BalticSatApps

Jak pozyskać dane satelitarne?

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www.balticsatapps.pl

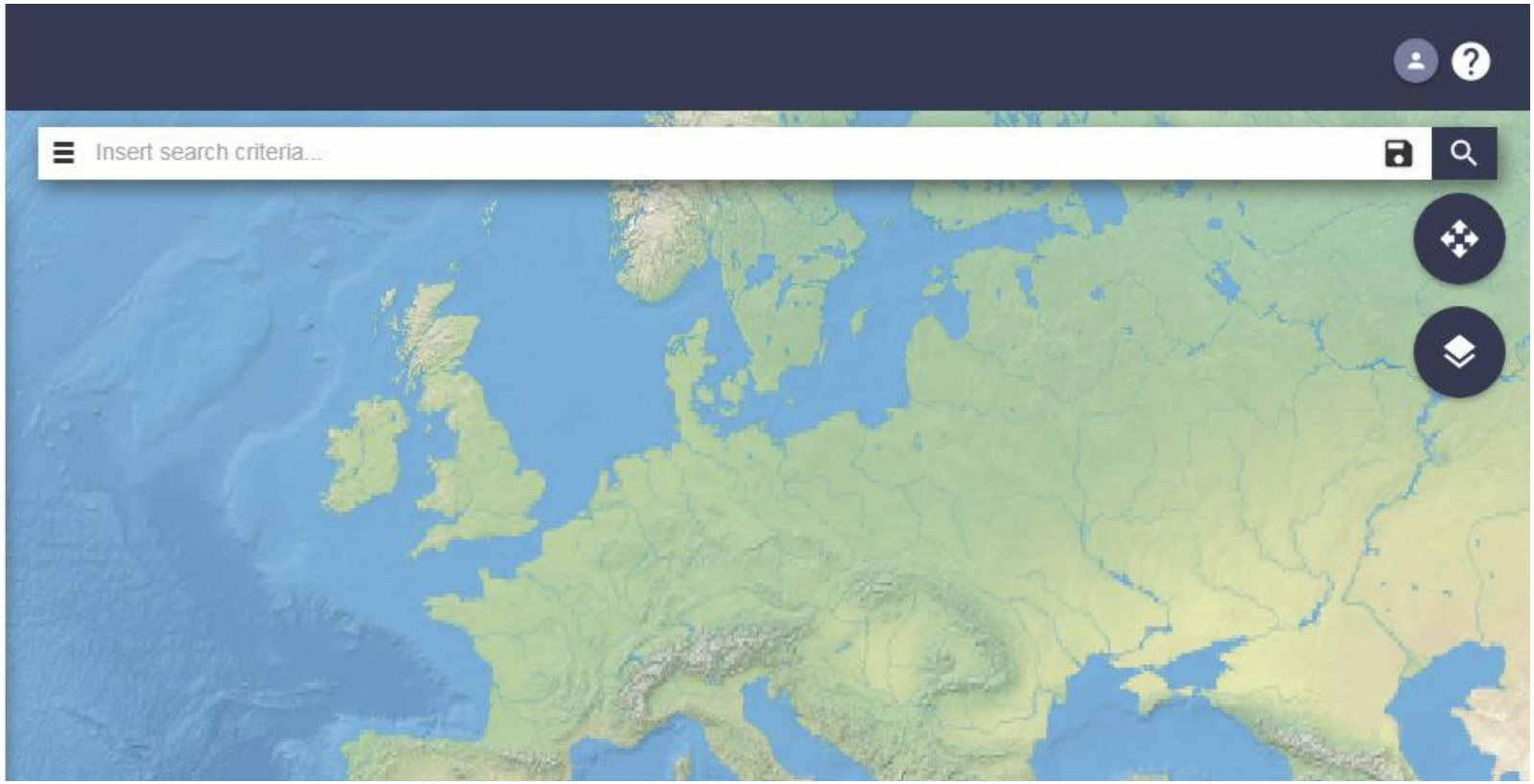
Dostęp do danych

Należy wejść na stronę https://coda.eumetsat.int/#/home

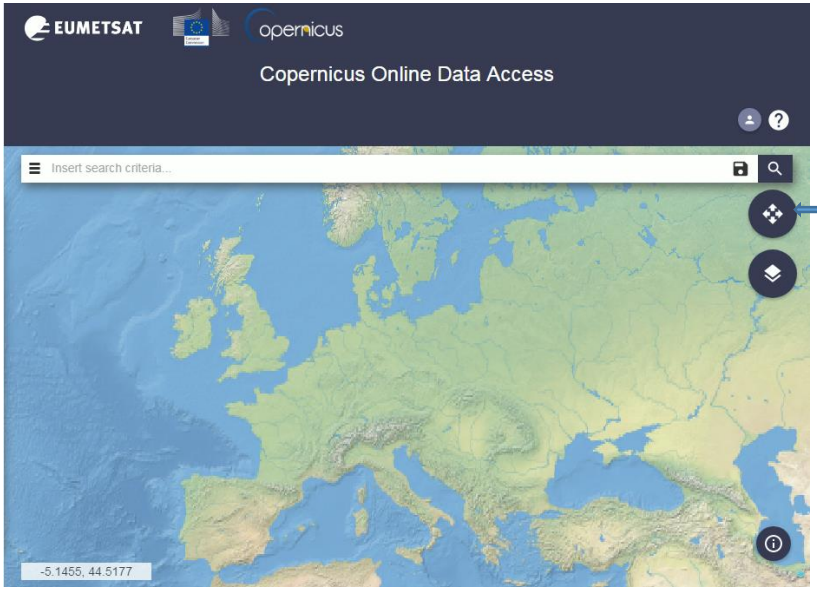
W pierwszej kolejności zostaniesz poproszony o zalogowanie lub utworzenie bezpłatnego konta.

Dostęp do danych

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



Dostęp do danych - Wybór obszaru

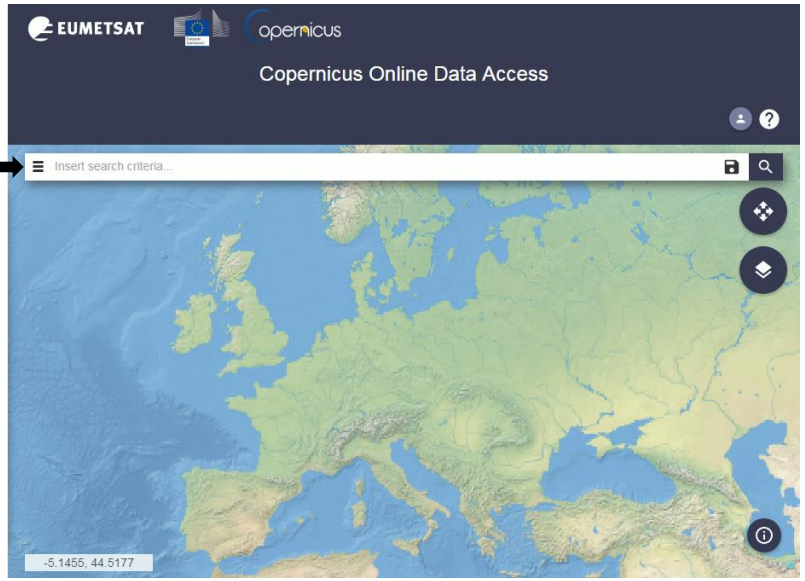


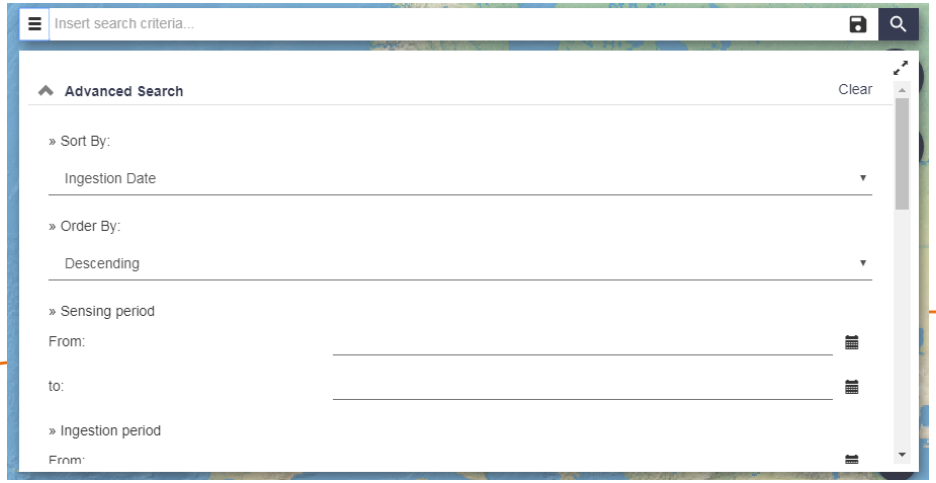
Położenie geograficzne

Zaznaczenie obszaru na mapie

Wybór obszaru

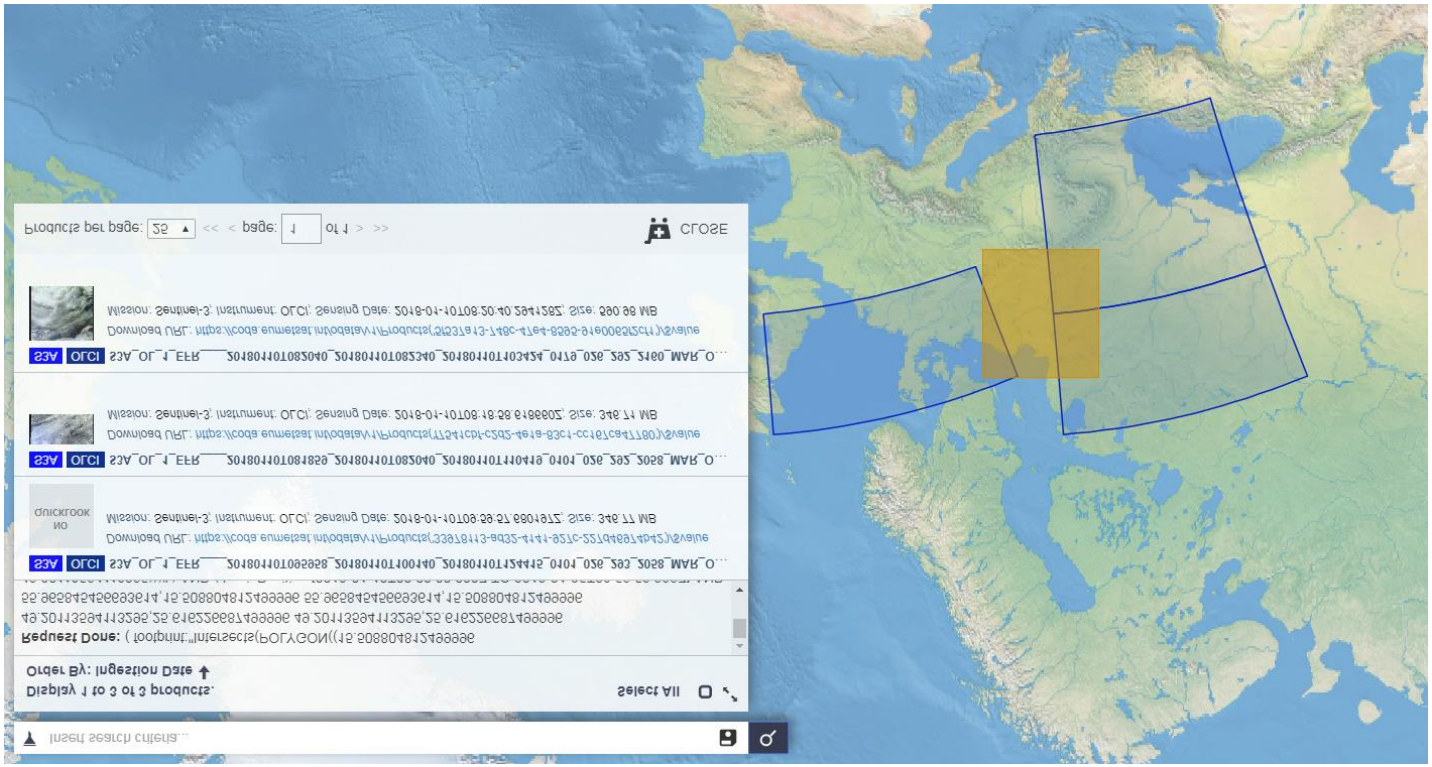
Dobór kryteriów selekcji danych





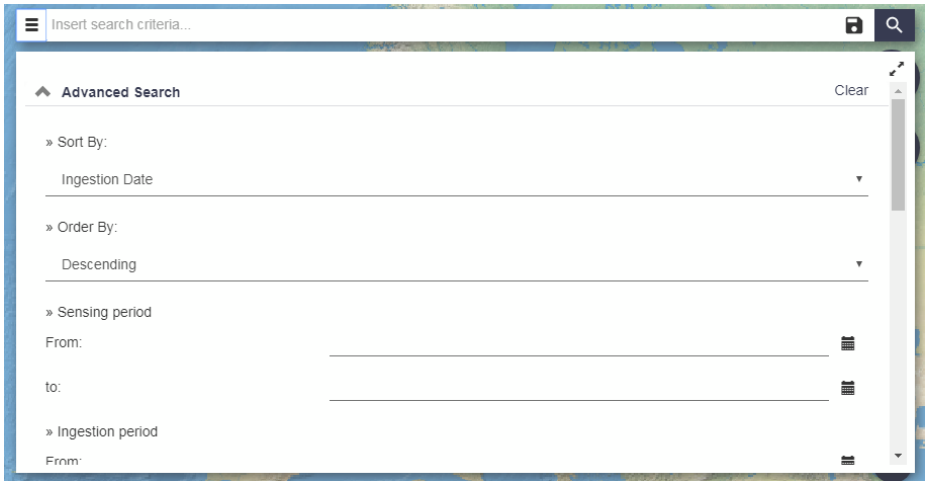
Panel selekcji danych

Wybór obszaru



Wyświetlanie danych dostępnych dla zaznaczonego obszaru

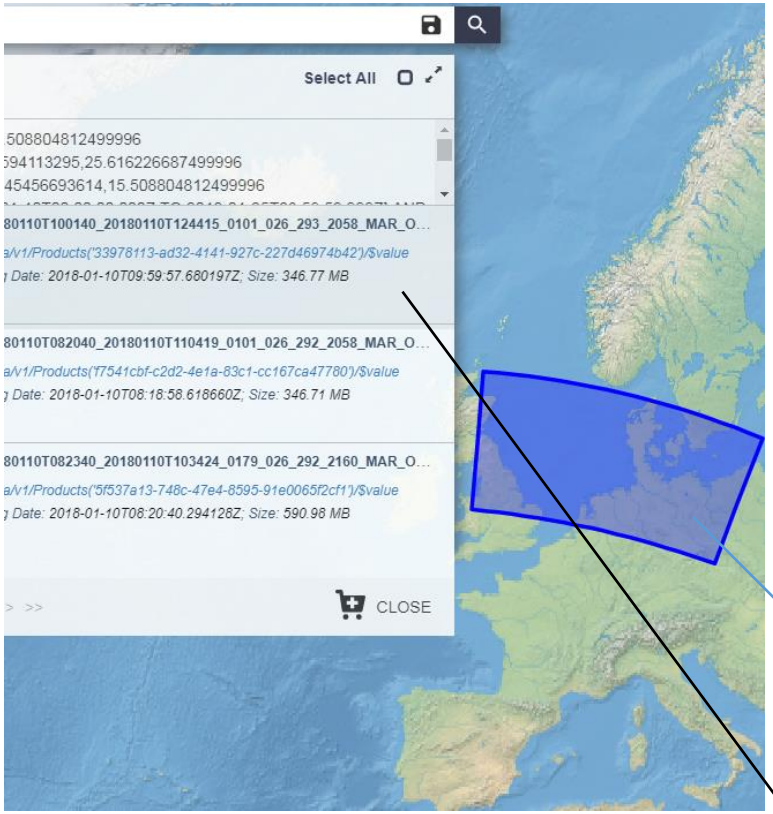
Wybór obszaru - opcje



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 (GHRSST 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



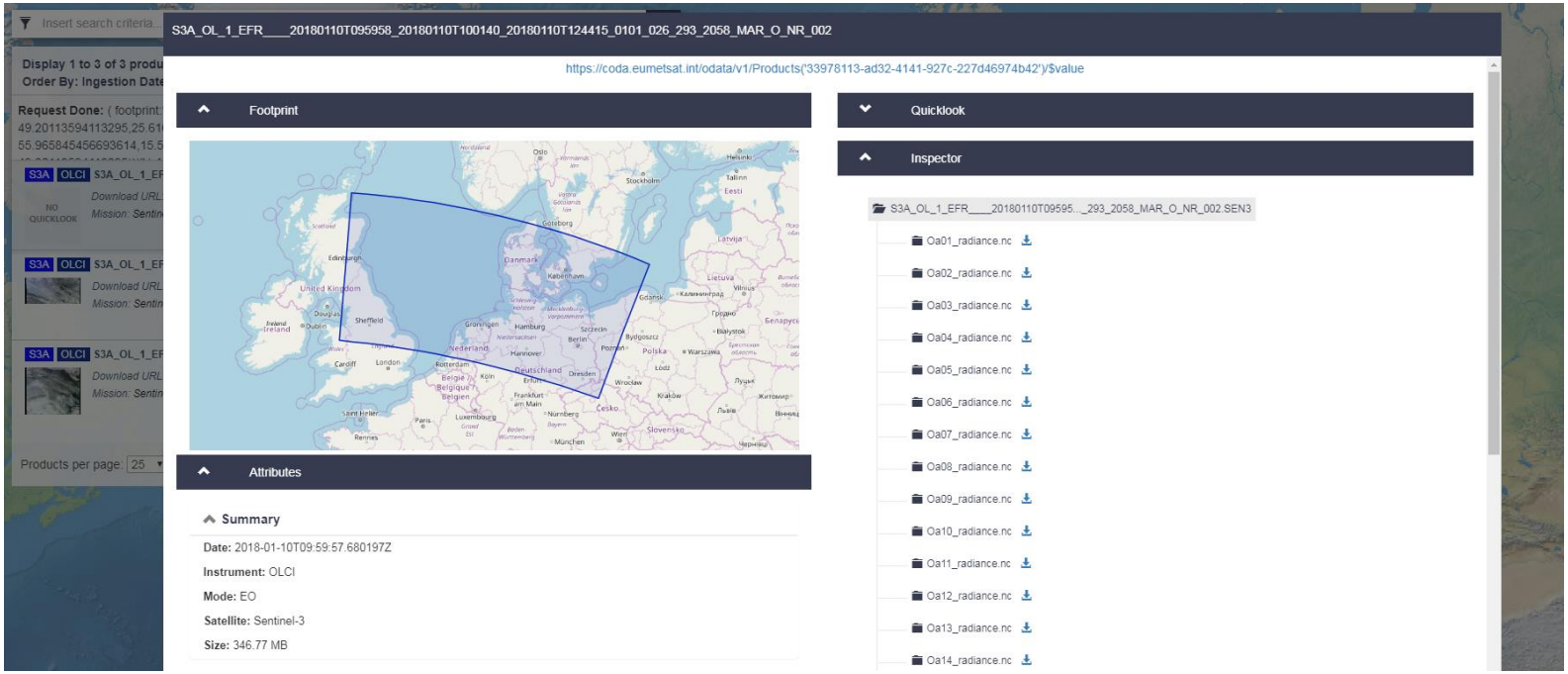
- Near RealTime NRT – dane te są dostępne 3 godziny po zebraniu
- 1 month Short time critical STC – dane dostępne 48 godzin po zebraniu
- 1 month Non time critical NTC – dane dostępne miesiąc po zebraniu

Wybór produktu,

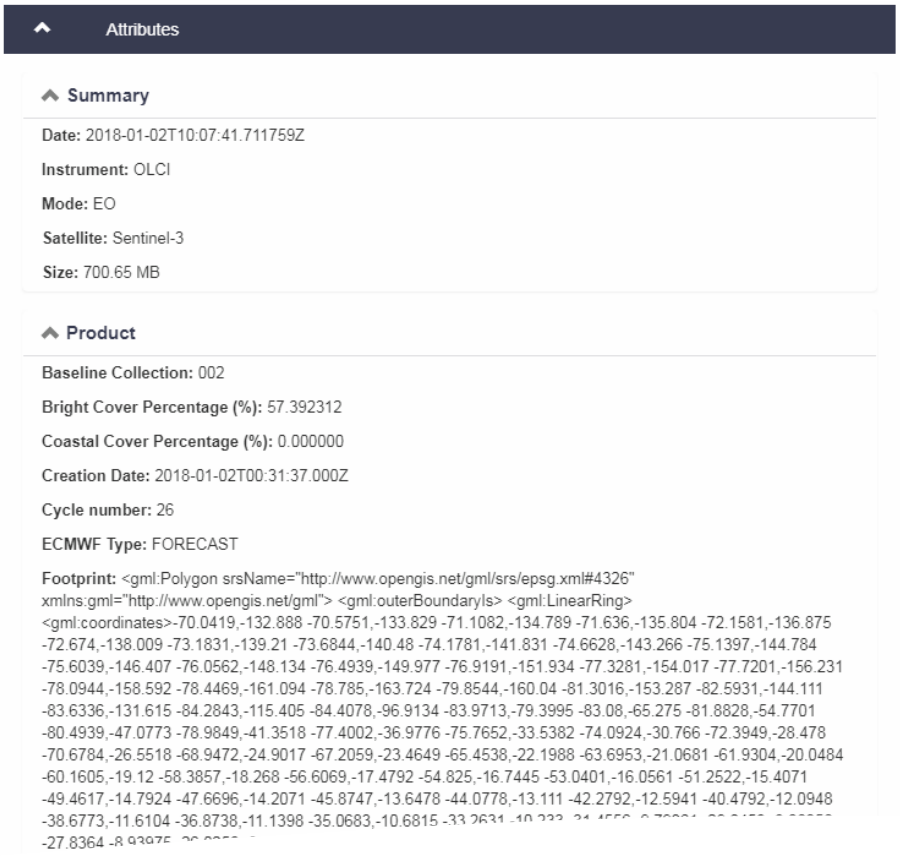
poprzez wskazanie

na liście, lub mapie

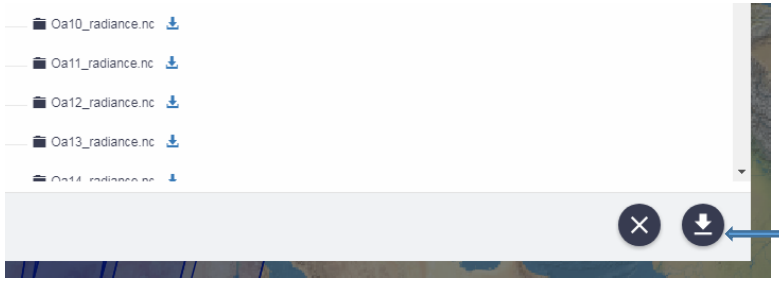
Podgląd informacji o pliku danych



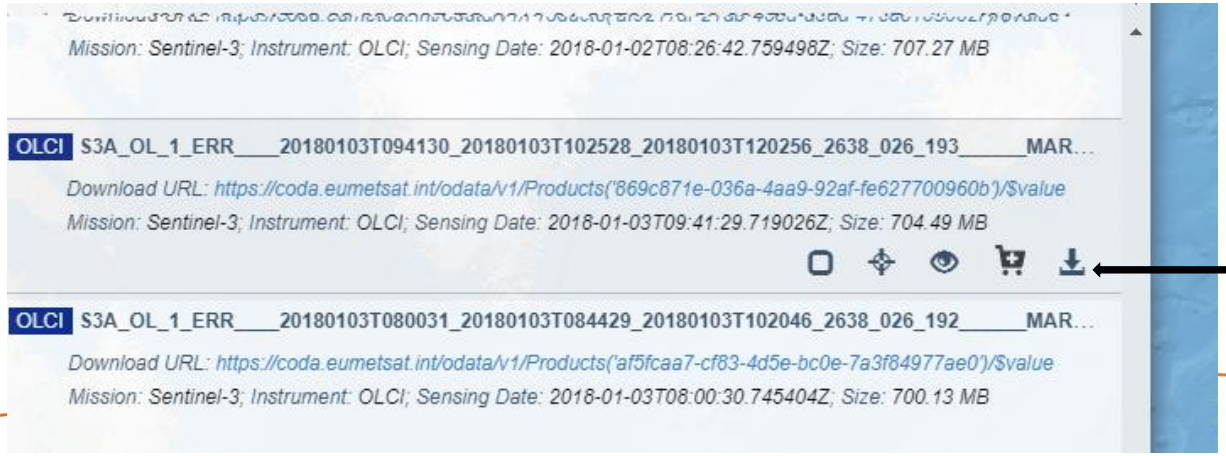
Podgląd informacji o pliku danych cd



Pobranie danych



Z okna podglądu

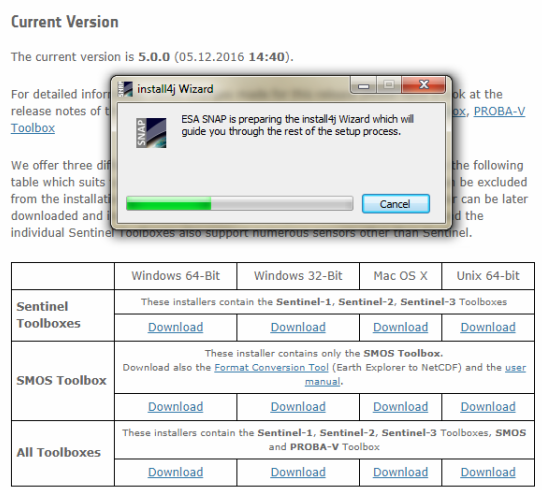


Z listy plików danych

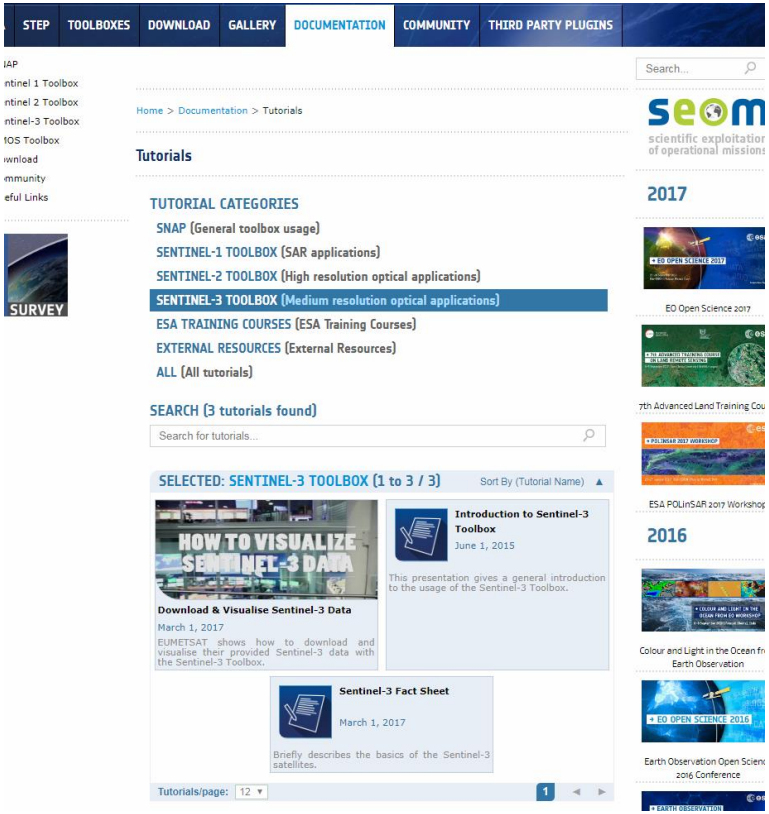
Wizualizacja danych – aplikacja SNAP

- 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/



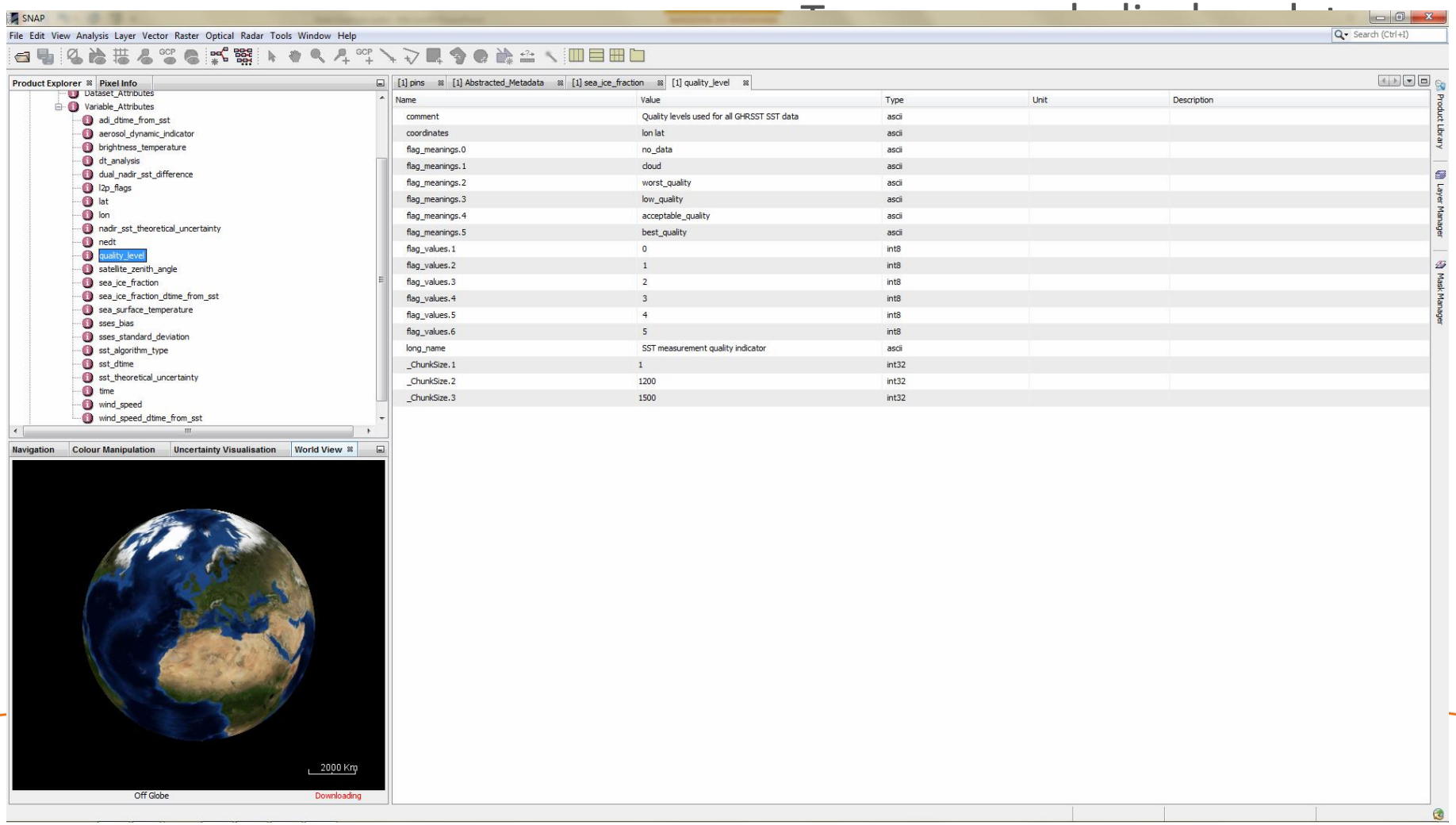
Aplikacja SNAP



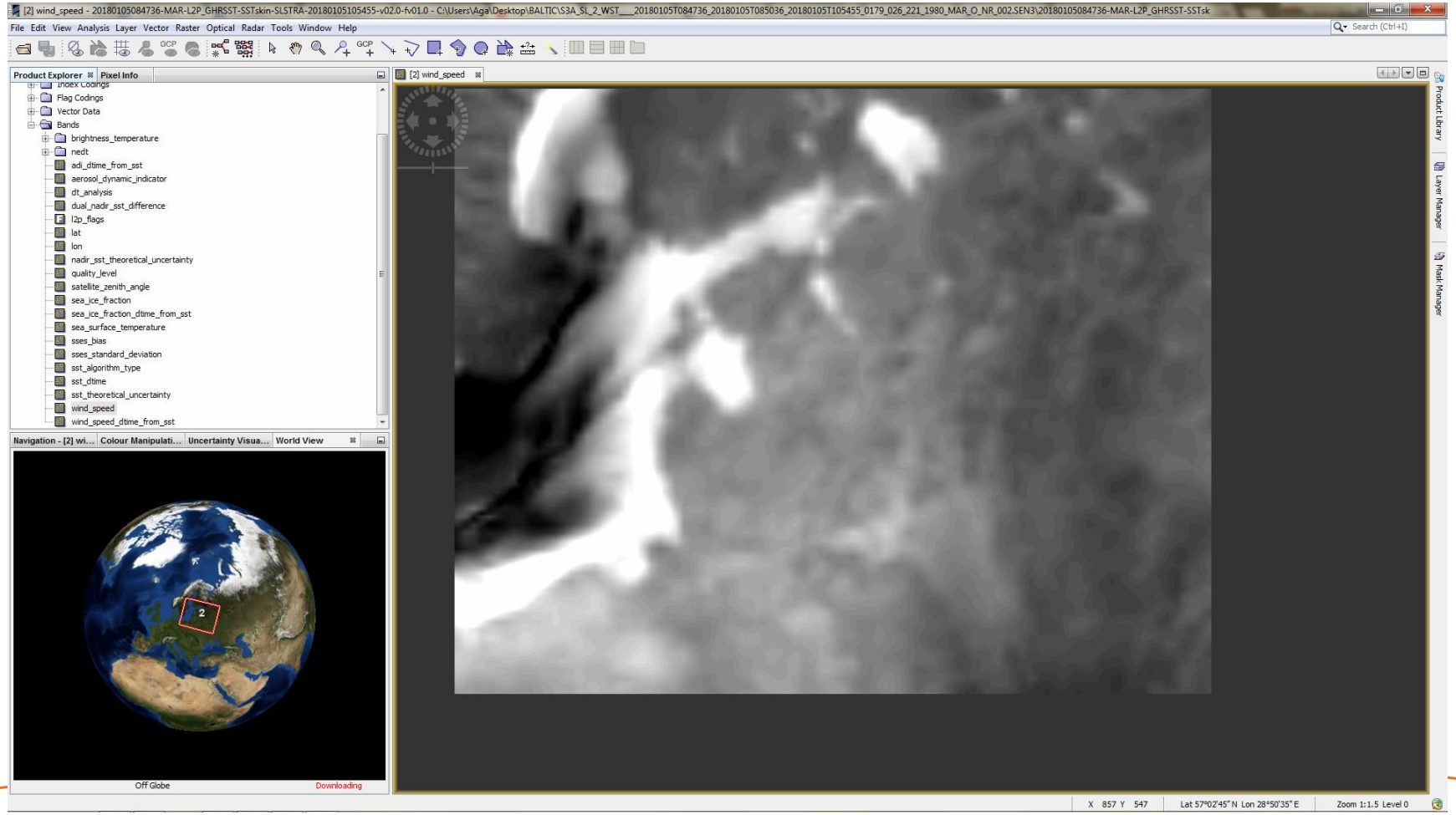
- Dokumentacja do aplikacji dostępna jest pod adresem
- http://step.esa.int/main/toolboxes/snap/

Aplikacja SNAP

Umożliwia operacje na pobranych plikach danych



Wizualizacja danych



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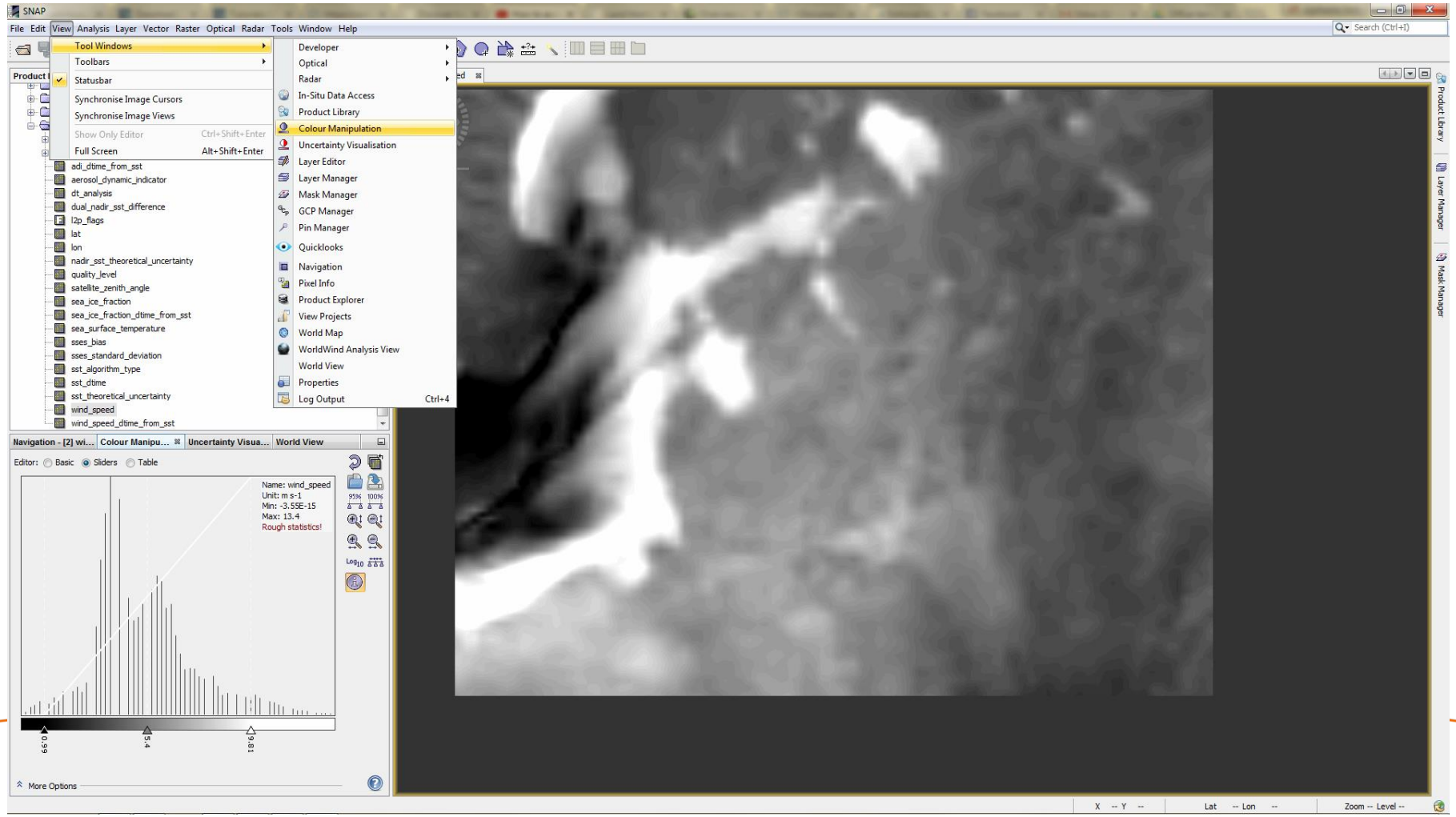
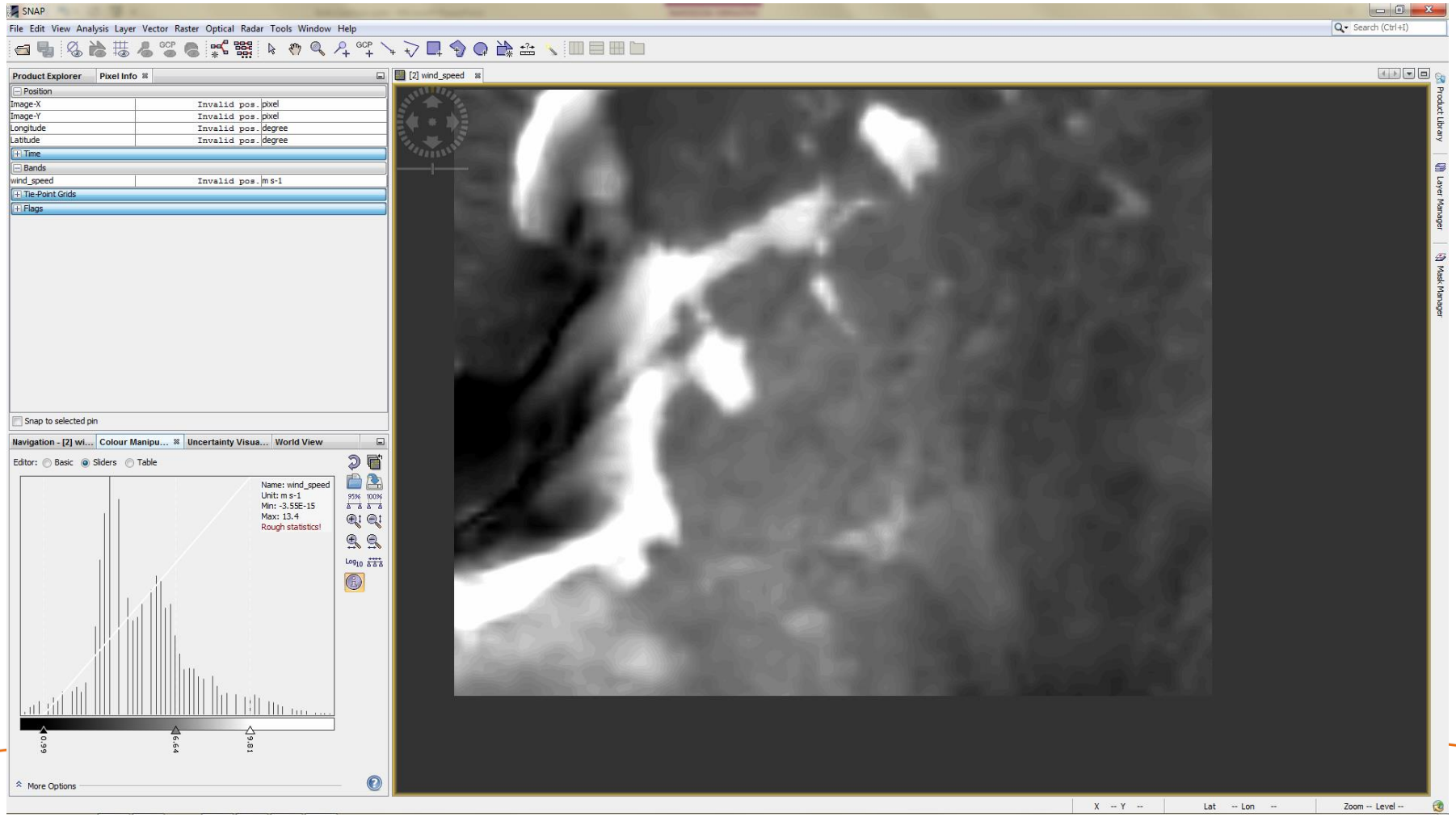
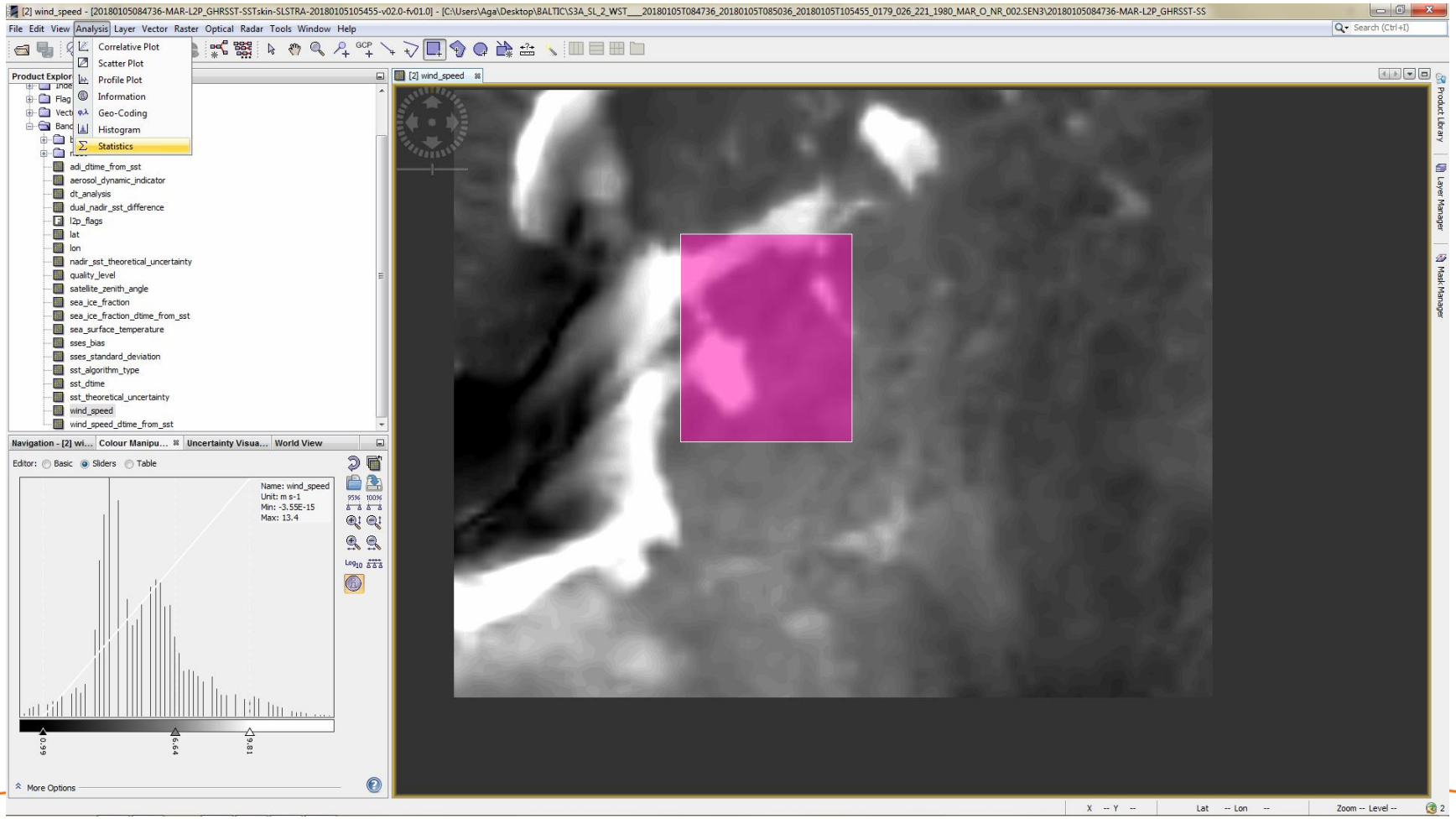


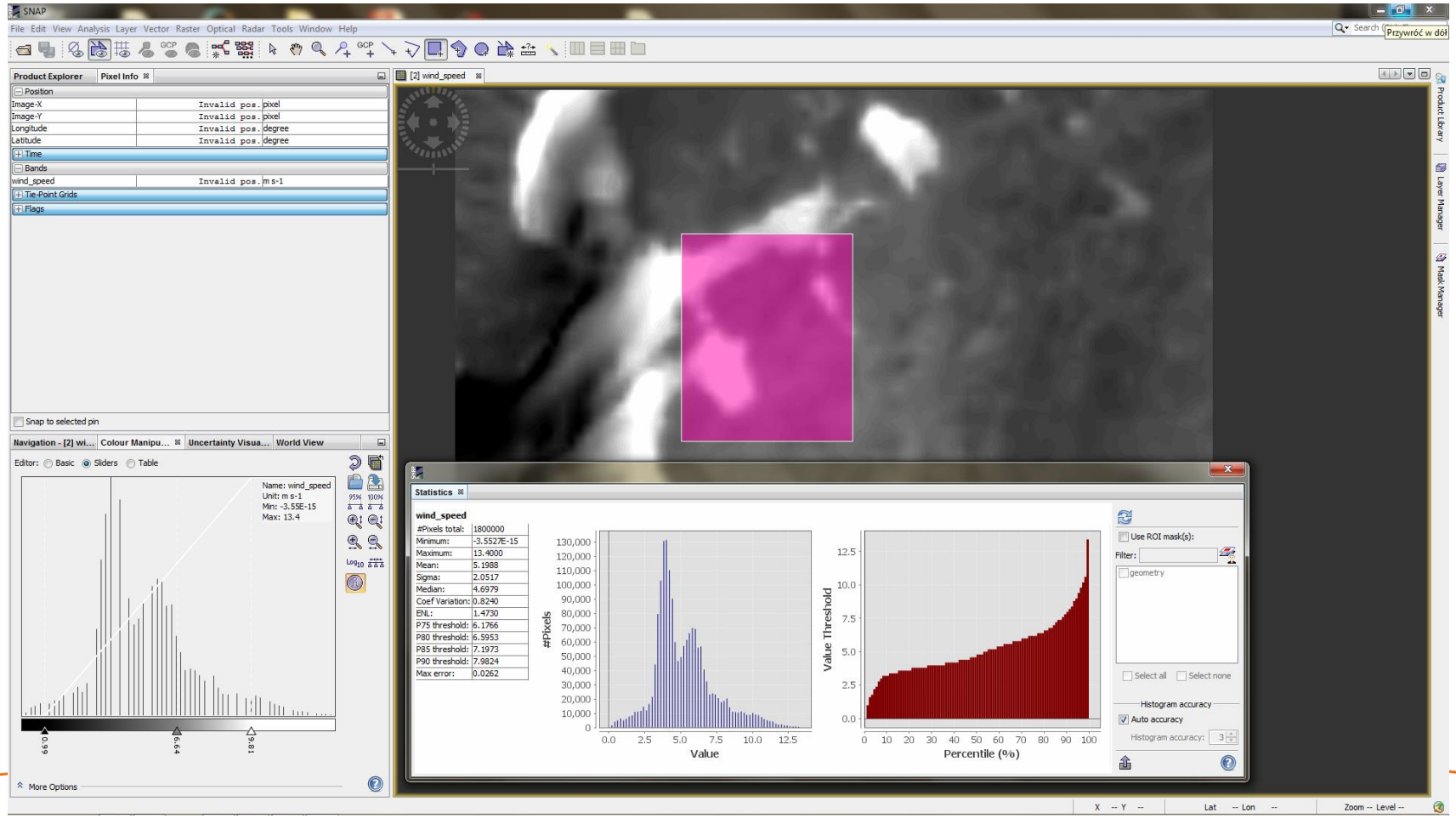
Wizualizacja danych



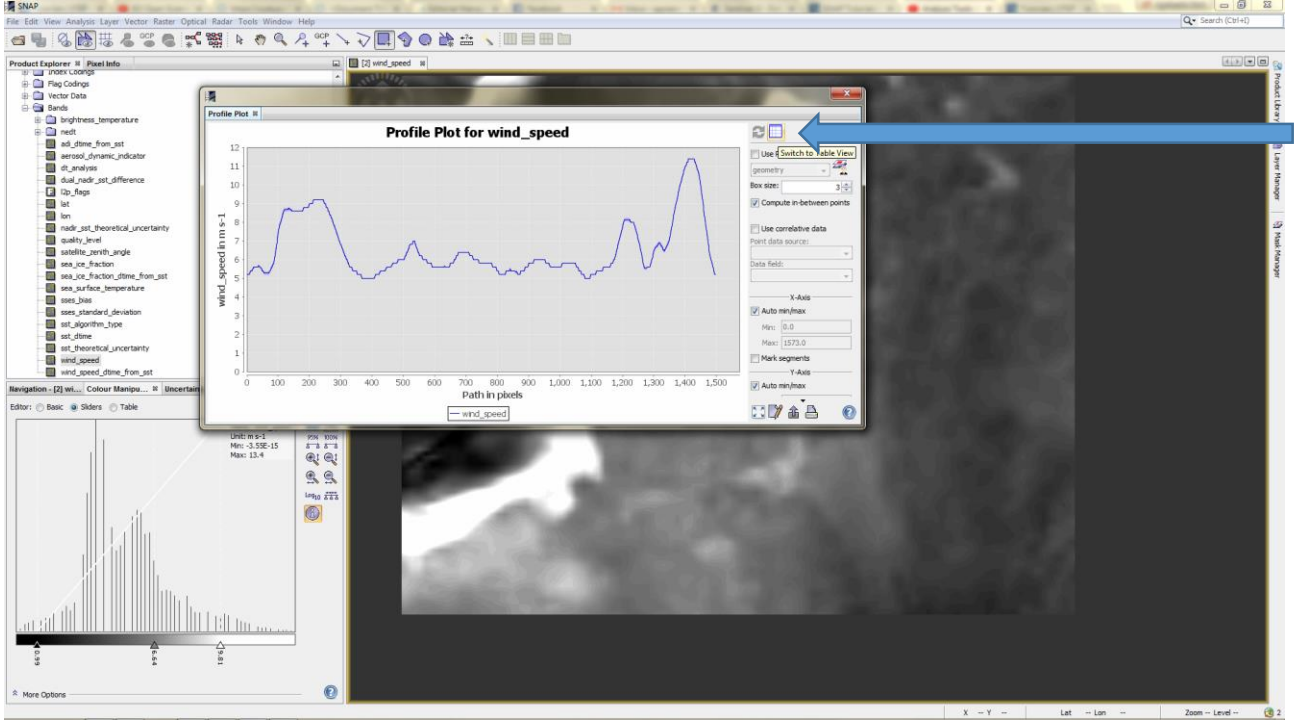
Analiza danych, statystyki

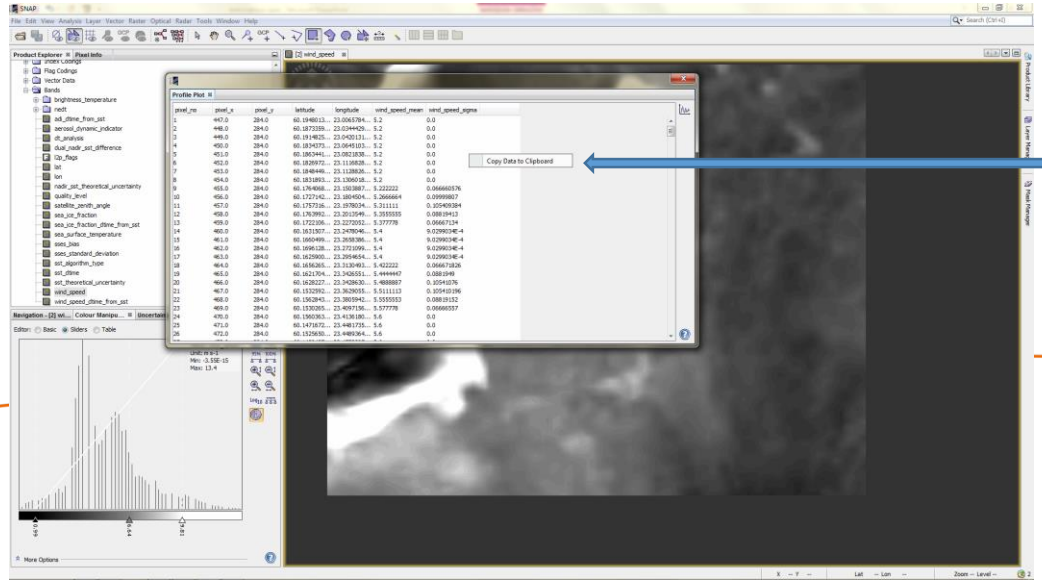


Analiza danych, statystyki



Widok tablicowy danych

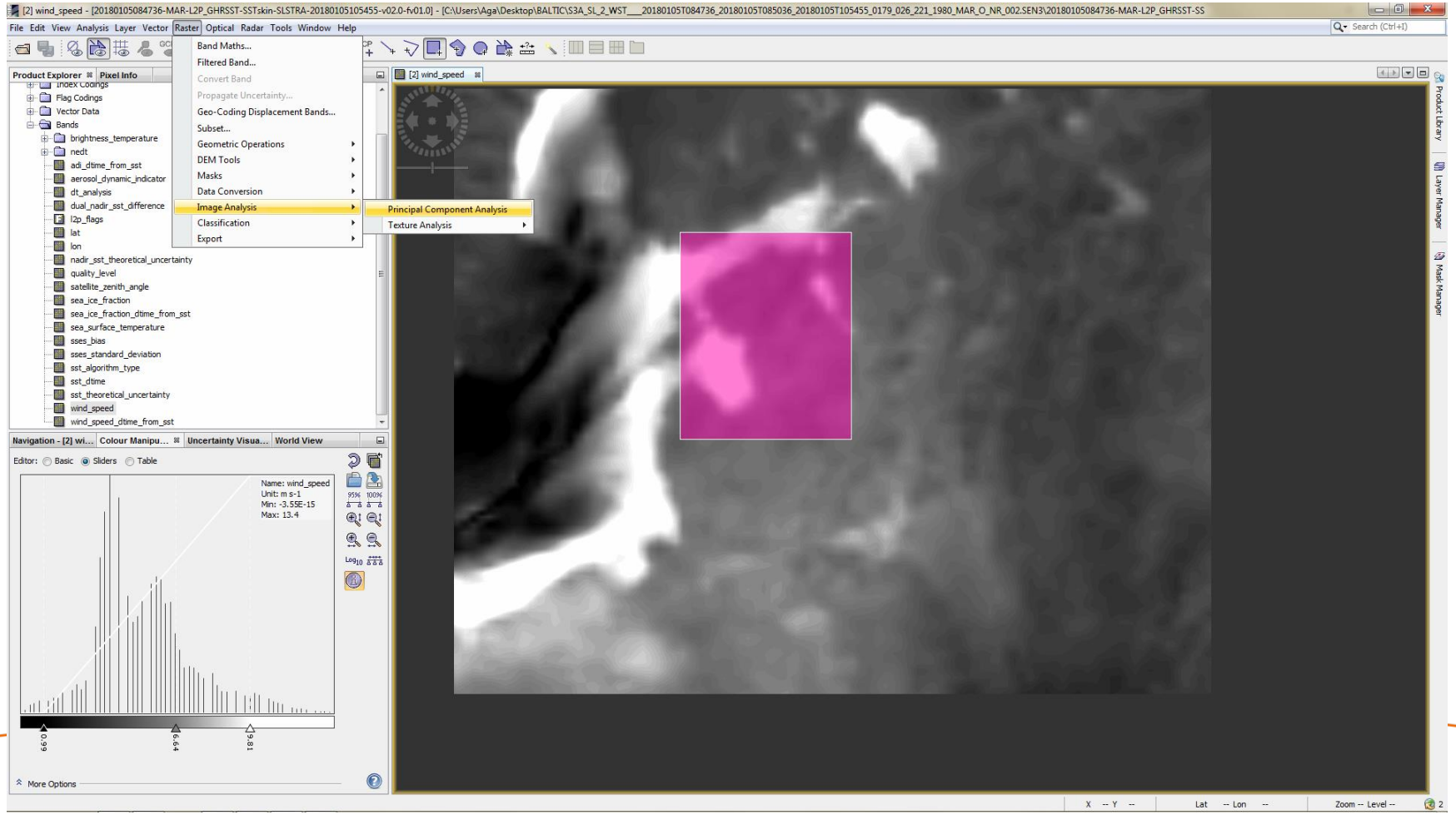




Zapis tabeli danych

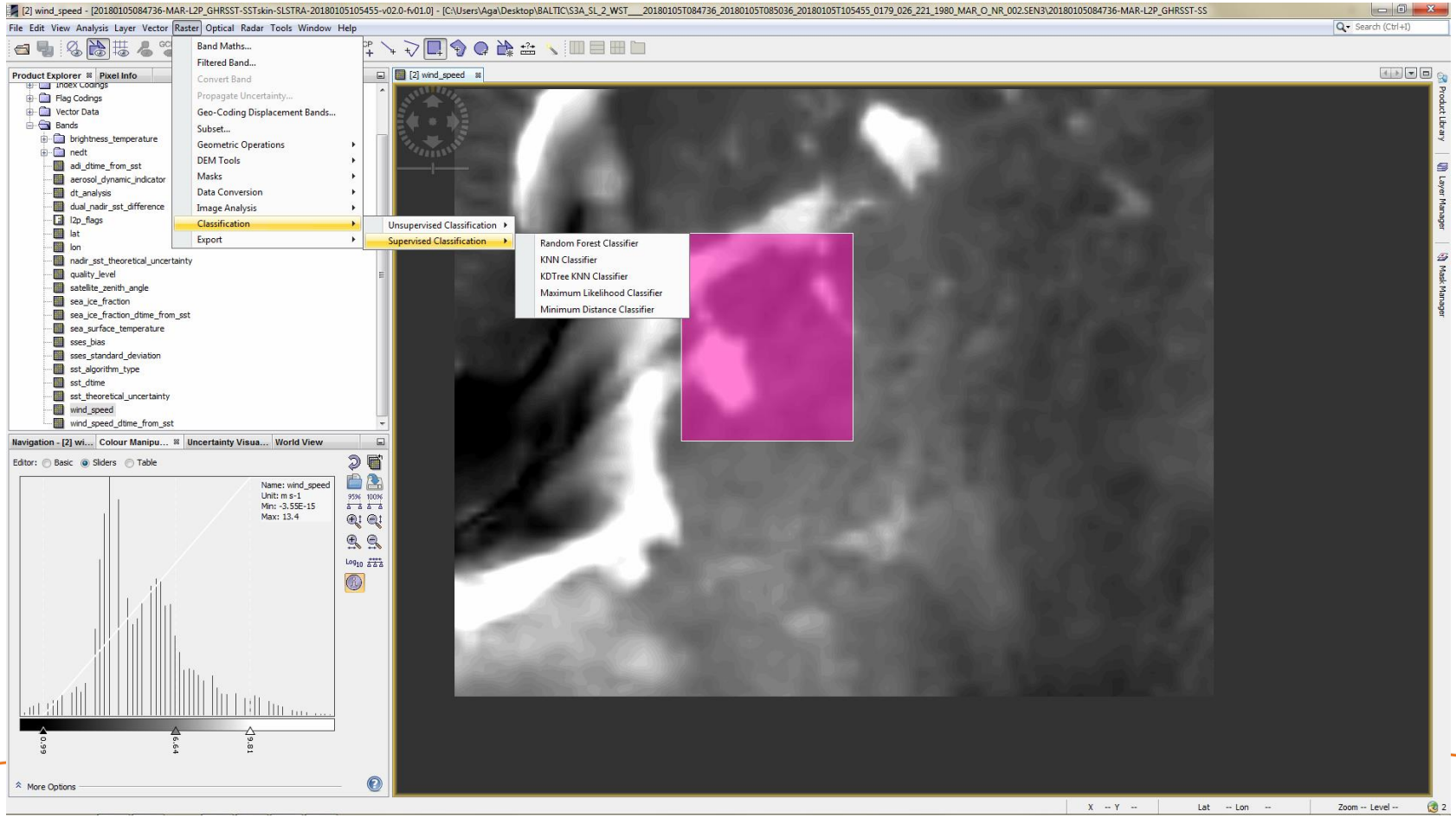
Analiza danych

Aplikacja oferuje analizę obrazów reprezentujących dane

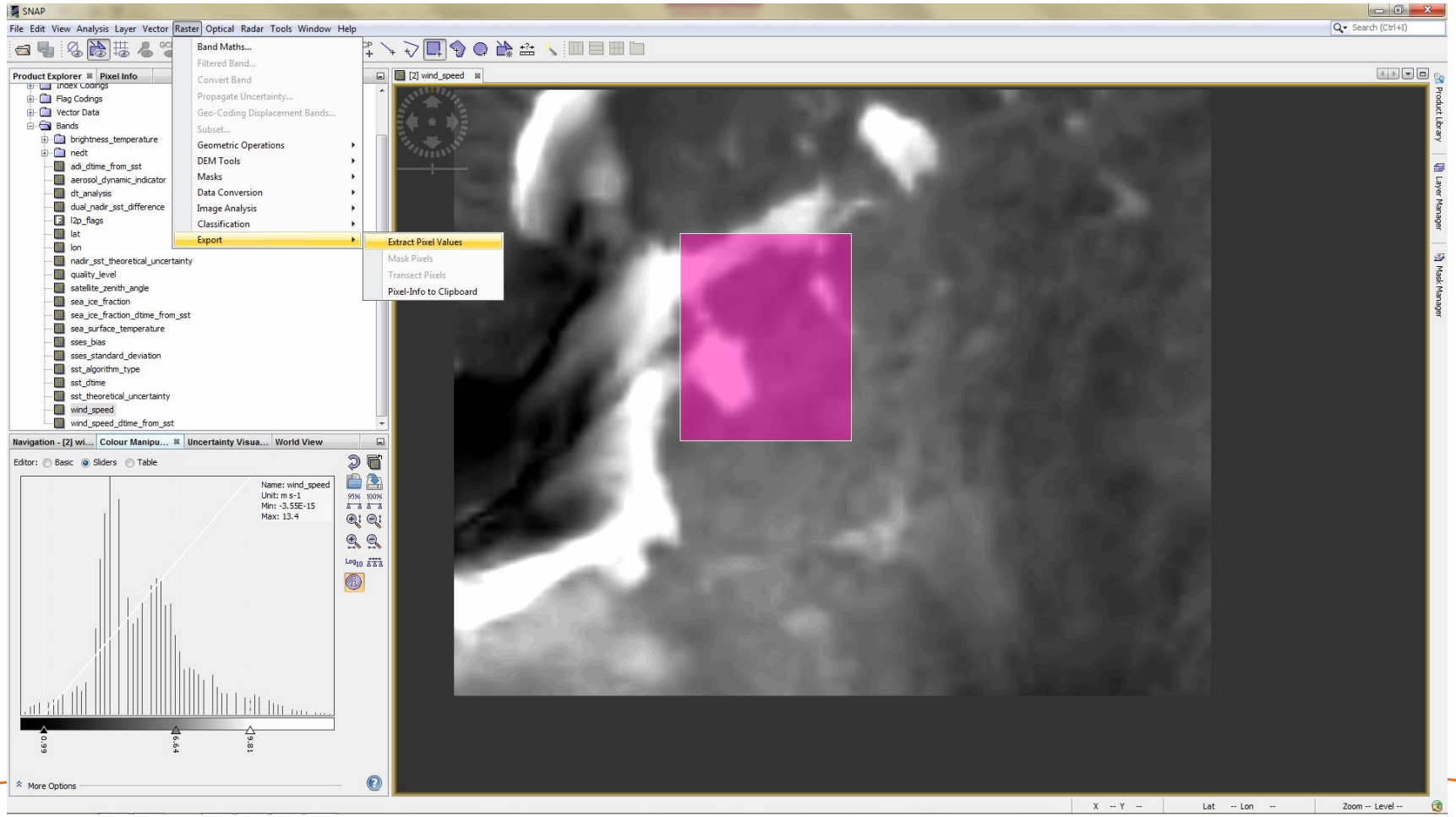


Analiza danych

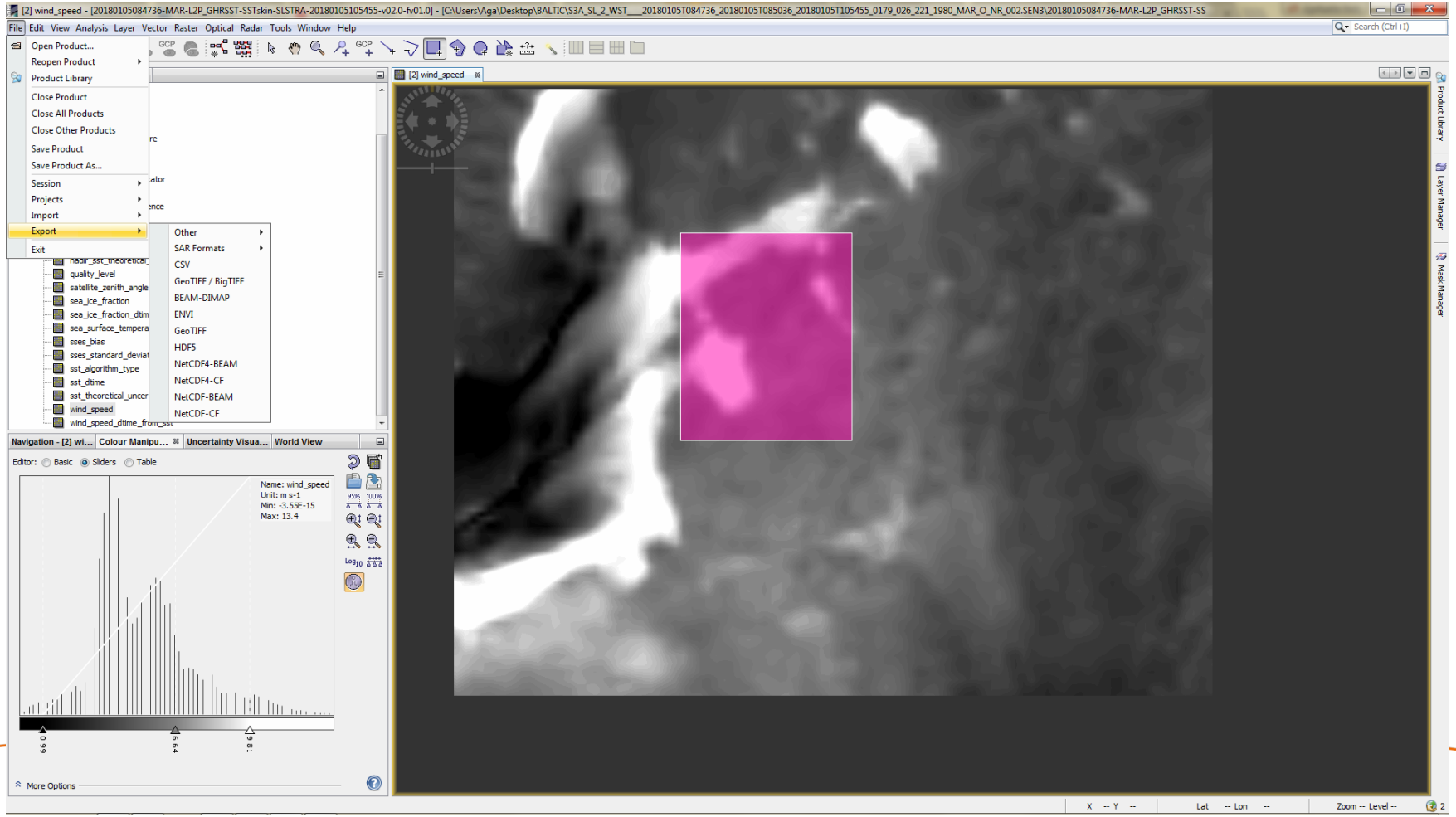
Oraz Min. Klasyfikację w oparciu o metody sztucznej inteligencji, nadzorowane oraz nienadzorowane



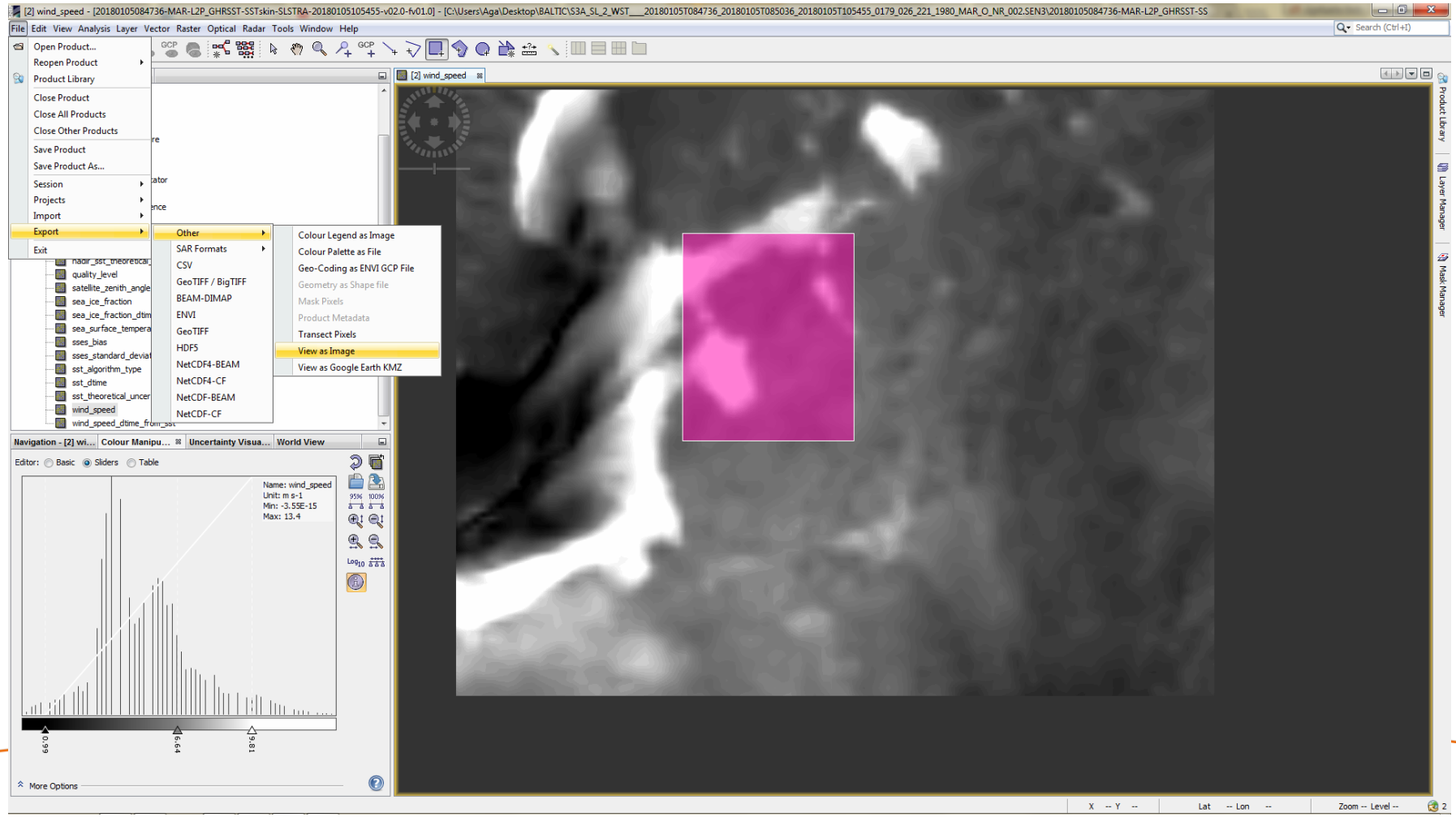
Eksport danych, dalsze możliwości



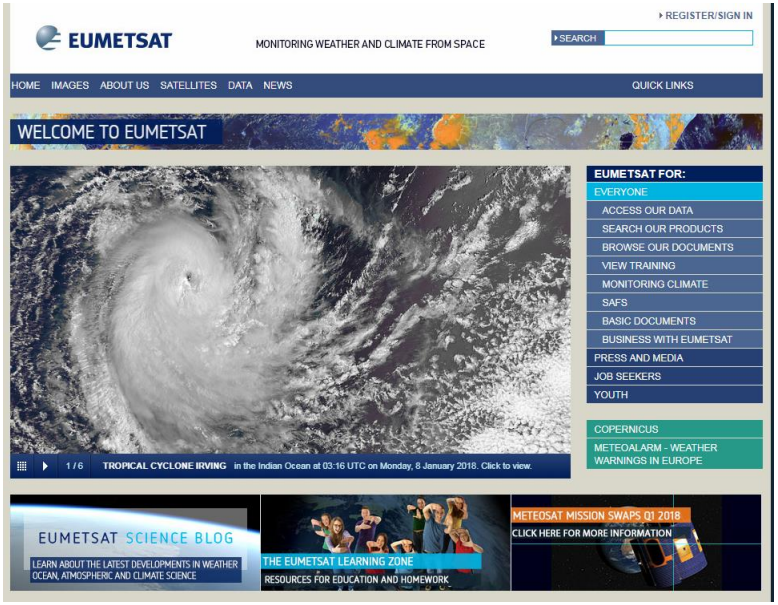
Eksport danych w postaci numerycznej



Eksport danych w postaci pliku graficznego



Warunki dostępu do danych

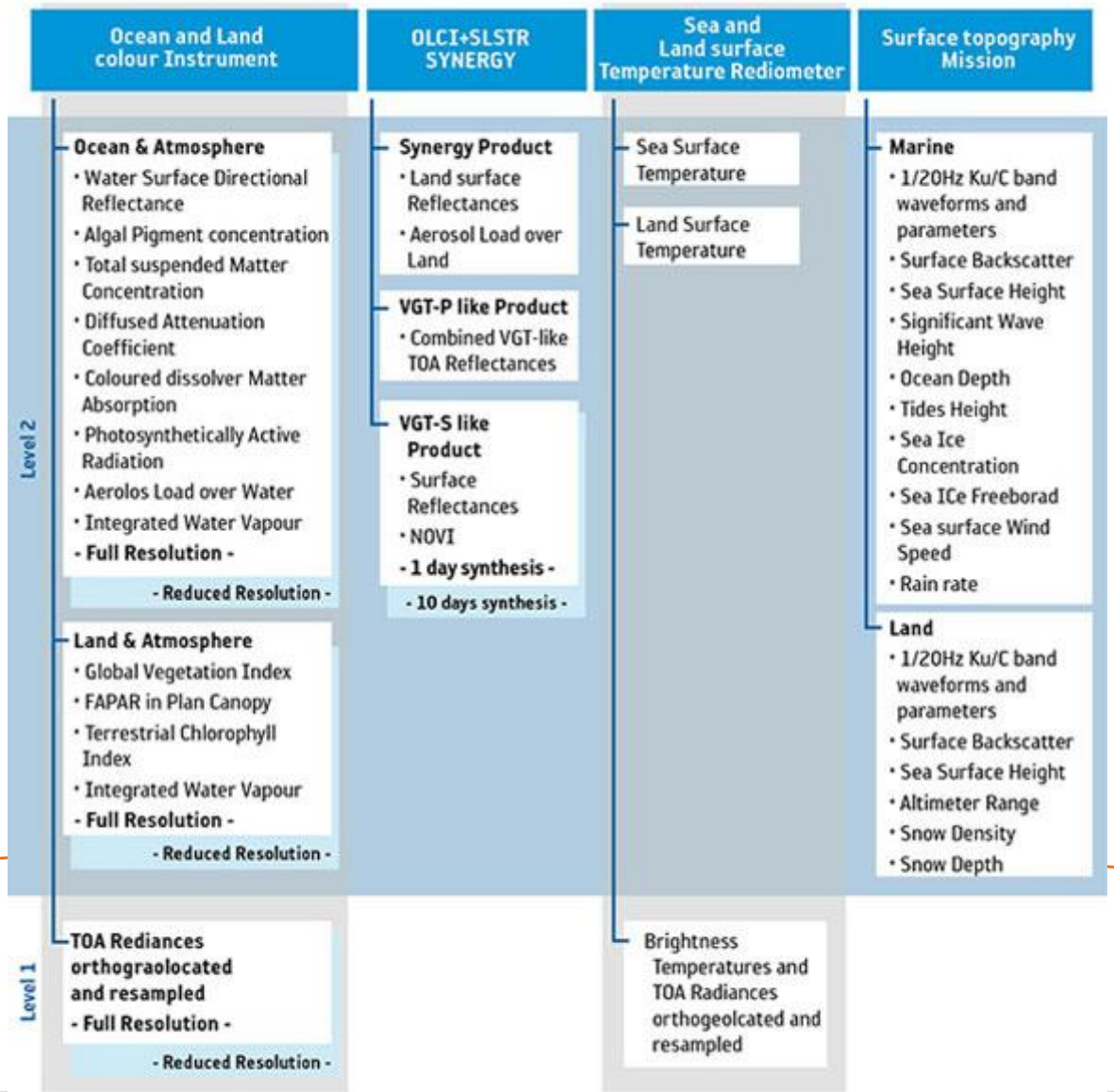


- https://www.eumetsat.int/website/home/index.html
- Dane dostępne są bez konieczności wnoszenia opłat
- Wymagane jest jedynie założenie konta użytkownika systemu
- https://www.eumetsat.int/website/home/Data/DataDelivery/DataRegistration/index.html

Dane dostarczane z Sentinela3

Podział na kategorie

Podział
na poziomy

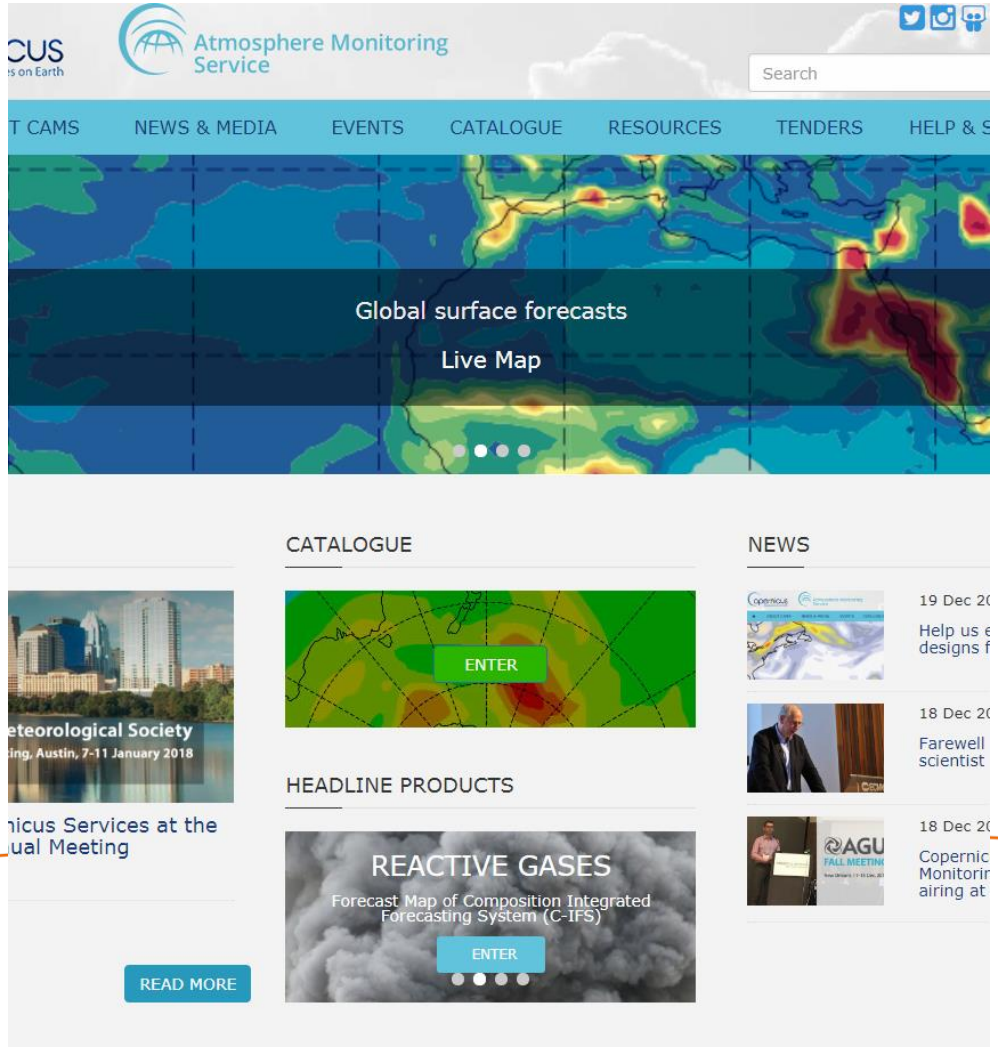


http://www.copernicus.eu/main/application-domains

Zakres zastosowań danych z projektu Copernicus

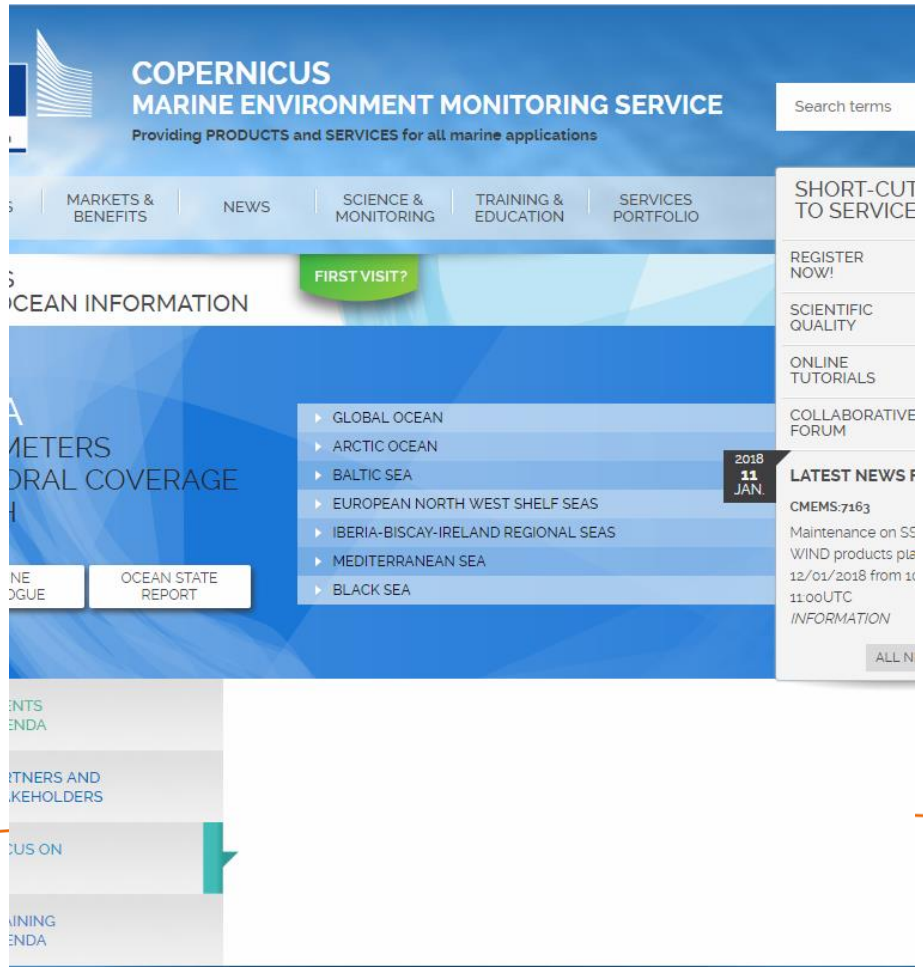
http://atmosphere.copernicus.eu/

Dane dotyczące atmosfery



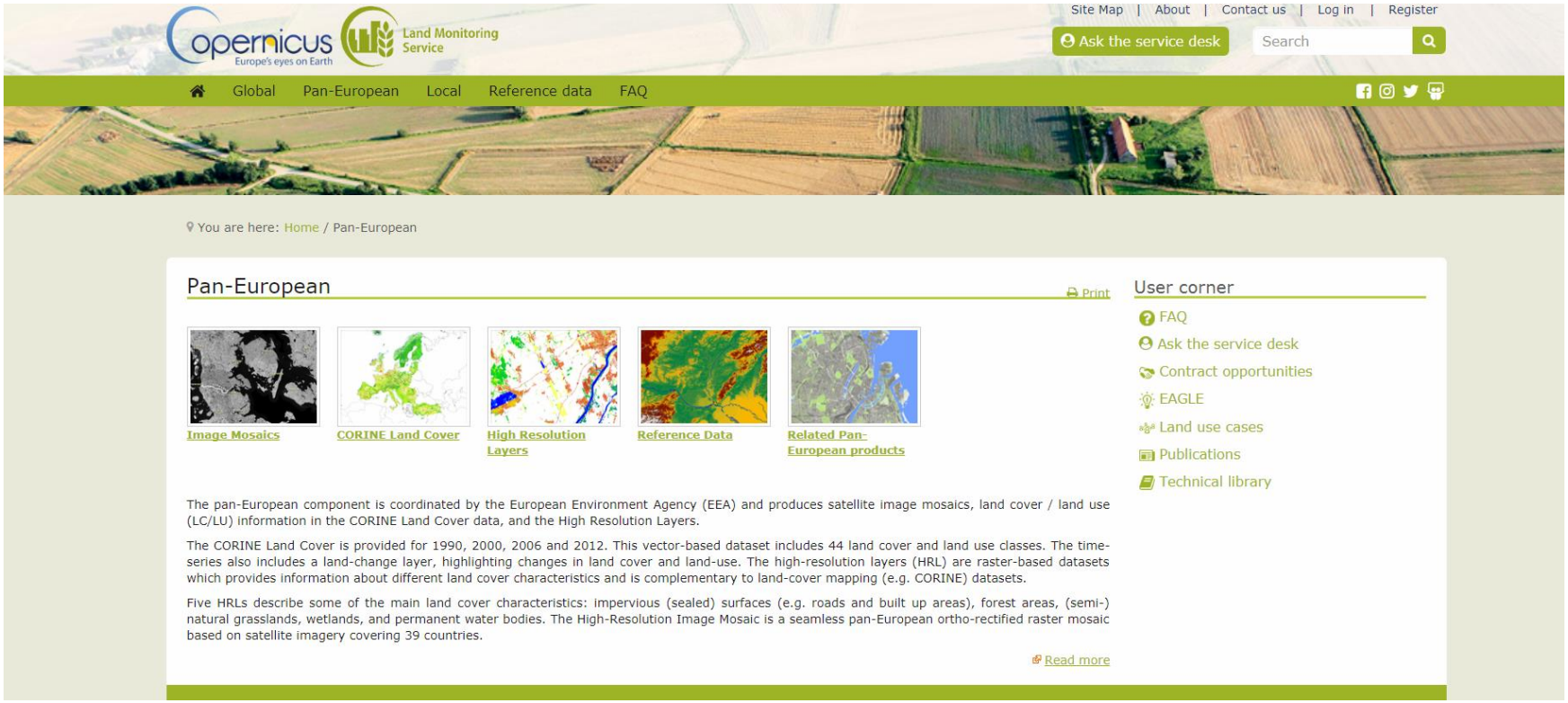
http://marine.copernicus.eu/

Dane dotyczące obszarów morskich



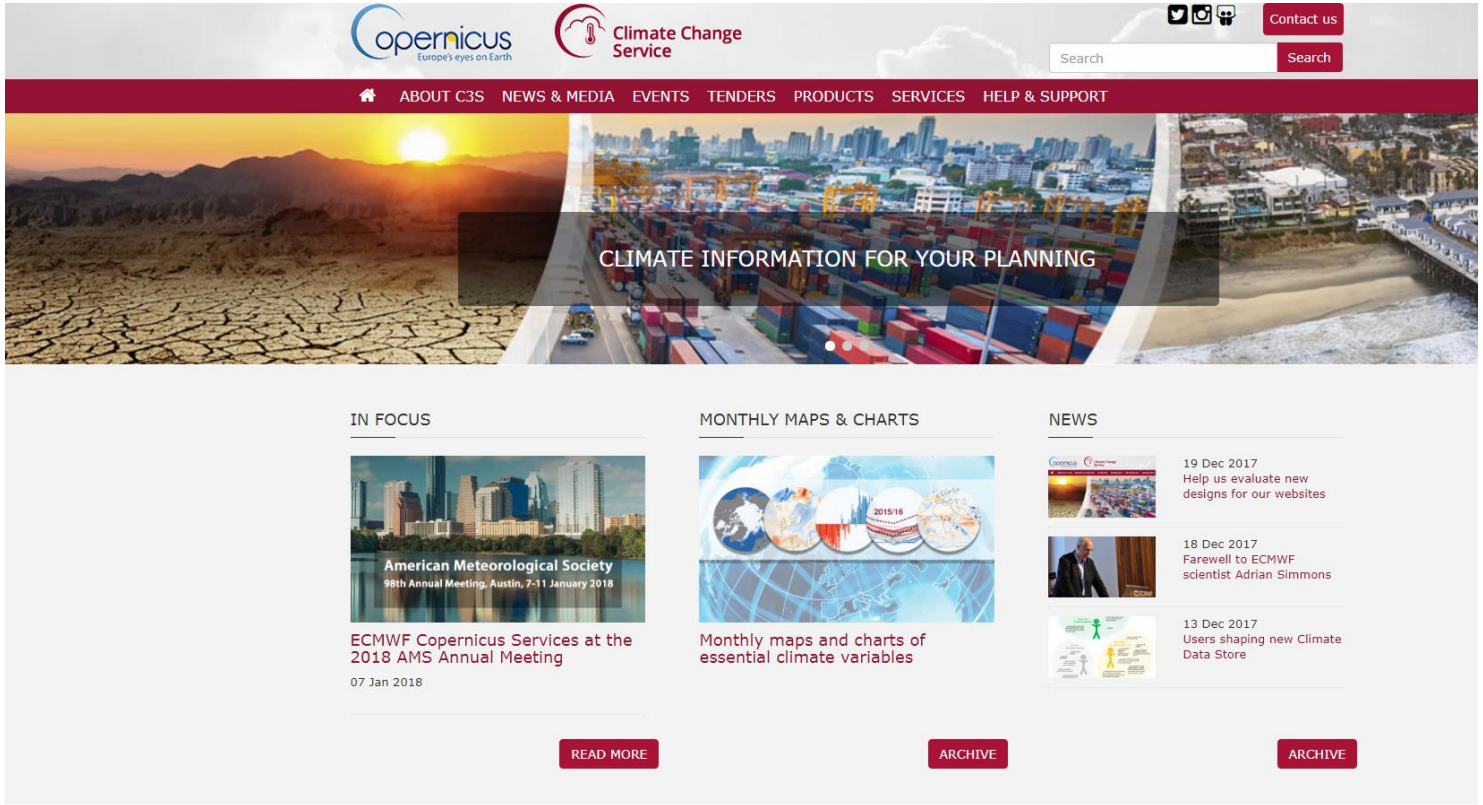
https://land.copernicus.eu/pan-european

Pomiary dotyczące lądu



http://climate.copernicus.eu/

Zmiany klimatyczne



http://emergency.copernicus.eu/

Zarządzanie kryzysowe

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 compone 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 Commissior 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 h 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.

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CTT Politechnika Krakowska

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Interreg Baltic Sea Region

EUROPEAN UNION

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