts
-  **Carbon Dioxide forecasts**
CAMS carbon dioxide foreca...
-  **Carbon Monoxide forecasts**
CAMS carbon monoxide fore...
-  **Formaldehyde forecasts**
CAMS formaldehyde forecasts
-  **Methane forecasts**
CAMS methane forecasts
-  **Nitrogen Dioxide forecasts**
CAMS nitrogen dioxide forec...
-  **Ozone forecasts**
CAMS ozone forecasts
-  **Particulate matter forecasts**
CAMS particulate matter for...
-  **Sulphur Dioxide forecasts**
CAMS sulphur dioxide forec...
-  **Uv index forecasts**
CAMS UV index forecasts

Analyses

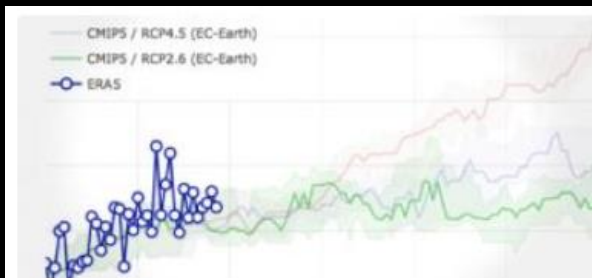
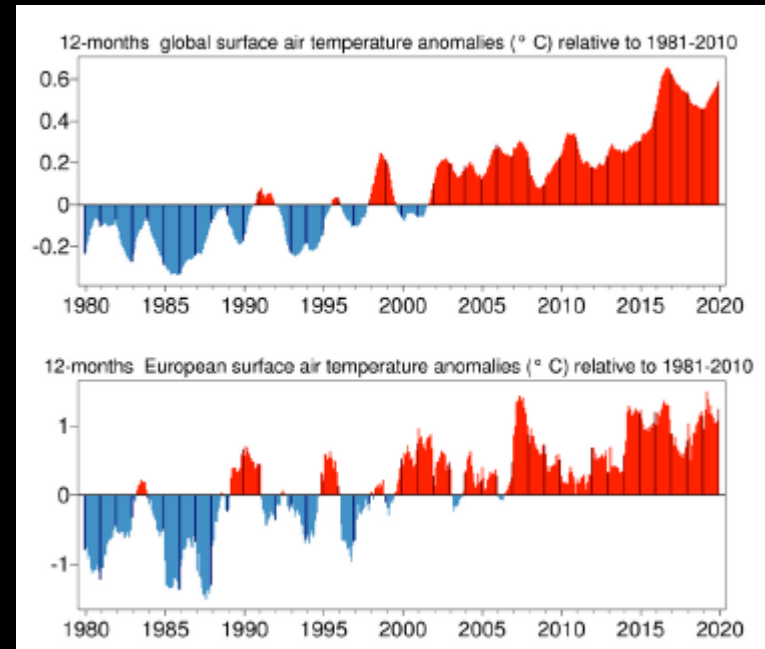
-  **Fire activity analyses**
CAMS fire activity analyses

Aerosol optical depth at 550 nm (provided by CAMS, the Copernicus Atmosphere Monitoring Service)

<https://atmosphere.copernicus.eu/>

Serwis: zmiany klimatu

- biuletyny o globalnej temperaturze i jej anomaliach,
- biuletyny dotyczące powierzchni lodu morskiego na obszarach około biegunowych,
- informacja o globalnych zmianach hydrologicznych,
- europejskie raporty klimatyczne.



Climate Data Store **Toolbox**

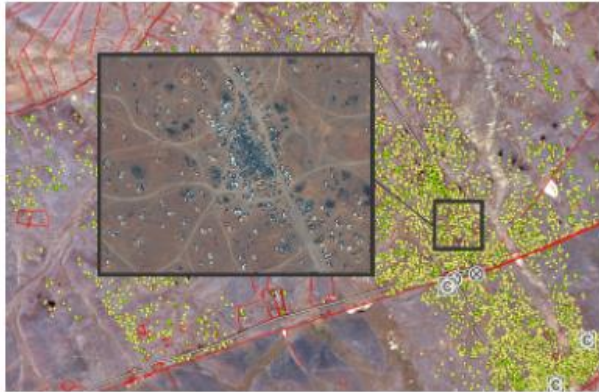
```
self.session.auth = tuple(self.key, self.secret)
self.session.headers = {'User-Agent': 'ClimateDataStore'}
self.session.post(url, data={'key': self.key, 'secret': self.secret})
self.result = self.session.post(url, data={'key': self.key, 'secret': self.secret})
self.result.raise_for_status()
self.result = result.json()
self.description = self.result['description']
self.reply = None
self.reply = self.result['reply']
```

Climate Data Store **API**



Access the **ECMWF Support Portal**

Serwis: bezpieczeństwo



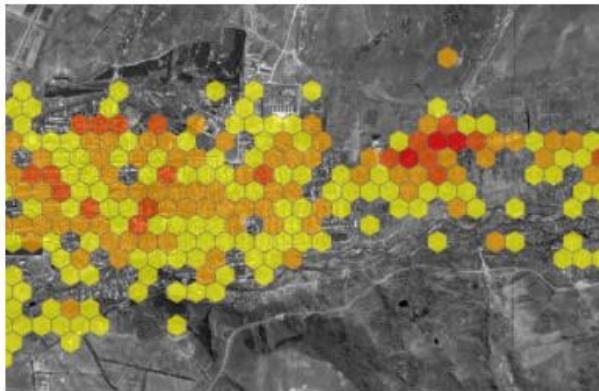
Camp Analysis



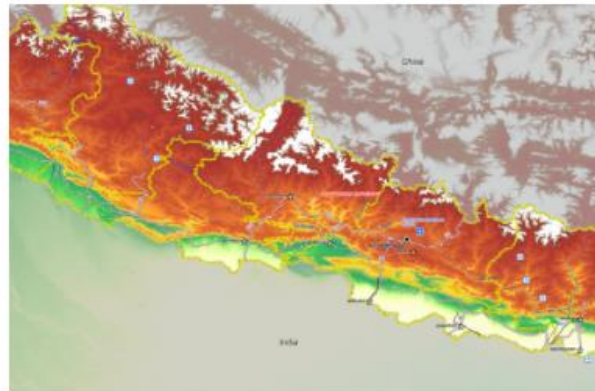
Critical Infrastructure Analysis



Non-EU Border Map



Conflict Damage Assessment







Crisis Situation Picture




Reference Map

Bezpośredni dostęp do danych




Welcome to the Copernicus Open Access Hub


The Copernicus Open Access Hub (previously known as Sentinels Scientific Data Hub) provides complete, free and open access to [Sentinel-1](#), [Sentinel-2](#) and [Sentinel-3](#) user products, starting from the In-Orbit Commissioning Review (IOCR).




Open Hub




API Hub




S-3 PreOps Hub




S-5P PreOps Hub




GNSS Hub



User Guide



Open Source Portal



Reports & Stats

Access Points

Open Access Hub : access point for all Sentinel missions with access to the interactive graphical user interface.

API Hub : access point for API users with no graphical interface. All API users regularly downloading the latest data are encouraged to use this access point for a better performance.

Sentinel-3A Pre-operational Hub : pre-operational access point for all users to Sentinel-3 L1 and L2 Land data. **Login credentials are s3guest:s3guest** .

Sentinel-5P Pre-operational Hub : pre-operational access point for all users to Sentinel-5P L1B and L2 data. **Login credentials are s5pguest:s5pguest**

Sentinels GNSS Rinex Pre-operational Hub : pre-operational access point for all users to the GNSS L1b products in Rinex format of all the Sentinel platforms in operations. **Login credentials are gnssguest:gnssguest**

For more details or request of help support please send an e-mail to eosupport@copernicus.esa.int

<https://scihub.copernicus.eu>

Bezpośredni dostęp do danych

The screenshot shows the Copernicus Open Access Hub website. At the top, there are logos for Copernicus, ESA, and the European Commission. The main heading is "Copernicus Open Access Hub". Below this, a dark blue banner reads "Welcome to the Copernicus Open Access Hub". A paragraph explains that the hub provides complete, free, and open access to Sentinel-1, Sentinel-2, and Sentinel-3 user products, starting from the In-Orbit Commissioning Review (IOCR). The central part of the page features five white boxes with blue icons and labels: "Open Hub", "API Hub", "S-3 PreOps Hub", "S-5P PreOps Hub", and "GNSS Hub". Below these are three more options: "User Guide" (with a question mark icon), "Open Source Portal" (with a gear icon), and "Reports & Stats" (with a bar chart icon). At the bottom, a dark blue banner titled "Access Points" contains detailed text for each access point: "Open Access Hub" (interactive GUI), "API Hub" (no GUI), "Sentinel-3A Pre-operational Hub" (Sentinel-3 L1/L2 Land data, login: s3guest:s3guest), "Sentinel-5P Pre-operational Hub" (Sentinel-5P L1B/L2 data, login: s5pguest:s5pguest), and "Sentinels GNSS Rinex Pre-operational Hub" (GNSS L1b products in Rinex format, login: gnssguest:gnssguest). A footer note asks users to email eosupport@copernicus.esa.int for more details or support.

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Open Hub **API Hub** **S-3 PreOps Hub** **S-5P PreOps Hub** **GNSS Hub**

User Guide **Open Source Portal** **Reports & Stats**

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Sentinel-5P Pre-operational Hub : pre-operational access point for all users to Sentinel-5P L1B and L2 data. **Login credentials are s5pguest:s5pguest**
Sentinels GNSS Rinex Pre-operational Hub : pre-operational access point for all users to the GNSS L1b products in Rinex format of all the Sentinel platforms in operations. **Login credentials are gnssguest:gnssguest**

For more details or request of help support please send an e-mail to eosupport@copernicus.esa.int

Główne
Repozytorium
Zdjęć

Bezpośredni dostęp do danych

The screenshot displays the SENTINEL Hub Playground interface. The top navigation bar includes the logo, the text "SENTINEL Hub Playground", a date selector set to "2018-10-15", a weather indicator showing "25%", and a search bar with "Warszawa, Polska" entered. On the left, a "Rendering" panel lists various visualization options:

- Custom
- Natural color (Based on bands 4,3,2)
- Color Infrared (vegetation) (Based on bands 8,4,3)
- False color (urban) (Based on bands 12,11,4)
- Agriculture (Based on bands 11, 8, 2)
- Vegetation Index (Based on combination of bands (B8 - B4)/(B8 + B4))
- Moisture Index (Based on combination of bands (B8A - B11)/(B8A + B11))
- Geology (Based on bands 12,4,2)
- Bathymetric (Based on bands 4,3,1)
- Atmospheric penetration (Based on bands 12,11,8A)
- SWIR (Based on bands 12,8A,4)
- NDWI (Based on combination of bands (B3 - B8)/(B3 + B8))
- SWIR-2,11,12 (Based on bands 2,11,12)

A "GENERATE" button is located at the bottom of this panel. The main area shows a false-color satellite image of Warsaw, Poland, with a calendar overlay for October 2018. The calendar highlights the date 15th. The image is labeled with "2018-10-15" in several locations. At the bottom of the image, there is a small text box that reads "Get Sentinel and Landsat imagery in your GIS" and a "OpenS" logo.

Bezpośredni dostęp do danych

The screenshot displays the EO Browser web application interface. The main map shows a satellite view of Warsaw, Poland, with a grid overlay. The sidebar on the left contains a search bar and a list of four search results, each with a thumbnail, date, time, cloud cover percentage, EPSG code, and a 'Visualize' button. The top right corner features a search bar with 'Warszawa, Polska' and various map controls. The bottom of the interface includes a footer with copyright information and a scale bar.

EO Browser Login

Search Results Visualization Pins

Results Clear data

Showing 4 results.

- 2020-03-30 09:46:10 UTC 62.82 % EPSG:4326 34UDC Visualize
- 2020-03-30 09:46:06 UTC 49.97 % EPSG:4326 34UEC Visualize
- 2020-03-30 09:45:56 UTC 71.03 % EPSG:4326 34UDD Visualize
- 2020-03-30 09:45:52 UTC 49.21 % EPSG:4326 34UED Visualize

Free sign up for all features

Powered by Sinerise with contributions from the European Space Agency v2.20.20

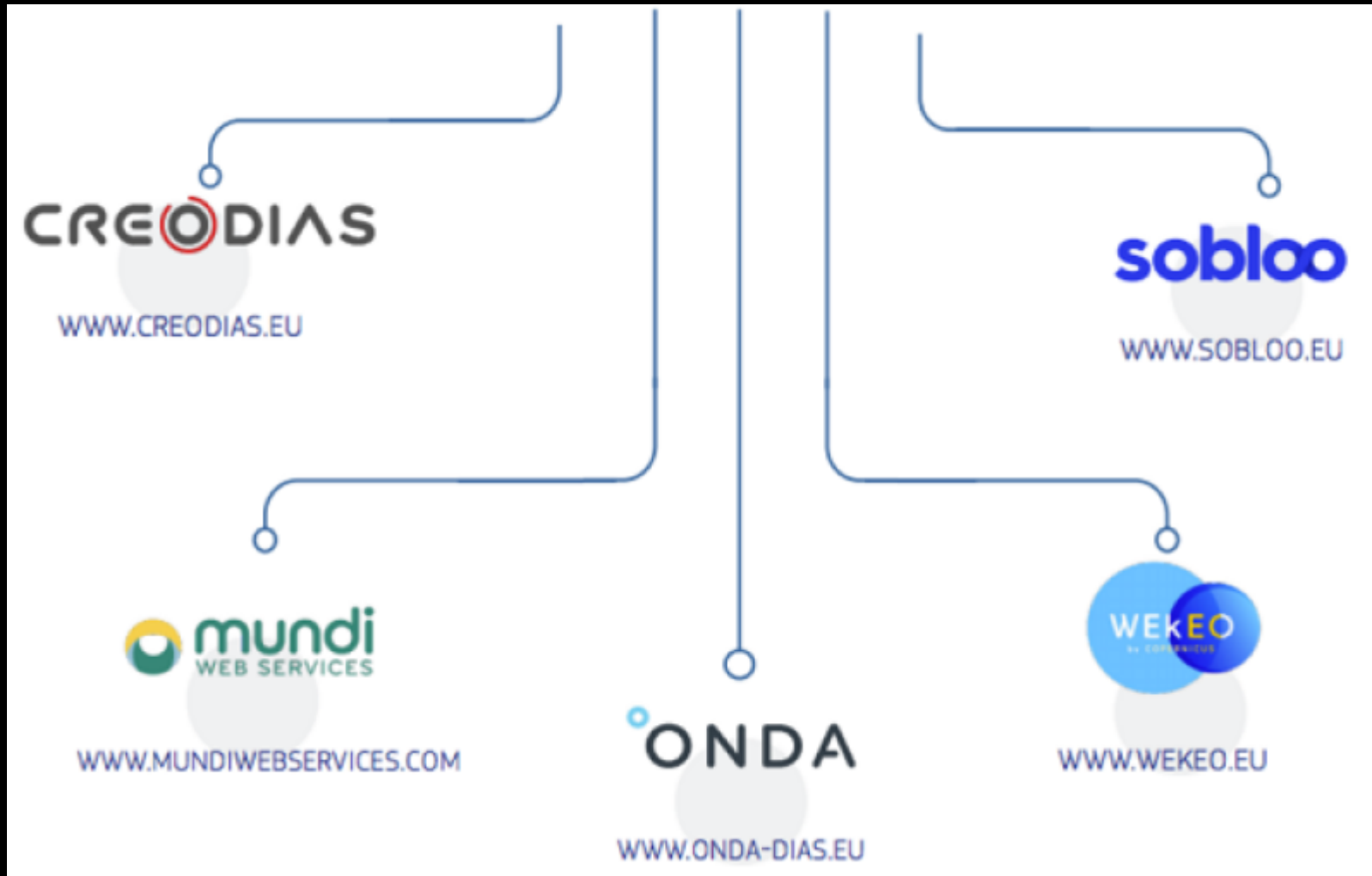
Carto © CC BY 3.0, OpenStreetMap © ODbL

About EO Browser Contact us Get data

Lat: 52.1276, Lng: 21.9065 5 km

Data and Information Access Services - DIAS

Data and Information Access Services - DIAS



Data and Information Access Services - DIAS

The screenshot displays the CREODIAS website interface. At the top, there are navigation links: 'Docs', 'Order now', 'Contact us', 'Register', and 'Log in'. The main header includes the 'CREODIAS' logo, 'powered by CloudPatria', and a navigation menu with 'Offer', 'Tools', 'Resources', 'Data Offer', 'Third Party Catalogue', and 'News'. A 'FREE TRIAL' badge is visible. A search bar and a 'Knowledgebase' dropdown are also present.

The 'Tools' dropdown menu is highlighted with a yellow box and contains the following items:

- EO Browser
- EO Finder
- Cloud Dashboard
- JupyterHub

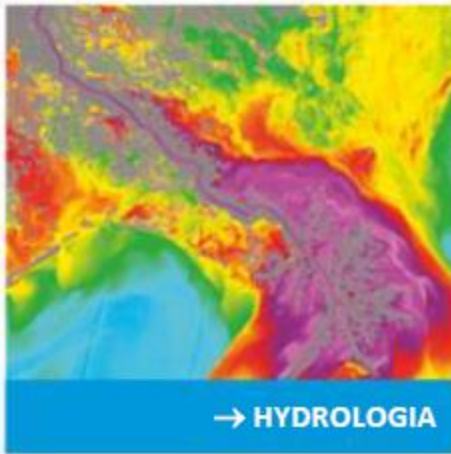
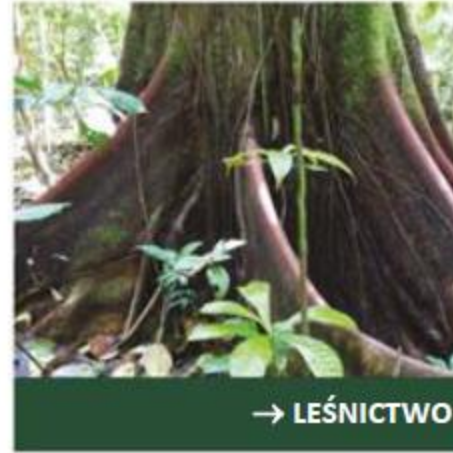
The main content area features a large satellite image of a coastal region. Text on the left reads: 'WHAT IS CREODIAS', 'CREODIAS – immediate access to Earth Observation satellite data and user friendly tools for its processing in the cloud.', and 'No need to download. Explore and enjoy!'. A 'Try it out' button is located below this text.

On the right side, there is a 'S2 SCENES' section. It includes a satellite image of a bright spot in a desert landscape. Text next to it says: 'This image is generated automatically via S2 Scenes, a sample DIAS Front-Office application.' Below this, it lists 'Observation date: 2021-11-25 04:41:19' and 'Location: Mongolia, Asia'. A note says 'For more information, use links below.' There are two buttons: 'Download image' and 'Visit S2 Scenes'.

At the bottom, there is a grid of service categories, each with an icon and a right-pointing arrow:

- DATA DISCOVERY (satellite icon)
- DATA BROWSER (cloud icon)
- PRICING (hand holding coin icon)
- SEN4CAP (grid with location pin icon)
- VHR IMAGES (satellite with zoom icon)
- GPU SERVICES (GPU icon)

Thematic exploitation platforms



Copernicus MOOC



The course addresses three key topics:

- Chapter 1 - Understanding Copernicus data and services- what they are, and how they can be accessed and used
- Chapter 2 - Learning from success stories – understanding how existing Copernicus-enabled services and applications have been developed and deployed
- Chapter 3 - Doing it yourself – acquiring the key skills and knowledge to develop and deploy Copernicus-enabled products and services and to navigate the Copernicus ecosystem.

Copernicus Masters



ESA Copernicus 4.0 Challenge

ESA is looking for solutions that reflect the upcoming "golden era" in Earth Observation by demonstrating how new trends in EO can work together with the traditional EO satellites.



DLR Environment, Energy & Health Challenge

DLR is looking for innovative ideas that use EO data to drive the sustainable management of our limited natural resources and foster humanity's well-being.



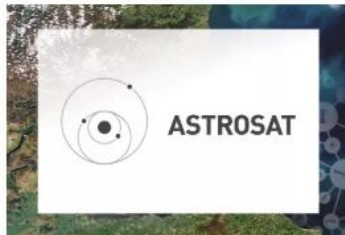
Planet "See Change, Change the World" Challenge

Planet is looking for new solutions that solve important sustainable development challenges faced by today's population.



BayWa Smart Farming Challenge

BayWa is looking for innovative solutions that use new technologies, ideas and products to support sustainable agriculture.



Astrosat Thermal Impact & Energy Challenge

Astrosat is looking for new solutions that use Copernicus data to clearly identify the overconsumption of energy in urban areas.



Airbus sobloo Multi-Data Challenge

Airbus and sobloo are looking for solutions that use both Sentinel and Airbus EO data to deliver value-added services for specific communities and markets.



BMVI Digital Transport Challenge

BMVI is looking for solutions that use Copernicus data to solve major challenges faced by transport systems today.



Social Entrepreneurship Challenge

The Copernicus Masters Social Entrepreneurship Challenge is looking for solutions using Copernicus data that solve social, cultural, or environmental issues and generate a positive return to society.

Copernicus Masters



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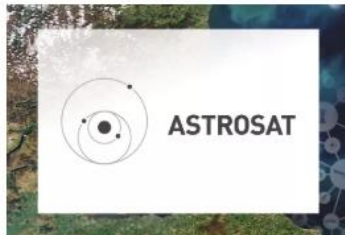
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The Space Masters Day
27 APRIL 2022

Copernicus Incubation



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€ 50.000 to boost your start-up

Make Copernicus data and services work for you

The programme will award **50.000 euro to 20 European start-ups** every year, to finance their incubation/acceleration supporting organisation of their choice .



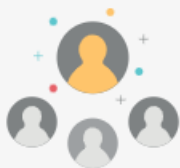


12
months
of guidance

The Copernicus Accelerator offers 50 of Europe's boldest innovators and start-ups a unique 12-month tailor-made coaching programme. It provides a challenging, inspiring and inclusive setting for you to take your idea to the next level. At the Copernicus Accelerator, you have access to everything you need to achieve your vision and take your idea to market. Applications for the 2021 edition are now closed. Sign up to our newsletter to learn when the next application round is open.



Coaching



Bootcamps



**Virtual
Training**



**Access to the EO
network**



Meet Investors



**Market
Validation**