

BalticSatApps

Jak pozyskać dane satelitarne?

www.balticsatapps.eu


www.balticsatapps.pl

Dostęp do danych

Należy wejść na stronę

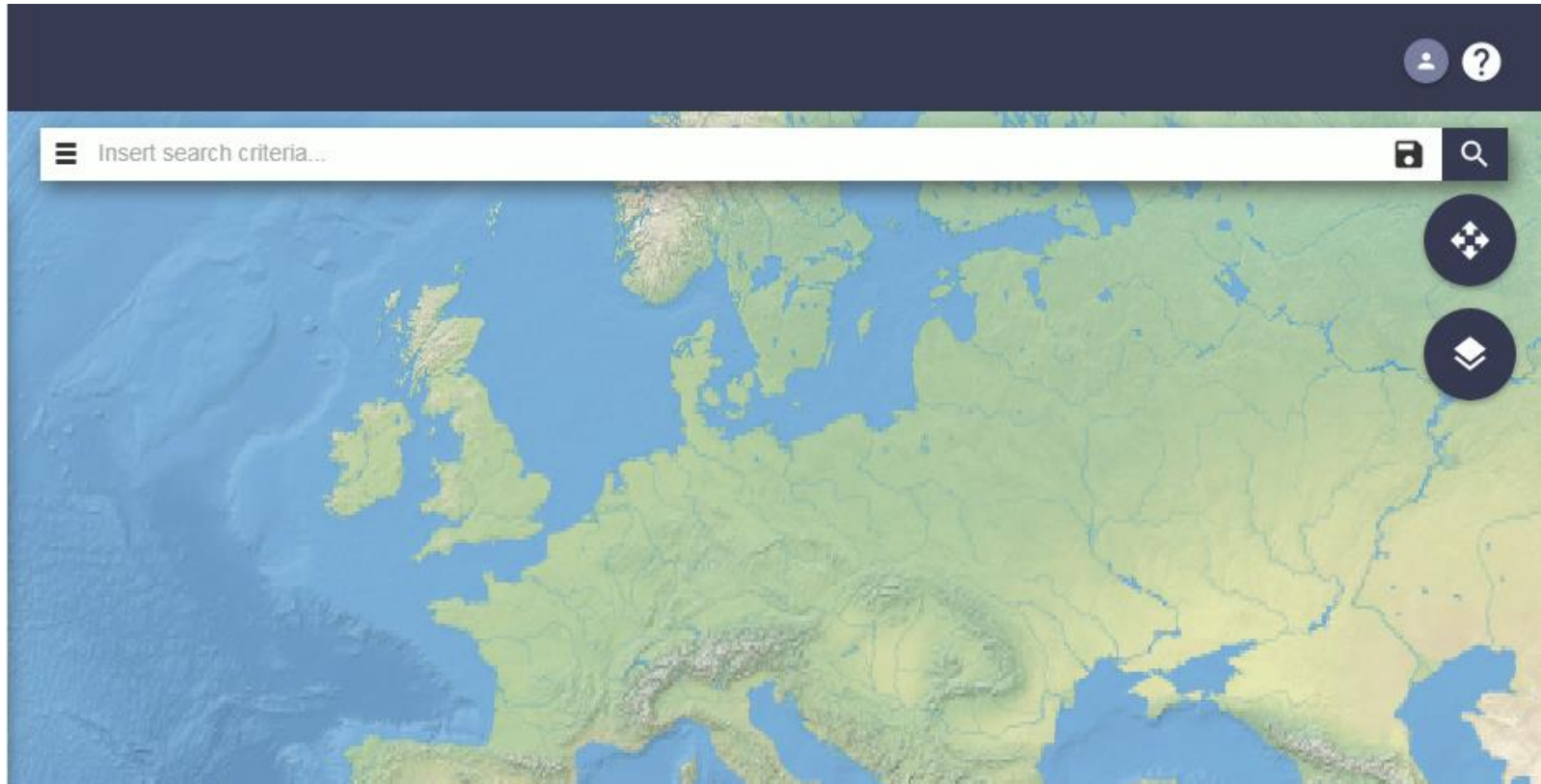
<https://coda.eumetsat.int/#/home>

W pierwszej kolejności zostaniesz poproszony o zalogowanie lub utworzenie bezpłatnego konta.

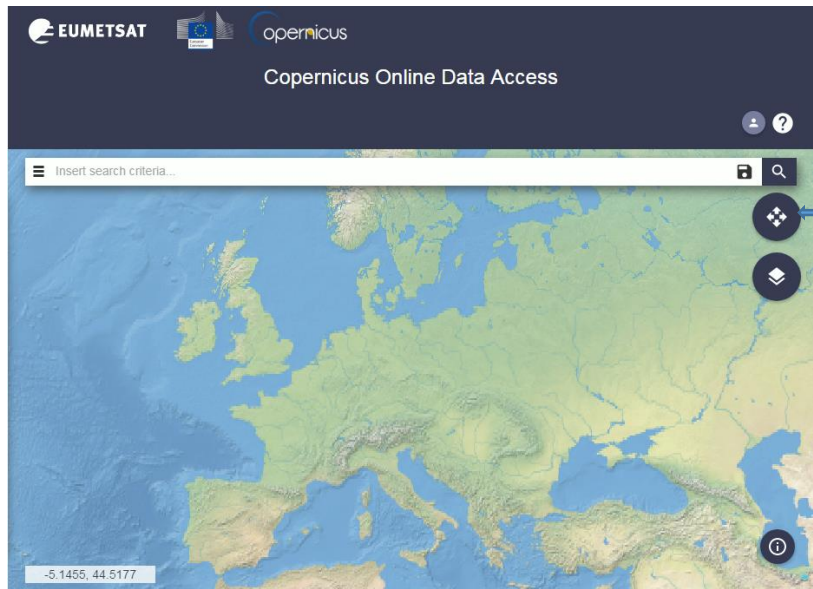


Dostęp do danych

<https://coda.eumetsat.int/#/home>



Dostęp do danych - Wybór obszaru



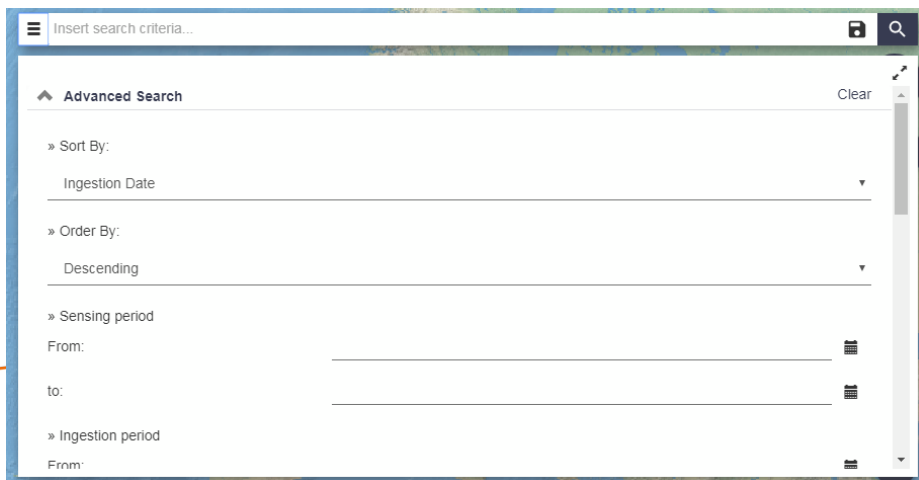
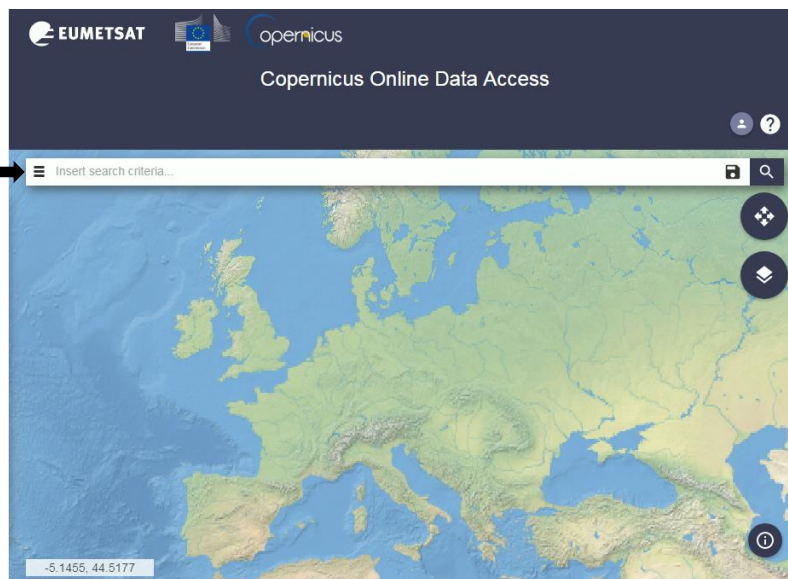
Położenie geograficzne



Zaznaczenie obszaru na mapie

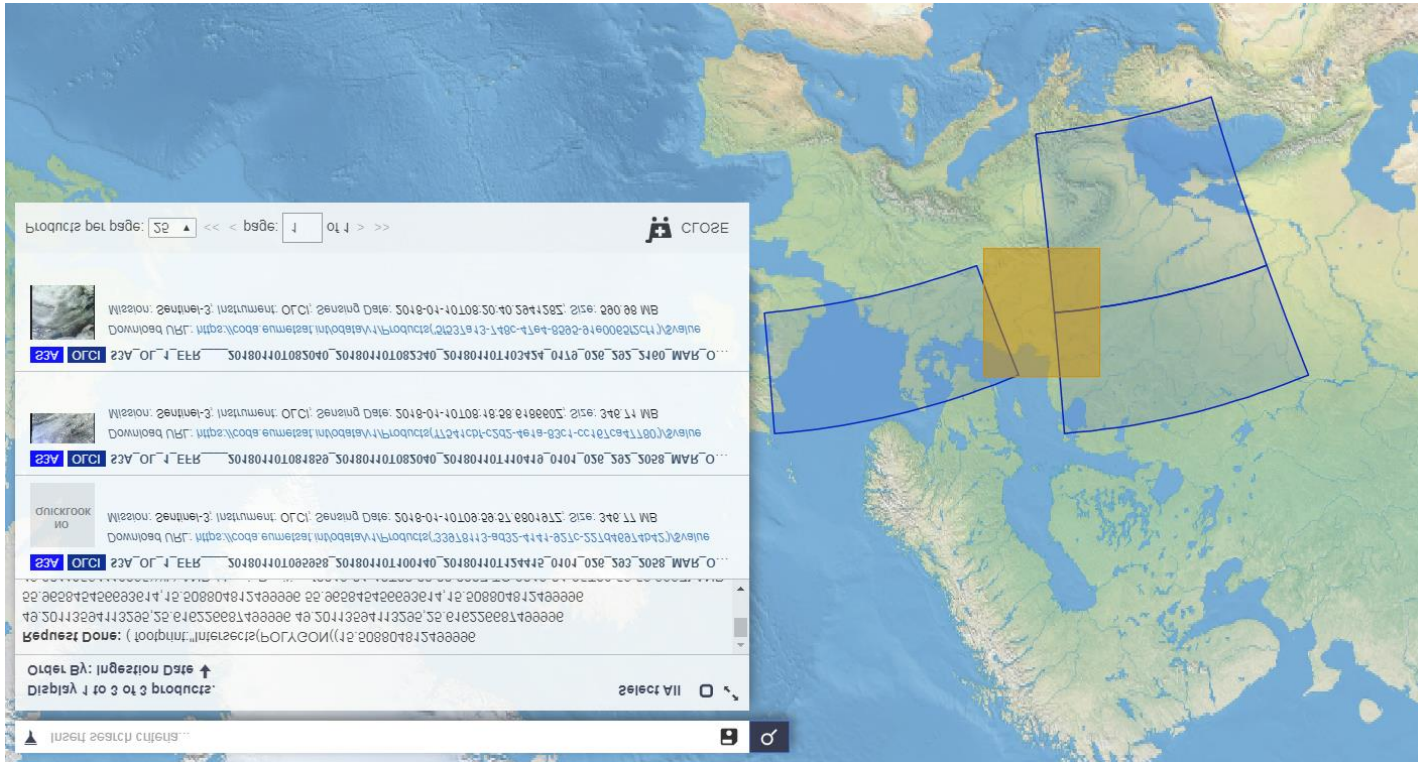
Wybór obszaru

Dobór kryteriów selekcji danych



Panel selekcji danych

Wybór obszaru



Wyświetlanie danych dostępnych dla zaznaczonego obszaru

Wybór obszaru - opcje

Insert search criteria...

Advanced Search Clear

» Sort By:
Ingestion Date

» Order By:
Descending

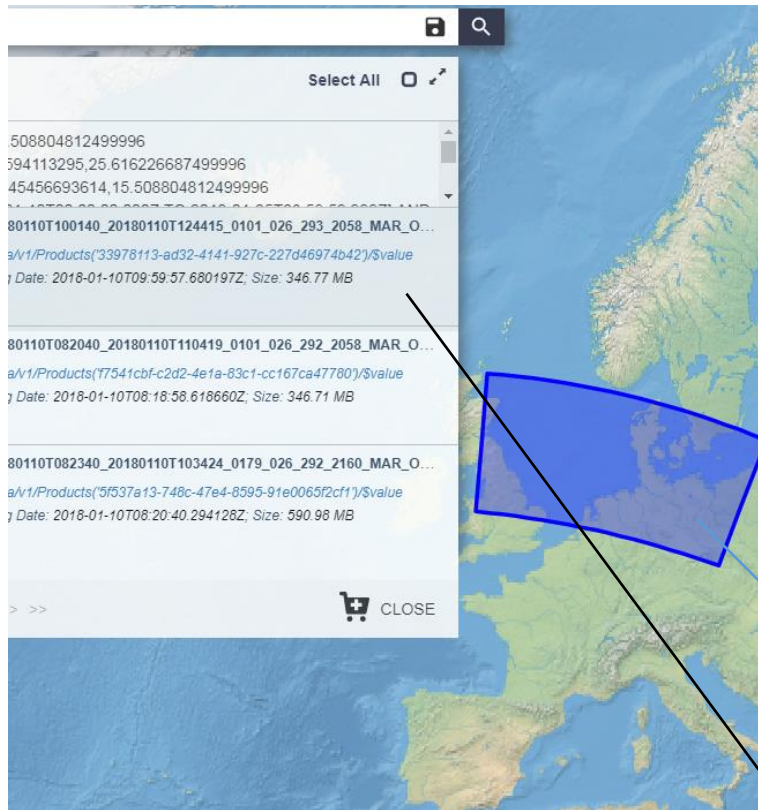
» Sensing period
From: _____
to: _____

» Ingestion period
From: _____

Typ produktu określa typ zbieranych danych

PRODUCT TYPE	LEVEL	DESCRIPTION	LINK TO EUMETSAT PRODUCT NAVIGATOR
OLCI (Ocean and Land Colour Instrument)			
OL_1_EFR__	Level 1	Full resolution top of atmosphere radiance.	- OLCI Level 1B Full Resolution in NTC - OLCI Level 1B Full Resolution in NRT
OL_1_ERR__	Level 1	Reduced resolution top of atmosphere radiance.	- OLCI Level 1B Reduced Resolution in NRT - OLCI Level 1B Reduced Resolution in NTC
OL_2_WFR__	Level 1	Full resolution water & atmosphere geophysical products.	- OLCI Ocean Colour Full Resolution in NRT - OLCI Ocean Colour Full Resolution in NTC
OL_2_WRR__	Level 2	Reduced resolution water & atmosphere geophysical products.	- OLCI Ocean Colour Reduced Resolution in NRT - OLCI Ocean Colour Reduced Resolution in NTC
SLSTR (Sea and Land Surface Temperature Radiometer)			
SL_1_RBT__	Level 1	Brightness temperature and radiances.	- SLSTR Level 1B Radiances and Brightness Temperatures in NRT - SLSTR Level 1B Radiances and Brightness Temperatures in NTC
SL_2_WST__	Level 2	Level 2P Sea Surface Temperature (GHRSSST like)	- SLSTR Sea Surface Temperatures (SST) in NRT - SLSTR Sea Surface Temperatures (SST) in NTC
SRAL (SAR Radar Altimeter)			
SR_1_SRA__	Level 1	Echos parameters for LRM, PLRM and SAR mode (resolution 20Hz).	- SRAL Level 1B in NRT - SRAL Level 1B in NTC - SRAL Level 1B in STC
SR_2_WAT__	Level 2	1-Hz and 20-Hz Ku and C bands parameters (LRM/SAR/PLRM), waveforms. Over Water.	- SRAL Altimetry Global in NRT - SRAL Altimetry Global in NTC - SRAL Altimetry Global in STC

Wybór pliku z danymi



- **Near RealTime NRT** – dane te są dostępne 3 godziny po zebraniu
- **1 month Short time critical STC** – dane dostępne 48 godzin po zebraniu
- **1 month Non time critical NTC** – dane dostępne miesiąc po zebraniu

Wybór produktu,
poprzez wskazanie
na liście, lub mapie

Podgląd informacji o pliku danych

S3A_OL_1_EFR____20180110T095958_20180110T100140_20180110T124415_0101_026_293_2058_MAR_O_NR_002

Display 1 to 3 of 3 products
Order By: Ingestion Date

Request Done: (footprint: 49.20113594113295, 25.6155, 9658.45456683614, 15.5

S3A OLCI S3A_OL_1_EFR
Download URL
Mission: Sentinel-3


S3A OLCI S3A_OL_1_EFR
Download URL
Mission: Sentinel-3

S3A OLCI S3A_OL_1_EFR
Download URL
Mission: Sentinel-3

Products per page 25

https://coda.eumetsat.int/odata/v1/Products("33978113-ad32-4141-927c-227d46974b42")\$value

Footprint



Attributes

Summary

Date: 2018-01-10T09:59:57.680197Z
Instrument: OLCI
Mode: EO
Satellite: Sentinel-3
Size: 346.77 MB

Quicklook

Inspector

S3A_OL_1_EFR____20180110T095958_2058_MAR_O_NR_002 SEN3

- Oa01_radiance.nc
- Oa02_radiance.nc
- Oa03_radiance.nc
- Oa04_radiance.nc
- Oa05_radiance.nc
- Oa06_radiance.nc
- Oa07_radiance.nc
- Oa08_radiance.nc
- Oa09_radiance.nc
- Oa10_radiance.nc
- Oa11_radiance.nc
- Oa12_radiance.nc
- Oa13_radiance.nc
- Oa14_radiance.nc

Podgląd informacji o pliku danych cd

^ Attributes

Summary

Date: 2018-01-02T10:07:41.711759Z

Instrument: OLCI

Mode: EO

Satellite: Sentinel-3

Size: 700.65 MB

Product

Baseline Collection: 002

Bright Cover Percentage (%): 57.392312

Coastal Cover Percentage (%): 0.000000

Creation Date: 2018-01-02T00:31:37.000Z

Cycle number: 26

ECMWF Type: FORECAST

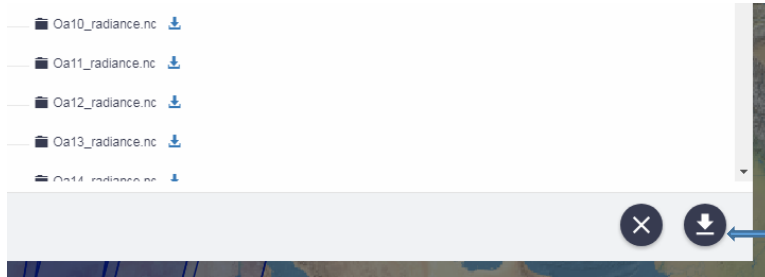
Footprint: <gml:Polygon srsName="http://www.opengis.net/gml/srs/epsg.xml#4326" xmlns:gml="http://www.opengis.net/gml"> <gml:outerBoundaryIs> <gml:LinearRing> <gml:coordinates>-70.0419,-132.888 -70.5751,-133.829 -71.1082,-134.789 -71.636,-135.804 -72.1581,-136.875 -72.674,-138.009 -73.1831,-139.21 -73.6844,-140.48 -74.1781,-141.831 -74.6628,-143.266 -75.1397,-144.784 -75.6039,-146.407 -76.0562,-148.134 -76.4939,-149.977 -76.9191,-151.934 -77.3281,-154.017 -77.7201,-156.231 -78.0944,-158.592 -78.4469,-161.094 -78.785,-163.724 -79.8544,-160.04 -81.3016,-153.287 -82.5931,-144.111 -83.6336,-131.615 -84.2843,-115.405 -84.4078,-96.9134 -83.9713,-79.3995 -83.08,-65.275 -81.8828,-54.7701 -80.4939,-47.0773 -78.9849,-41.3518 -77.4002,-36.9776 -75.7652,-33.5382 -74.0924,-30.766 -72.3949,-28.478 -70.6784,-26.5518 -68.9472,-24.9017 -67.2059,-23.4649 -65.4538,-22.1988 -63.6953,-21.0681 -61.9304,-20.0484 -60.1605,-19.12 -58.3857,-18.268 -56.6069,-17.4792 -54.825,-16.7445 -53.0401,-16.0561 -51.2522,-15.4071 -49.4617,-14.7924 -47.6696,-14.2071 -45.8747,-13.6478 -44.0778,-13.111 -42.2792,-12.5941 -40.4792,-12.0948 -38.6773,-11.6104 -36.8738,-11.1398 -35.0683,-10.6815 -33.2631,-10.233 34.4556,0.79981 35.0155,0.000000 -27.8364,-8.93975 -26.0055,-

^ Inspector

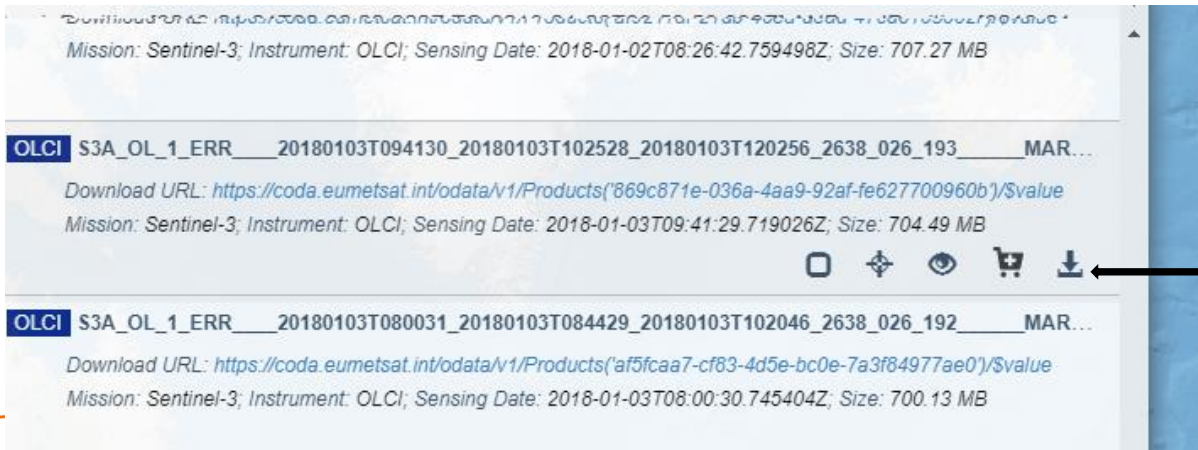
S3A_OL_1_ERR____20180102T10074...179____MAR_O_NR_002.SEN3

- Oa01_radiance.nc [↓](#)
- Oa02_radiance.nc [↓](#)
- Oa03_radiance.nc [↓](#)
- Oa04_radiance.nc [↓](#)
- Oa05_radiance.nc [↓](#)
- Oa06_radiance.nc [↓](#)
- Oa07_radiance.nc [↓](#)
- Oa08_radiance.nc [↓](#)
- Oa09_radiance.nc [↓](#)
- **root**
 - dimensions
 - attributes
 - variables
 - dataset
- Oa10_radiance.nc [↓](#)
- Oa11_radiance.nc [↓](#)

Pobranie danych



Z okna podglądu



Z listy plików danych

Wizualizacja danych – aplikacja SNAP

step
science toolbox exploitation platform

Navigation: STEP, TOOLBOXES, **DOWNLOAD**, GALLERY, DOCUMENTATION, COMMUNITY, THIRD PARTY PLUGINS

Search: Search...

Home > Download

Download

Here you can download the latest installers for SNAP and the Sentinel Toolboxes.

Data provision is available to all users via the [Sentinel Data Hub](#).

Important note: While the current official version is still SNAP 5.0, the new SNAP 6.0 beta release is available to be downloaded and tested at your own risk. The beta version is not fully tested, but it contains new features and fixes to many issues found in SNAP 5.0. The SNAP 6.0 beta release is provided "as is" and is not supported, but we are interested in your feedback and bug reports and intend to fix the reported bugs in the SNAP 6.0 official version. The details and download links for SNAP 5.0 and SNAP 6.0 beta are below.

Current Version

The current version is **5.0.0** (05.12.2016 14:40).

For detailed information about changes made for this release please have a look at the release notes of the different projects: [SNAP](#), [S1TBX](#), [S2TBX](#), [S3TBX](#), [SMOS Box](#), [PROBA-V Toolbox](#)

We offer three different installers for your convenience. Choose the one from the following table which suits your needs. During the installation process, each toolbox can be excluded from the installation. Toolboxes which are not initially installed via the installer can be later downloaded and installed using the plugin manager. Please note that SNAP and the individual Sentinel Toolboxes also support numerous sensors other than Sentinel.

	Windows 64-Bit	Windows 32-Bit	Mac OS X	Unix 64-bit
Sentinel Toolboxes	These installers contain the Sentinel-1 , Sentinel-2 , Sentinel-3 Toolboxes			
	Download	Download	Download	Download
SMOS Toolbox	These installer contains only the SMOS Toolbox . Download also the Format Conversion Tool (Earth Explorer to NetCDF) and the user manual .			
	Download	Download	Download	Download
All Toolboxes	These installers contain the Sentinel-1 , Sentinel-2 , Sentinel-3 Toolboxes, SMOS and PROBA-V Toolbox			
	Download	Download	Download	Download

- dane zapisane na dysk możemy obsługiwać np. dedykowaną aplikacją [Sentinel Application Platform](#) (SNAP)

- Aplikację można pobrać pod adresem

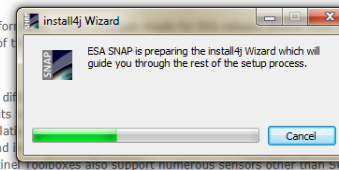
<http://step.esa.int/main/toolboxes/snap/>

Current Version

The current version is **5.0.0** (05.12.2016 14:40).

For detailed information about changes made for this release please have a look at the release notes of the different projects: [SNAP](#), [S1TBX](#), [S2TBX](#), [S3TBX](#), [SMOS Box](#), [PROBA-V Toolbox](#)

We offer three different installers for your convenience. Choose the one from the following table which suits your needs. During the installation process, each toolbox can be excluded from the installation. Toolboxes which are not initially installed via the installer can be later downloaded and installed using the plugin manager. Please note that SNAP and the individual Sentinel Toolboxes also support numerous sensors other than Sentinel.



	Windows 64-Bit	Windows 32-Bit	Mac OS X	Unix 64-bit
Sentinel Toolboxes	These installers contain the Sentinel-1 , Sentinel-2 , Sentinel-3 Toolboxes			
	Download	Download	Download	Download
SMOS Toolbox	These installer contains only the SMOS Toolbox . Download also the Format Conversion Tool (Earth Explorer to NetCDF) and the user manual .			
	Download	Download	Download	Download
All Toolboxes	These installers contain the Sentinel-1 , Sentinel-2 , Sentinel-3 Toolboxes, SMOS and PROBA-V Toolbox			
	Download	Download	Download	Download

Aplikacja SNAP

The screenshot displays the SNAP documentation website interface. At the top, there is a navigation menu with tabs for STEP, TOOLBOXES, DOWNLOAD, GALLERY, DOCUMENTATION, COMMUNITY, and THIRD PARTY PLUGINS. Below the menu, a search bar is visible. The main content area is titled 'Tutorials' and lists various tutorial categories: SNAP (General toolbox usage), SENTINEL-1 TOOLBOX (SAR applications), SENTINEL-2 TOOLBOX (High resolution optical applications), SENTINEL-3 TOOLBOX (Medium resolution optical applications), ESA TRAINING COURSES (ESA Training Courses), EXTERNAL RESOURCES (External Resources), and ALL (All tutorials). The 'SENTINEL-3 TOOLBOX' is currently selected, and a search for '3 tutorials found' is shown. Below this, a list of tutorials is displayed, including 'Introduction to Sentinel-3 Toolbox' (June 1, 2015) and 'Sentinel-3 Fact Sheet' (March 1, 2017). The page also features a sidebar with navigation links and a 'SURVEY' button.

- Dokumentacja do aplikacji dostępna jest pod adresem
- <http://step.esa.int/main/toolboxes/snap/>

Aplikacja SNAP

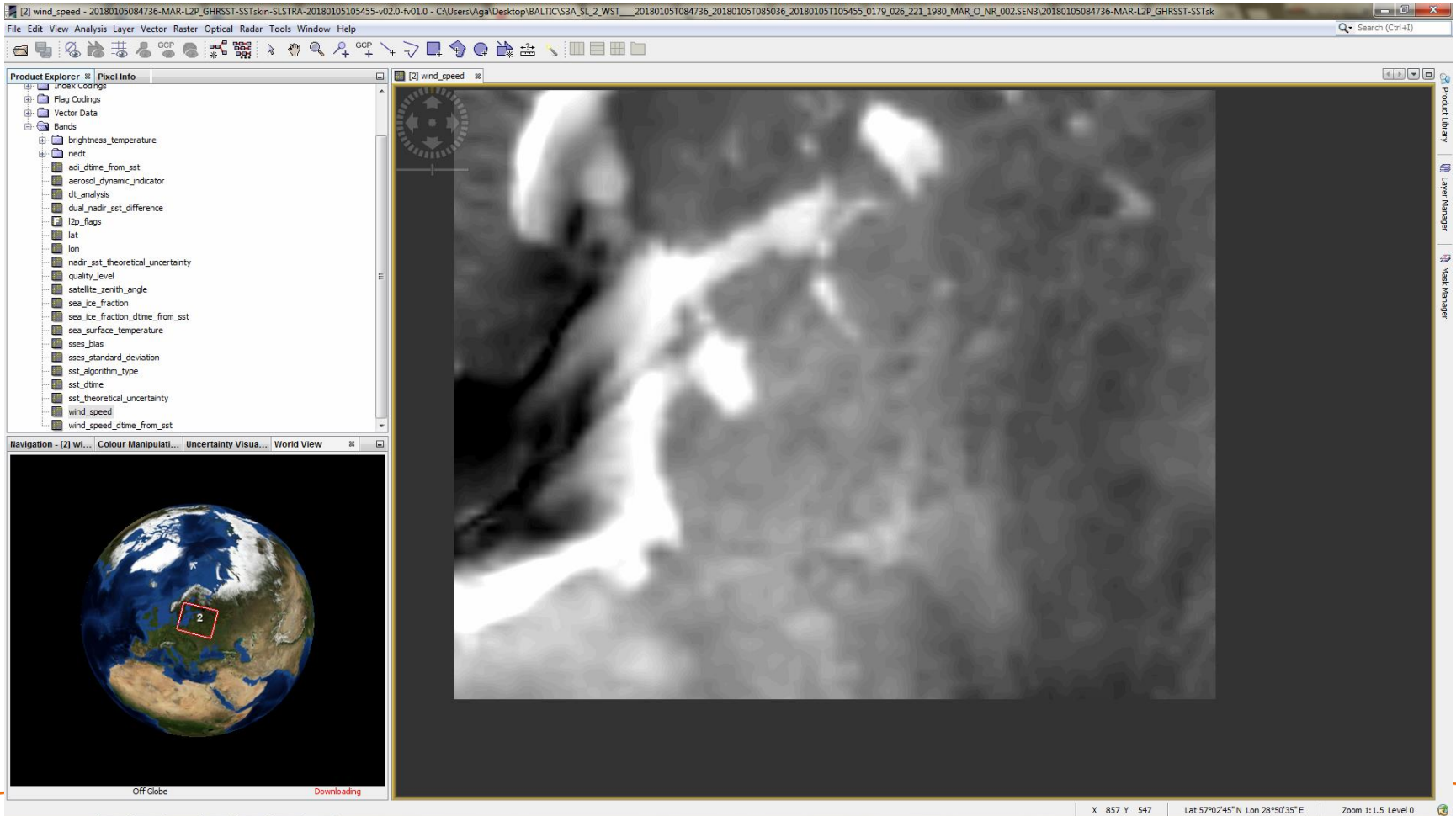
Umożliwia operacje na pobranych plikach danych

The screenshot shows the SNAP software interface with the following components:

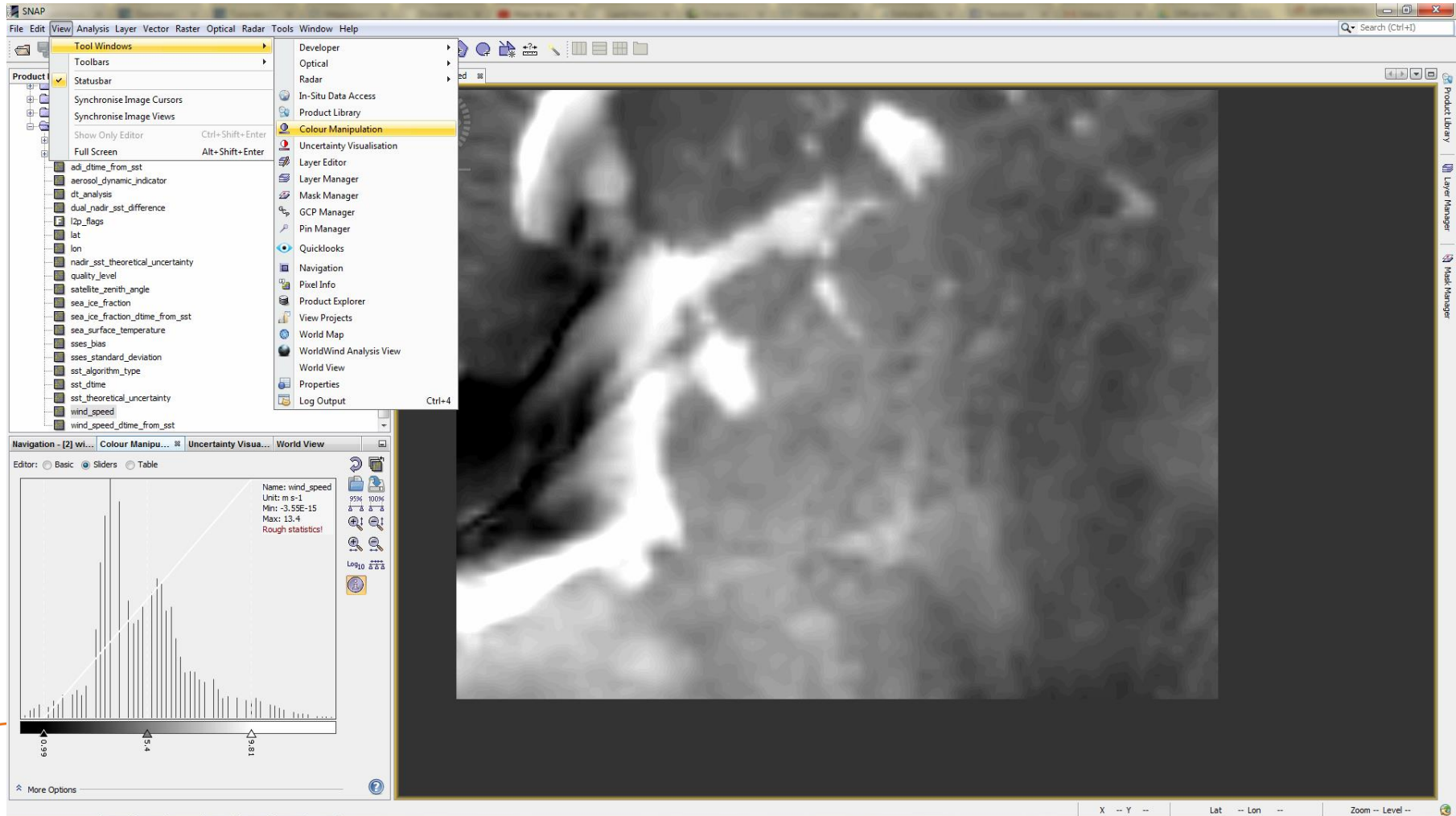
- Product Explorer:** A tree view on the left showing dataset attributes. The 'quality_level' attribute is selected.
- World View:** A globe showing Earth with a scale bar of 2000 Km. The status 'Off Globe' and 'Downloading' is visible at the bottom.
- Metadata Table:** A table displaying the metadata for the selected 'quality_level' dataset. The table has the following columns: Name, Value, Type, Unit, and Description.

Name	Value	Type	Unit	Description
comment	Quality levels used for all GHRST SST data	ascii		
coordinates	lon lat	ascii		
flag_meanings.0	no_data	ascii		
flag_meanings.1	cloud	ascii		
flag_meanings.2	worst_quality	ascii		
flag_meanings.3	low_quality	ascii		
flag_meanings.4	acceptable_quality	ascii		
flag_meanings.5	best_quality	ascii		
flag_values.1	0	int8		
flag_values.2	1	int8		
flag_values.3	2	int8		
flag_values.4	3	int8		
flag_values.5	4	int8		
flag_values.6	5	int8		
long_name	SST measurement quality indicator	ascii		
_ChunkSize.1	1	int32		
_ChunkSize.2	1200	int32		
_ChunkSize.3	1500	int32		

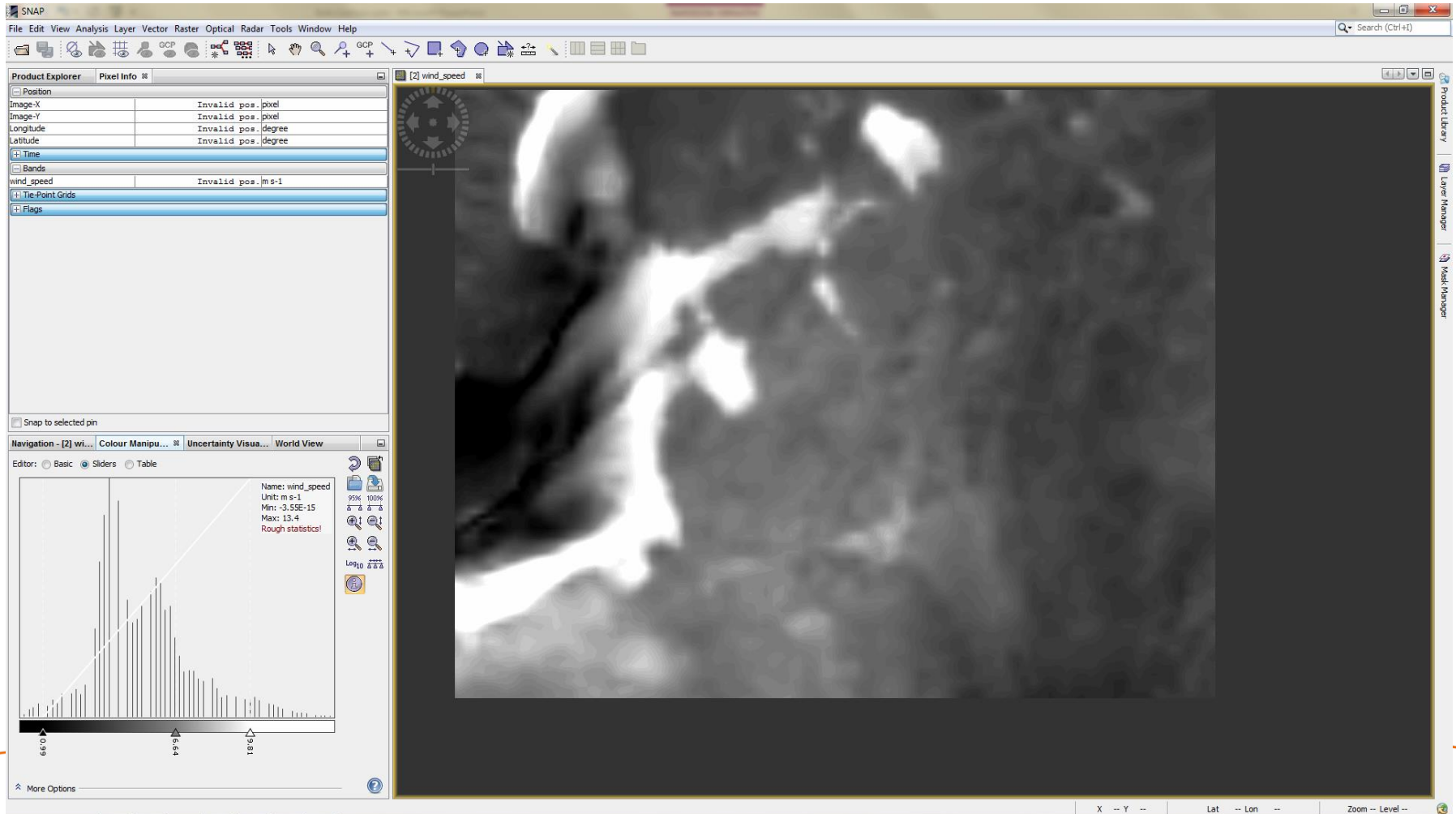
Wizualizacja danych



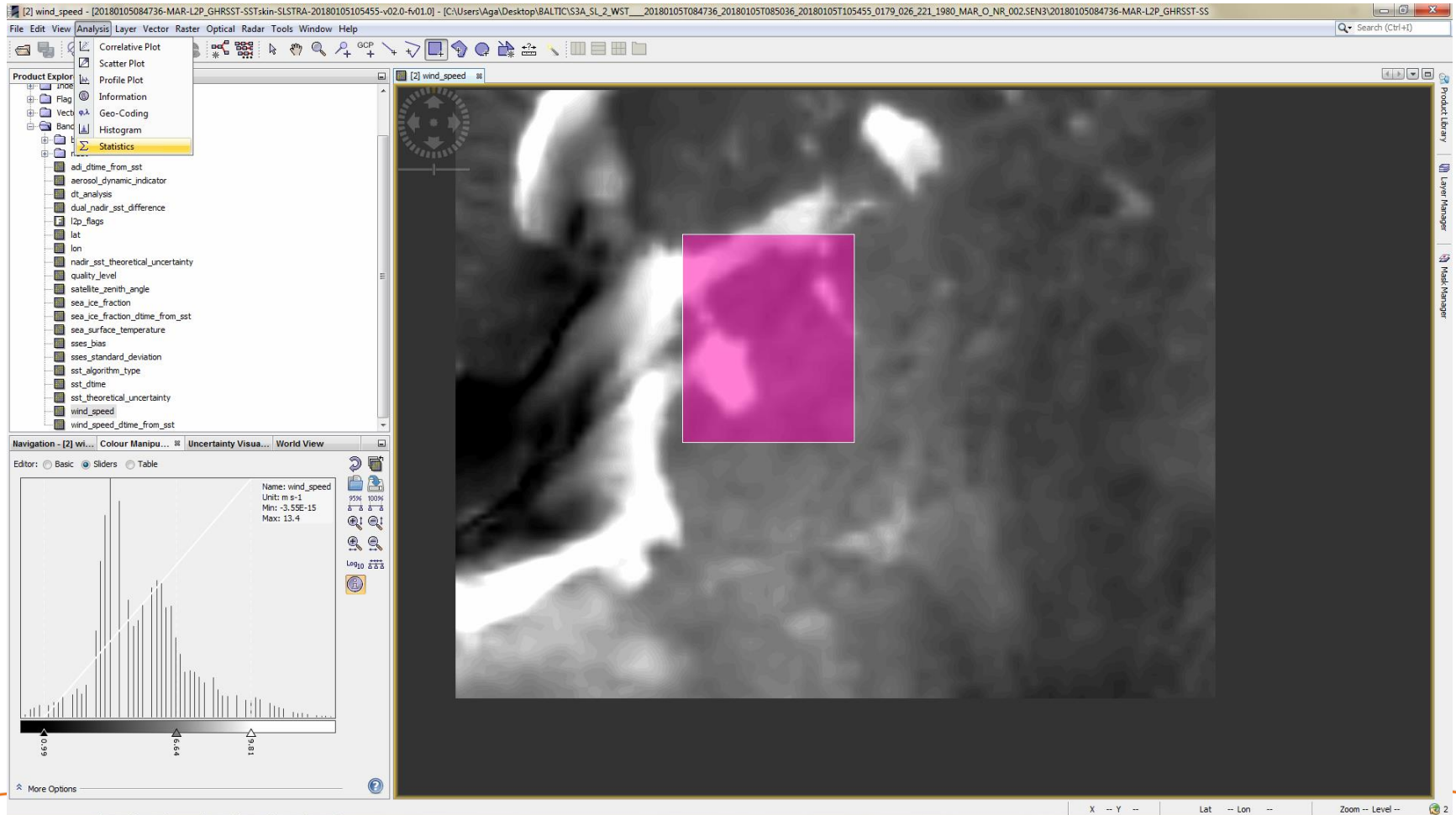
Wizualizacja danych



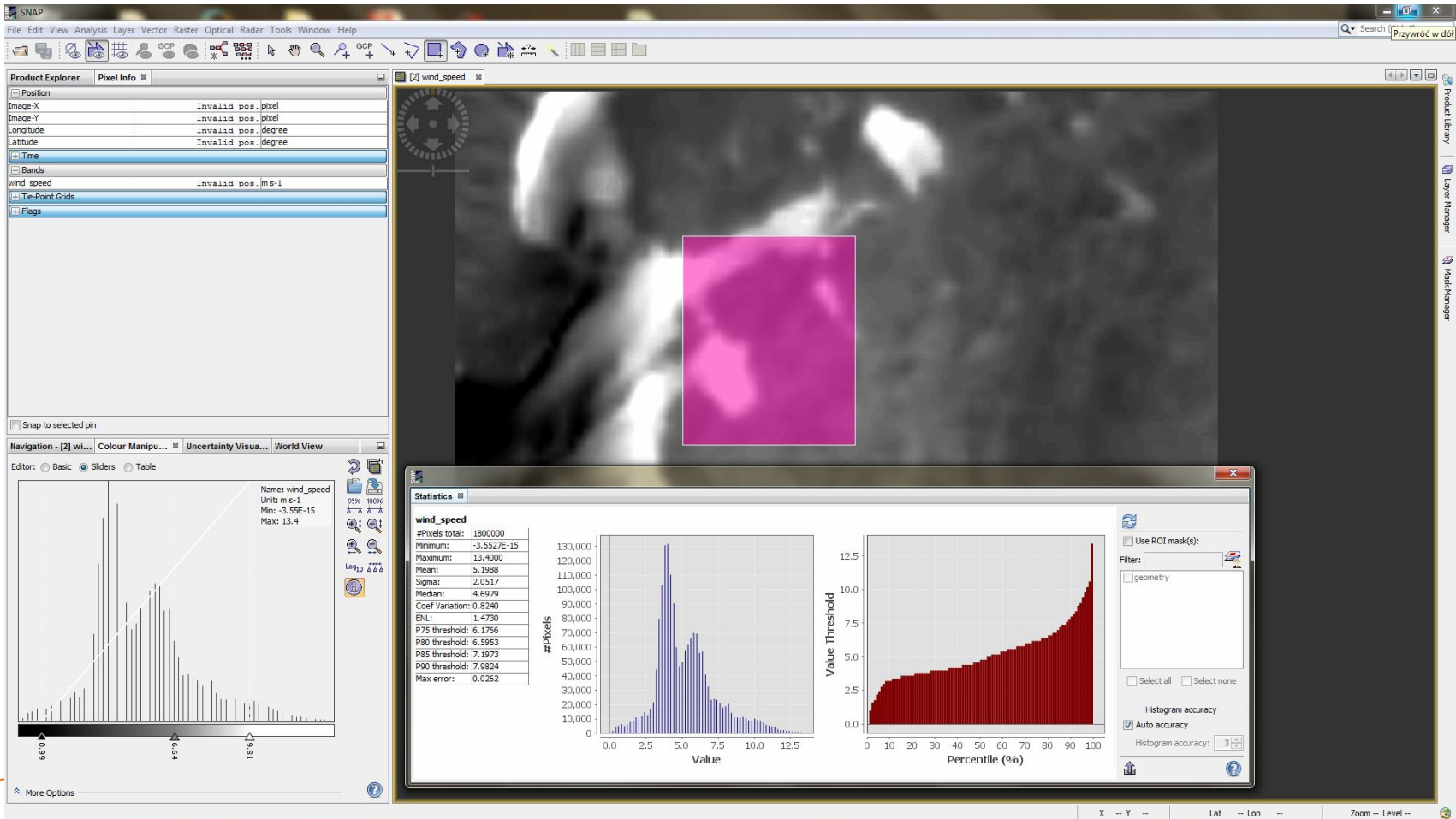
Wizualizacja danych



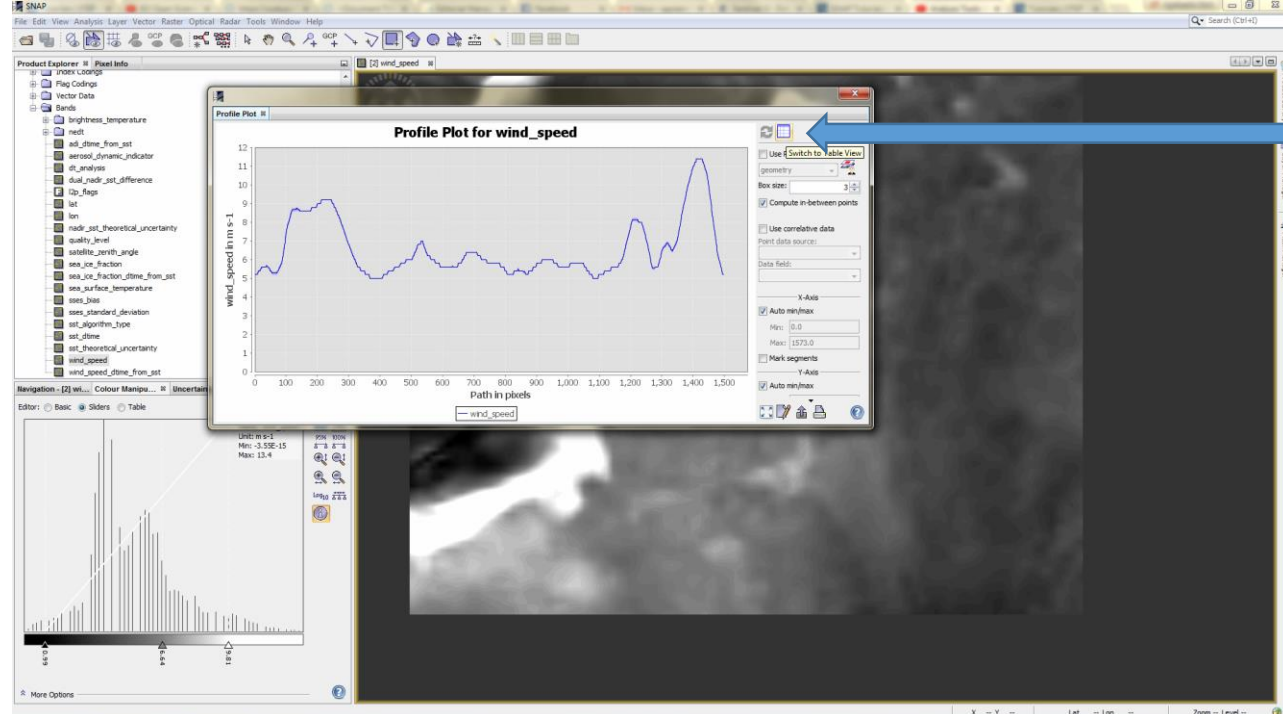
Analiza danych, statystyki



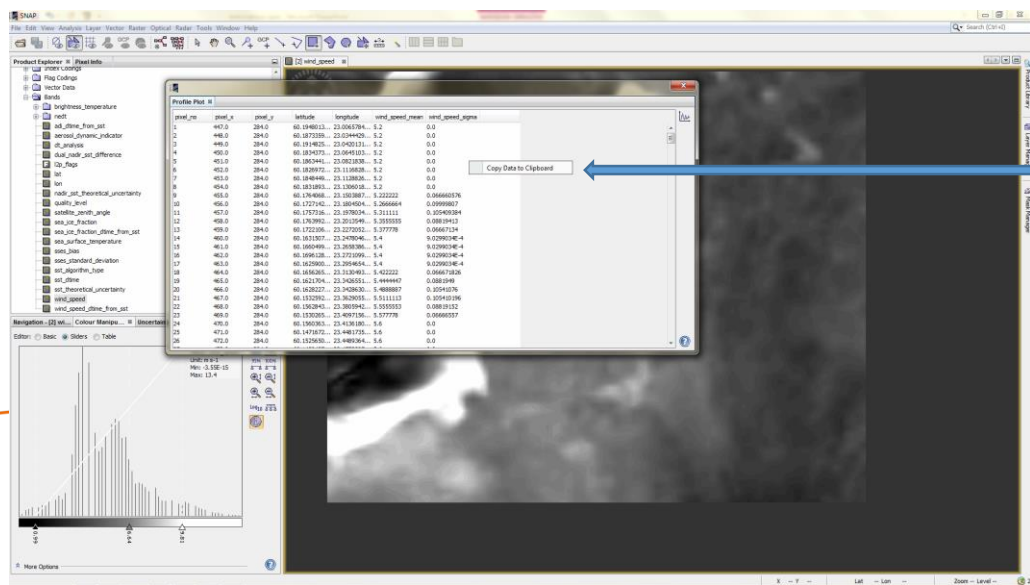
Analiza danych, statystyki



Widok tablicowy danych

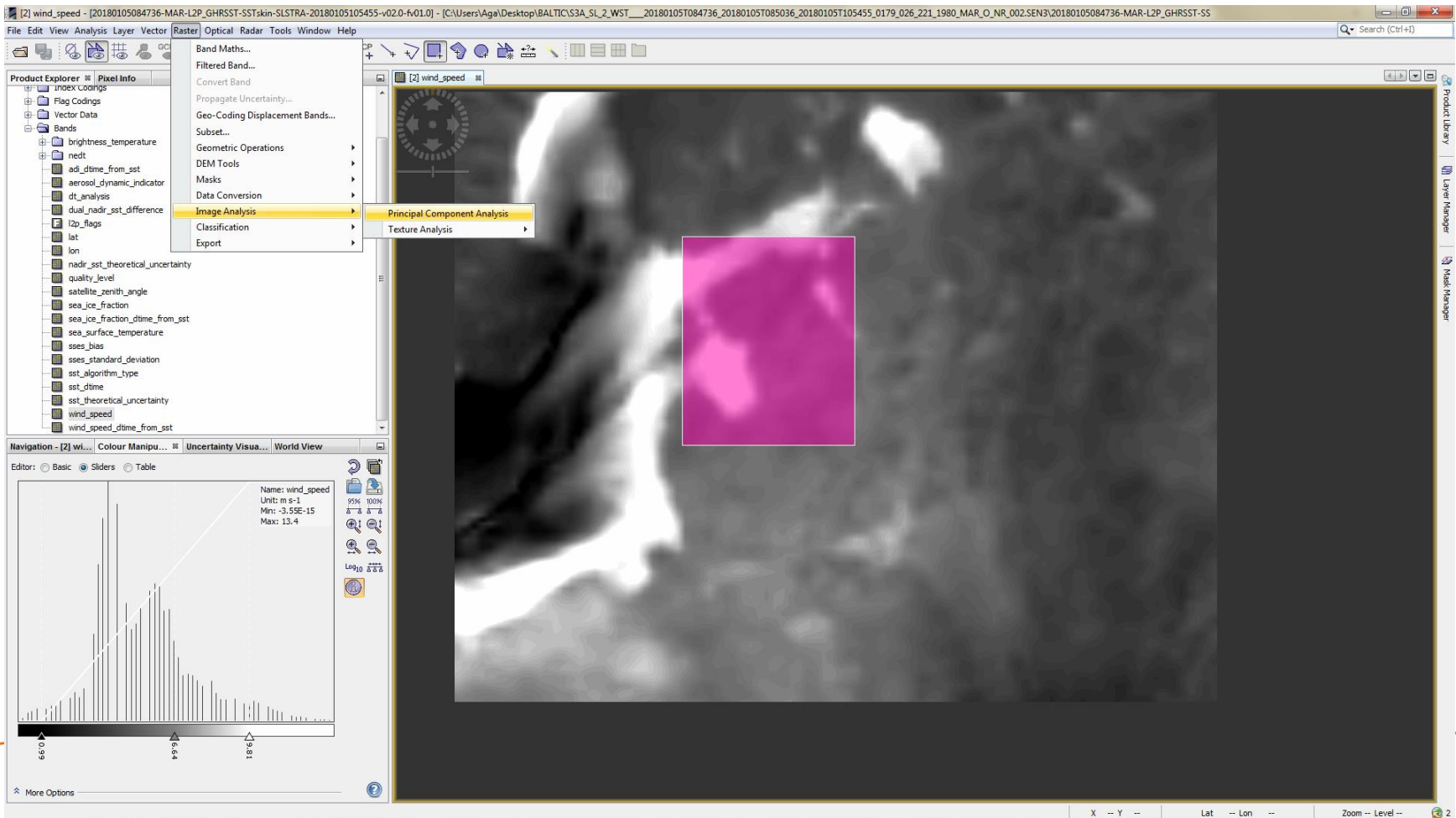


Zapis tabeli danych



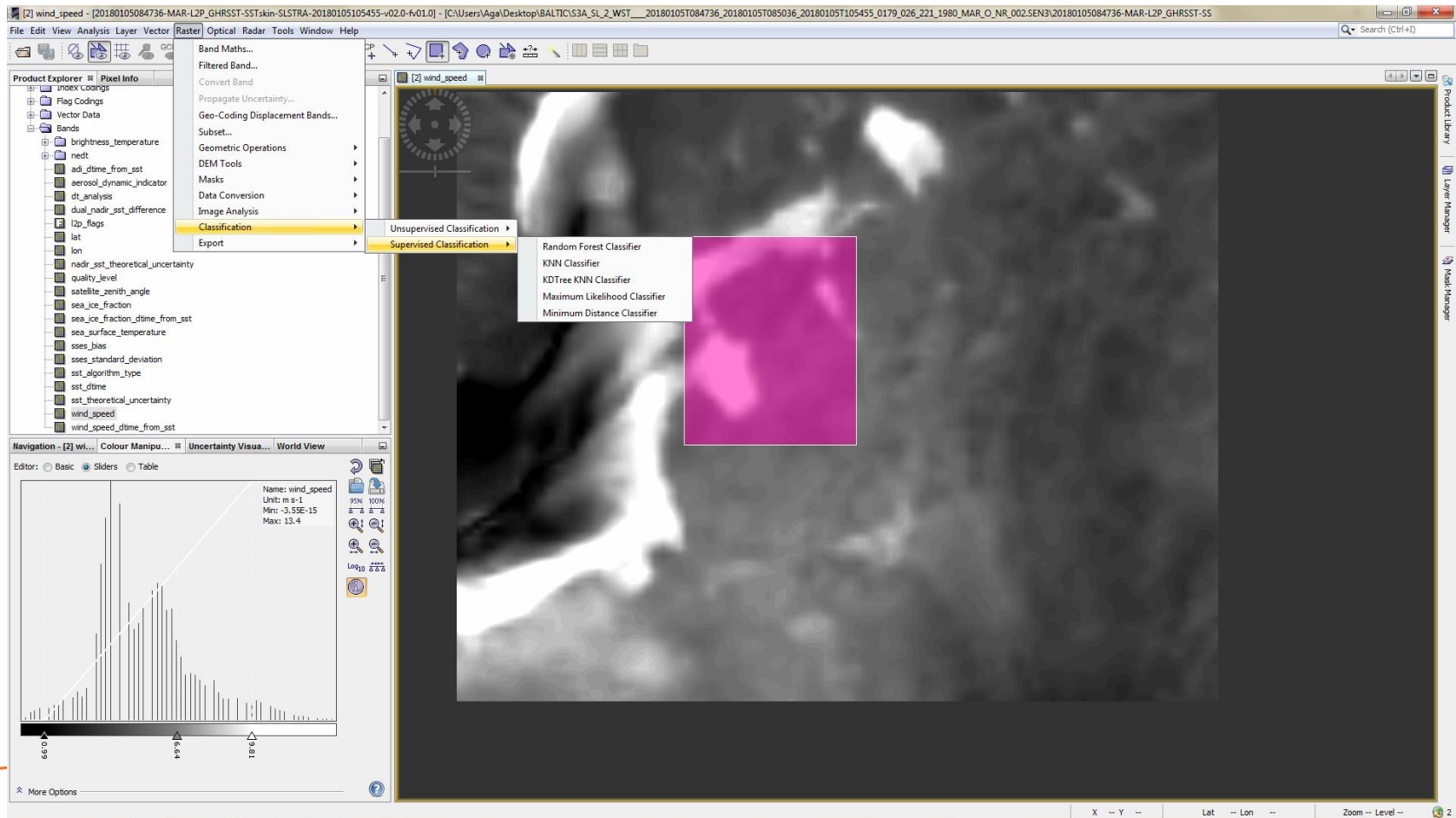
Analiza danych

Aplikacja oferuje analizę obrazów reprezentujących dane



Analiza danych

Oraz Min. Klasyfikację w oparciu o metody sztucznej inteligencji, nadzorowane oraz nienadzorowane



Ekspert danych, dalsze możliwości

The screenshot displays the SNAP (Software for Non-destructive Analysis) interface. The main window shows a grayscale satellite image of a coastal region. A red rectangular selection box is overlaid on the image, and a context menu is open over it, listing options: 'Extract Pixel Values', 'Mask Pixels', 'Transect Pixels', and 'Pixel-Info to Clipboard'. The 'Export' option is highlighted in the main menu.

The left sidebar contains the 'Product Explorer' and 'Pixel Info' panels. The 'Product Explorer' shows a tree view of data products, including 'brightness_temperature', 'nedt', 'adi_dtime_from_sst', 'aerosol_dynamic_indicator', 'dt_analysis', 'dual_nadir_sst_difference', 'l2p_flags', 'lat', 'lon', 'nadir_sst_theoretical_uncertainty', 'quality_level', 'satellite_zenith_angle', 'sea_ice_fraction', 'sea_ice_fraction_dtime_from_sst', 'sea_surface_temperature', 'sses_bias', 'sses_standard_deviation', 'sst_algorithm_type', 'sst_dtime', 'sst_theoretical_uncertainty', 'wind_speed', and 'wind_speed_dtime_from_sst'. The 'Pixel Info' panel shows the selected product: 'wind_speed'.

The bottom-left panel shows a histogram of the 'wind_speed' data. The histogram title is 'Name: wind_speed' and 'Unit: m s⁻¹'. The x-axis is labeled 'Value' and ranges from 0 to 15. The y-axis is labeled 'Count' and ranges from 0 to 100. The histogram shows a distribution of wind speed values, with a peak around 10 m s⁻¹. The maximum value is 13.4.

The bottom-right panel shows the 'Navigation' and 'World View' panels. The 'Navigation' panel has tabs for 'Basic', 'Sliders', and 'Table'. The 'World View' panel shows a map of the selected area with a red rectangular selection box. The map is titled '[2] wind_speed'.

Eksport danych w postaci numerycznej

The screenshot displays a software application window titled "[2] wind_speed - [20180105084736-MAR-L2P_GHRSSST-SSTskin-SLSTRA-20180105105455-v02.0-fv01.0]". The main window shows a grayscale satellite image of a coastal region. A red rectangular box highlights a specific area on the image. The "File" menu is open, and the "Export" option is selected, leading to a sub-menu with the following options:

- Other
- SAR Formats
- GeoTIFF / BigTIFF
- CSV
- BEAM-DIMAP
- ENVI
- GeoTIFF
- HDF5
- NetCDF4-BEAM
- NetCDF4-CF
- NetCDF-BEAM
- NetCDF-CF

In the bottom-left corner, there is a histogram titled "Name: wind_speed" with the following statistics:

- Unit: m s⁻¹
- Mini: -3.59E-15
- Max: 13.4

The histogram shows a distribution of wind speed values, with a peak around 10 m s⁻¹. The x-axis is labeled with values 0.99, 5.64, and 10.1. The y-axis represents frequency. The interface also includes a navigation panel on the left with options like "Open Product...", "Product Library", and "Export". The bottom status bar shows "X -- Y --", "Lat -- Lon --", and "Zoom -- Level --".

Ekspert danych w postaci pliku graficznego

The screenshot displays a GIS application window titled "[2] wind_speed". The main view shows a grayscale map of a coastal region. A pink rectangular selection box is overlaid on the map. The "Export" menu is open, showing options for saving the data as an image or in various file formats. The "View as Image" option is highlighted.

Export Menu Options:

- Other
 - SAR Formats
 - GeoTIFF / BigTIFF
 - BEAM-DIMAP
 - ENVI
 - GeoTIFF
 - HDF5
 - NetCDF4-BEAM
 - NetCDF4-CF
 - NetCDF-BEAM
 - NetCDF-CF
- Colour Legend as Image
- Colour Palette as File
- Geo-Coding as ENVI GCP File
- Geometry as Shape file
- Mask Pixels
- Product Metadata
- Transect Pixels
- View as Image**
- View as Google Earth KMZ

Navigation Panel (Bottom Left):

- Editor: Basic, Sliders, Table
- Name: wind_speed
- Unit: m s⁻¹
- Min: -3.55E-15
- Max: 13.4
- Log10
- More Options

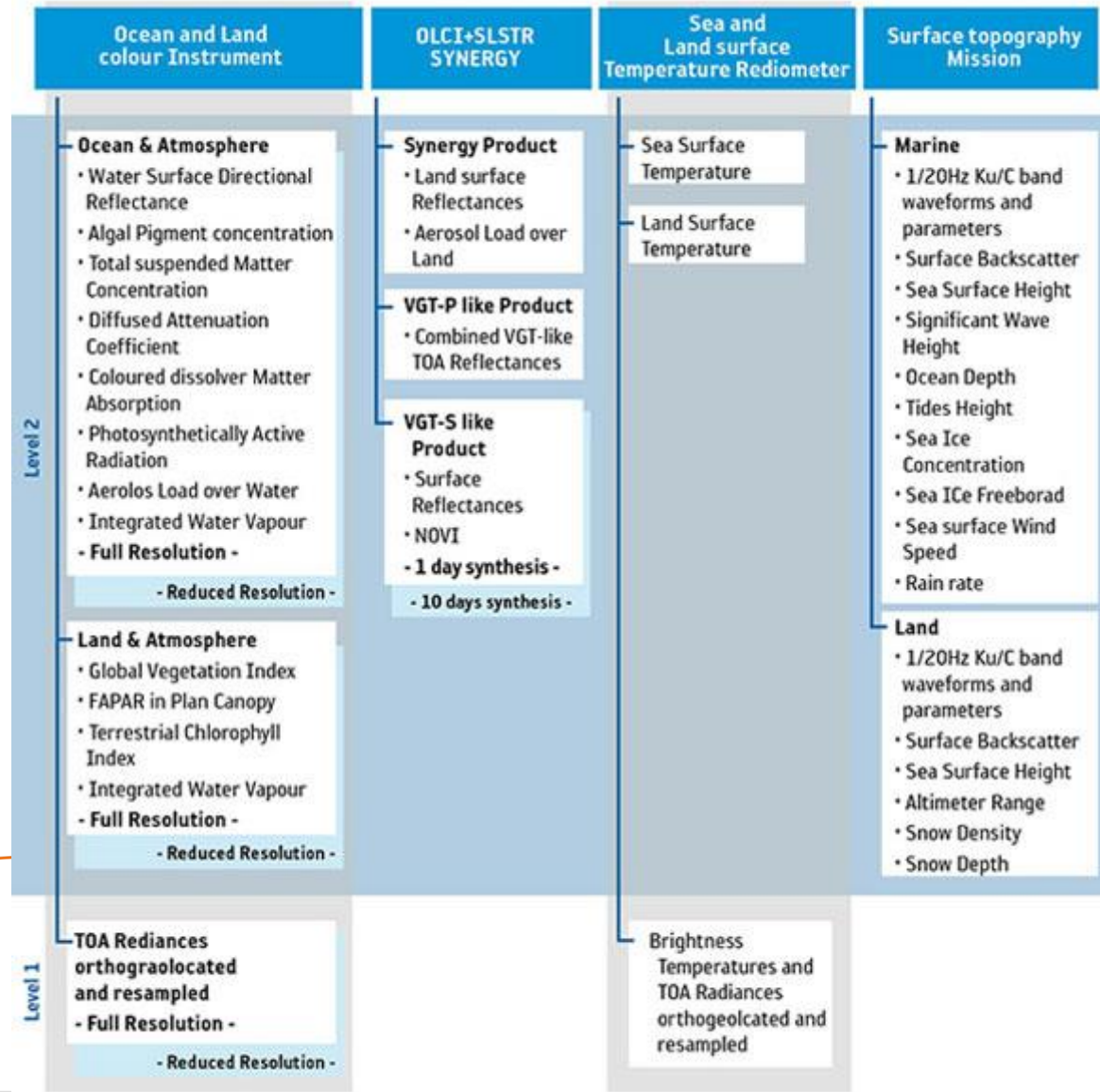
Warunki dostępu do danych

The screenshot shows the EUMETSAT website homepage. At the top left is the EUMETSAT logo and the tagline 'MONITORING WEATHER AND CLIMATE FROM SPACE'. To the right is a search bar and a 'REGISTER/SIGN IN' link. Below this is a navigation menu with links for HOME, IMAGES, ABOUT US, SATELLITES, DATA, and NEWS, along with a 'QUICK LINKS' section. A 'WELCOME TO EUMETSAT' banner is followed by a large satellite image of Tropical Cyclone Irving. To the right of the image is a 'EUMETSAT FOR:' menu with options for EVERYONE, ACCESS OUR DATA, SEARCH OUR PRODUCTS, BROWSE OUR DOCUMENTS, VIEW TRAINING, MONITORING CLIMATE, SAFS, BASIC DOCUMENTS, BUSINESS WITH EUMETSAT, PRESS AND MEDIA, JOB SEEKERS, and YOUTH. Below this is a 'COPERNICUS' section with 'METEOALARM - WEATHER WARNINGS IN EUROPE'. At the bottom, there are three promotional boxes: 'EUMETSAT SCIENCE BLOG', 'THE EUMETSAT LEARNING ZONE', and 'METEOSAT MISSION SWAPS Q1 2018'.

- <https://www.eumetsat.int/website/home/index.html>
- Dane dostępne są bez konieczności wnoszenia opłat
- Wymagane jest jedynie założenie konta użytkownika systemu
- <https://www.eumetsat.int/website/home/Data/DataDelivery/DataRegistration/index.html>

Dane dostarczane z Sentinela3

Podział na kategorie



Podział na poziomy

<http://www.copernicus.eu/main/application-domains>

Zakres zastosowań danych z projektu Copernicus

Copernicus
Europe's eyes on Earth

Home > [What is Copernicus?](#) > Application Domains

Application Domains

European citizens, ranging from policy makers, researchers, commercial to private users, as well as the global scientific community can benefit in many ways from the information provided by the different [Copernicus services](#).

Copernicus supports applications in a wide variety of domains.

These include urban area management, sustainable development and nature protection, regional and local planning, agriculture, forestry and fisheries, health, emergency management, infrastructure, transport and mobility, tourism, as well as renewable energies.

This section illustrates with concrete examples the benefits that Copernicus can bring to users in these various domains. Concrete examples are also available through a series of [Copernicus Briefs](#) produced by ESA.

Agriculture, Forestry & Fisheries	Biodiversity & Environmental Protection	Climate & Energy
Civil Protection & Humanitarian Aid	Public Health	Tourism
Transport & Safety	Urban & Regional Planning	Copernicus

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

Dane dotyczące atmosfery

Copernicus Atmosphere Monitoring Service

Search

HOME ABOUT PRODUCTS DATA TOOLS EVENTS NEWS & MEDIA TENDERS HELP & CONTACT

Global surface forecasts
Live Map

CATALOGUE

NEWS

Meteorological Society
Meeting, Austin, 7-11 January 2018

Copernicus Services at the
Annual Meeting

READ MORE

REACTIVE GASES
Forecast Map of Composition Integrated
Forecasting System (C-IFS)

19 Dec 2018
Help us e
designs f

18 Dec 2018
Farewell
scientist

18 Dec 2018
Copernic
Monitoring
airing at


<http://marine.copernicus.eu/>


Dane dotyczące obszarów morskich

The screenshot displays the Copernicus Marine Environment Monitoring Service (CMEMS) website. The header features the logo and the text "COPERNICUS MARINE ENVIRONMENT MONITORING SERVICE" with the tagline "Providing PRODUCTS and SERVICES for all marine applications". A search bar is located in the top right corner. Below the header, there is a navigation menu with categories: "MARKETS & BENEFITS", "NEWS", "SCIENCE & MONITORING", "TRAINING & EDUCATION", and "SERVICES PORTFOLIO". A "FIRST VISIT?" button is visible. The main content area includes a "GLOBAL OCEAN INFORMATION" section with a "FIRST VISIT?" button and a list of regional coverage options: "GLOBAL OCEAN", "ARCTIC OCEAN", "BALTIC SEA", "EUROPEAN NORTH WEST SHELF SEAS", "IBERIA-BISCAY-IRELAND REGIONAL SEAS", "MEDITERRANEAN SEA", and "BLACK SEA". A date stamp "2018 11 JAN." is present. On the right side, there is a "SHORT-CUT TO SERVICE" menu with links: "REGISTER NOW!", "SCIENTIFIC QUALITY", "ONLINE TUTORIALS", "COLLABORATIVE FORUM", and "LATEST NEWS". Below this, there is a news snippet titled "CMEMS-7163" with the text "Maintenance on SE WIND products planned for 12/01/2018 from 11:00 UTC INFORMATION" and an "ALL NEWS" button. At the bottom, there are sections for "PARTNERS AND STAKEHOLDERS" and "TRAINING".

<https://land.copernicus.eu/pan-european>

Pomiary dotyczące łądu





Land Monitoring Service

[Site Map](#) | [About](#) | [Contact us](#) | [Log in](#) | [Register](#)

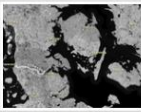
Ask the service desk

Search 🔍


🏠 Global Pan-European Local Reference data FAQ
📱 📷 🐦 🗨️

📍 You are here: [Home](#) / [Pan-European](#)

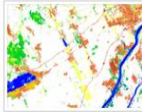
Pan-European 🖨️ Print



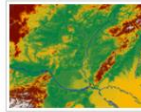
[Image Mosaics](#)




[CORINE Land Cover](#)



[High Resolution Layers](#)



[Reference Data](#)



[Related Pan-European products](#)

The pan-European component is coordinated by the European Environment Agency (EEA) and produces satellite image mosaics, land cover / land use (LC/LU) information in the CORINE Land Cover data, and the High Resolution Layers.

The CORINE Land Cover is provided for 1990, 2000, 2006 and 2012. This vector-based dataset includes 44 land cover and land use classes. The time-series also includes a land-change layer, highlighting changes in land cover and land-use. The high-resolution layers (HRL) are raster-based datasets which provides information about different land cover characteristics and is complementary to land-cover mapping (e.g. CORINE) datasets.

Five HRLs describe some of the main land cover characteristics: impervious (sealed) surfaces (e.g. roads and built up areas), forest areas, (semi-) natural grasslands, wetlands, and permanent water bodies. The High-Resolution Image Mosaic is a seamless pan-European ortho-rectified raster mosaic based on satellite imagery covering 39 countries.

[📖 Read more](#)

User corner

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- [🗨️ Ask the service desk](#)
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- [📖 Publications](#)
- [📖 Technical library](#)

<http://climate.copernicus.eu/>

Zmiany klimatyczne

The screenshot shows the homepage of the Copernicus Climate Change Service website. At the top, there are logos for Copernicus (Europe's eyes on Earth) and the Climate Change Service. To the right, there are social media icons for Twitter, Instagram, and Facebook, along with a 'Contact us' button. Below the logos is a search bar with a 'Search' button. A dark red navigation bar contains the following menu items: Home, ABOUT C3S, NEWS & MEDIA, EVENTS, TENDERS, PRODUCTS, SERVICES, and HELP & SUPPORT. The main banner features a collage of images: a cracked, dry landscape, a city skyline, a busy port with shipping containers, and a coastal town. Overlaid on this banner is the text 'CLIMATE INFORMATION FOR YOUR PLANNING'. Below the banner, the page is organized into three columns: 'IN FOCUS', 'MONTHLY MAPS & CHARTS', and 'NEWS'. The 'IN FOCUS' section highlights the 'American Meteorological Society 98th Annual Meeting, Austin, 7-11 January 2018' with a 'READ MORE' button. The 'MONTHLY MAPS & CHARTS' section features a graphic with globes and charts, titled 'Monthly maps and charts of essential climate variables', with an 'ARCHIVE' button. The 'NEWS' section lists three recent updates: '19 Dec 2017 Help us evaluate new designs for our websites', '18 Dec 2017 Farewell to ECMWF scientist Adrian Simmons', and '13 Dec 2017 Users shaping new Climate Data Store', each with an 'ARCHIVE' button.

Copernicus
Europe's eyes on Earth

Climate Change Service

Contact us

Search

Search

ABOUT C3S NEWS & MEDIA EVENTS TENDERS PRODUCTS SERVICES HELP & SUPPORT

CLIMATE INFORMATION FOR YOUR PLANNING

IN FOCUS

American Meteorological Society
98th Annual Meeting, Austin, 7-11 January 2018

ECMWF Copernicus Services at the 2018 AMS Annual Meeting

07 Jan 2018

READ MORE

MONTHLY MAPS & CHARTS

2018/18

Monthly maps and charts of essential climate variables

ARCHIVE

NEWS

19 Dec 2017
Help us evaluate new designs for our websites

18 Dec 2017
Farewell to ECMWF scientist Adrian Simmons

13 Dec 2017
Users shaping new Climate Data Store

ARCHIVE

<http://emergency.copernicus.eu/>

Zarządzanie kryzysowe



COPERNICUS
Emergency Management Service

LATEST NEWS : 2017-12-14 | Copernicus Emergency Management Service Monitors the Impact of Floods in Northern Italy

Copernicus Emergency Management Service

Copernicus Emergency Management Service (Copernicus EMS) provides information for emergency response in relation to different types of disasters, including meteorological hazards, geophysical hazards, deliberate and accidental man-made disasters and other humanitarian disasters as well as prevention, preparedness, response and recovery activities. Three modules constitute the Copernicus EMS:

Copernicus EMS - Mapping

The Copernicus EMS - Mapping addresses, with worldwide coverage, a wide range of emergency situations resulting from natural or man-made disasters. Satellite imagery is used as the main datasource. The service covers in particular:

- Floods
- Tsunamis
- Earthquakes
- Landslides
- Fires
- Severe Storms
- Volcanic eruptions
- Technological disasters
- Humanitarian crises



Copernicus EMS - Mapping

European Flood Awareness System

The European Flood Awareness System (EFAS) is the first operational system that monitors and forecasts flood events across Europe. It provides its partners (national/regional authorities, as well as the European Commission's Emergency Response Coordination Centre) with a wide range of complementary, added value flood early warning information including related risk assessments up to 10 days in advance.



European Flood Awareness System

European Forest Fire Information System (EFFIS) and Global Wildfire Information System (GWIS)

The European Forest Fire Information System (EFFIS) monitors forest fire activity in near-real time and archives historical information on forests fires in Europe, Middle East and North Africa. The Global Wildfire Information System (GWIS) is a joint initiative of the Copernicus EMS and the Group on Earth Observations (GEO) work programs aiming at monitoring wildfire occurrence and impact at the global level. Both, EFFIS & GWIS, support wildfire management at national, regional and global levels.



Access to EFFIS and GWIS application are available at:

EFFIS and GWIS Systems

Copernicus is an EU programme aimed at developing European information services based on satellite Earth Observation and in situ (non space) data. Copernicus is a user driven programme and the information services provided will be freely and openly accessible to its Users, mostly public authorities.

[Data and Dissemination Policy](#) | [Copernicus EMS User Guide](#)

Contact Us!

emergency.copernicus.eu

Follow us on



<http://copernicus.eu/main/security>

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[Home](#) > [Copernicus Services](#) > Security

Copernicus

Security Service

The Copernicus service for Security applications aims to support European Union policies by providing information in response to Europe's security challenges. It improves crisis prevention, preparedness and response in three key areas:

- Border surveillance;
- Maritime surveillance;
- Support to EU External Action.

Border Surveillance

In the area of border surveillance, main objectives are to reduce the number of illegal immigrants entering the EU undetected, to reduce the death toll of illegal immigrants by rescuing more lives at sea and to increase internal security of the European Union as a whole by contributing to the prevention of cross-border crime.

With the delegation agreement finalised on 10 November 2015, the European Commission entrusted [FRONTEX](#) with the border surveillance component Copernicus Security Service. The objective is to support the EU's external border s information exchange framework (EUROSUR) by providing real time data on what is ha land and sea around the EU's borders.


Maritime Surveillance

In the area of maritime surveillance, the overall objective of the European Union is Europe's maritime security objectives and related activities in the maritime do corresponding challenges mainly relate to safety of navigation, support to fisheri combatting marine pollution, and law enforcement.

With the delegation agreement signed on 3 December 2015, the European Commissio [EMSA](#) with the operation of the maritime surveillance component of the Copernicus Secur Under the agreement, [EMSA](#) uses space data from Copernicus Sentinel 1 satellites com other sources of maritime information to effectively monitor maritime areas of interest.

Support to EU External Action

As a global actor, Europe has a responsibility in promoting stable conditions for economic development, human rights, democracy and fundamental freedoms. In this main objective of the EU is to assist third countries in a situation of crisis or emerging c prevent global and trans-regional threats having a destabilising effect.





www.balticsatapps.pl



EUROPEAN UNION

EUROPEAN
REGIONAL
DEVELOPMENT
FUND