CENTRUM NAUKI KOPERNIK

esa

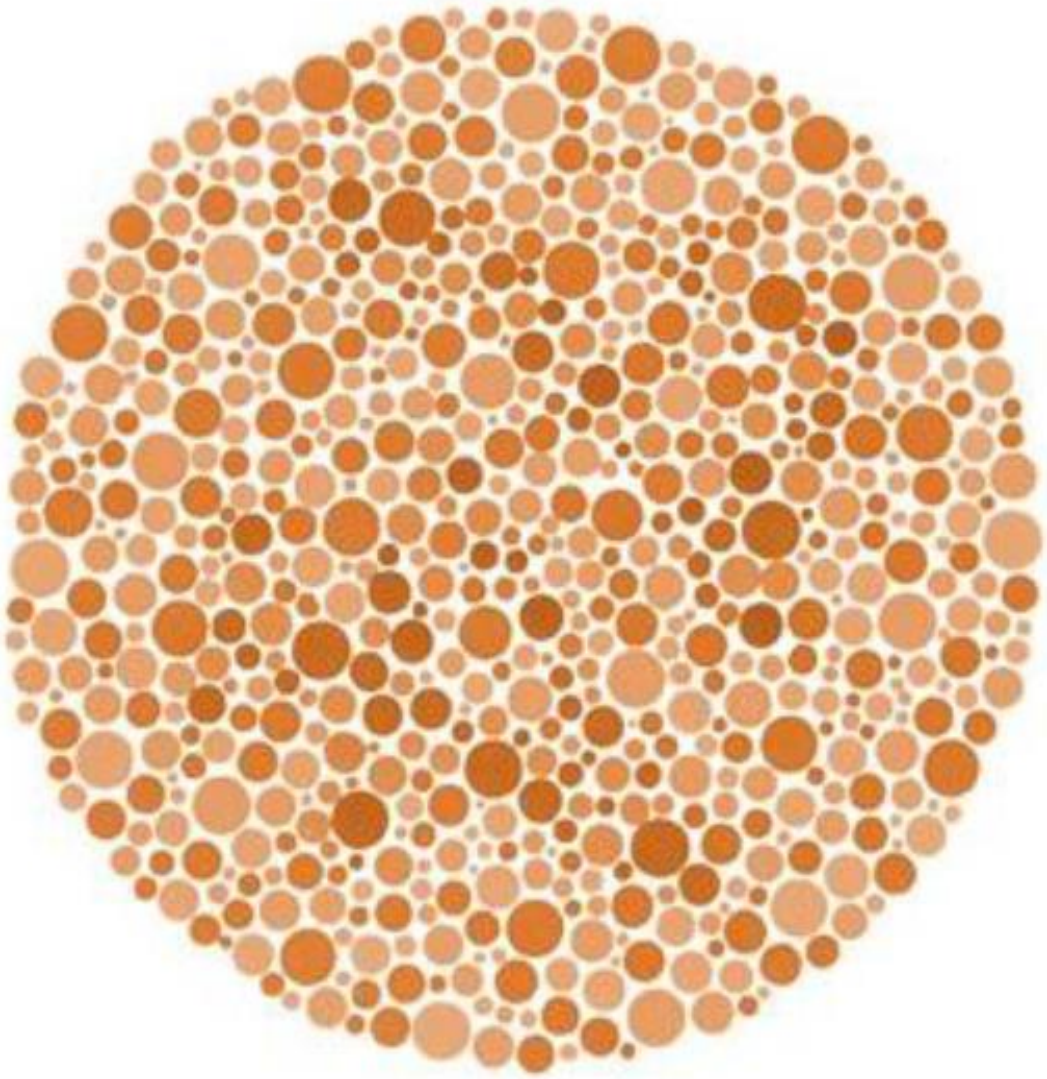
NIEBO KOPERNIKA

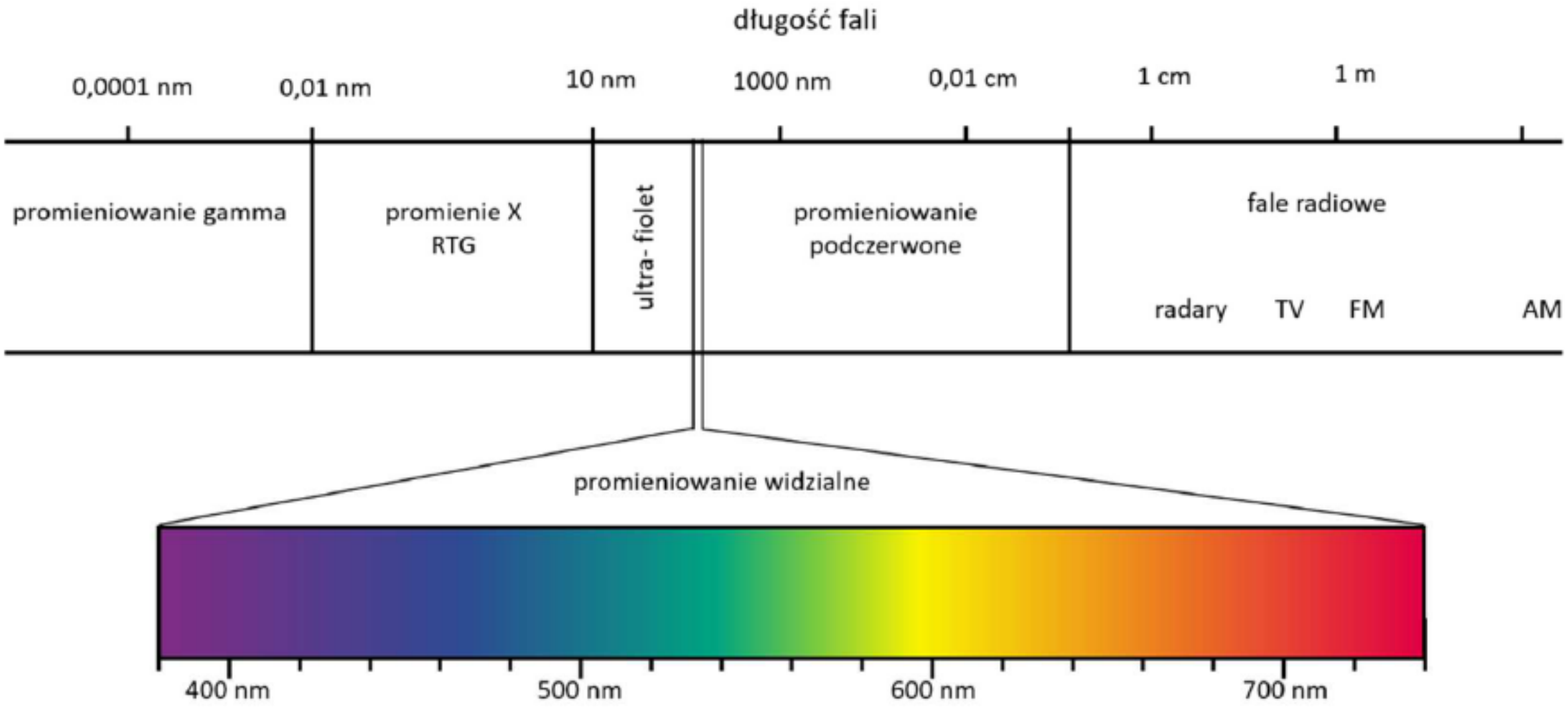
Poland esero

Houston, mamy… obraz!

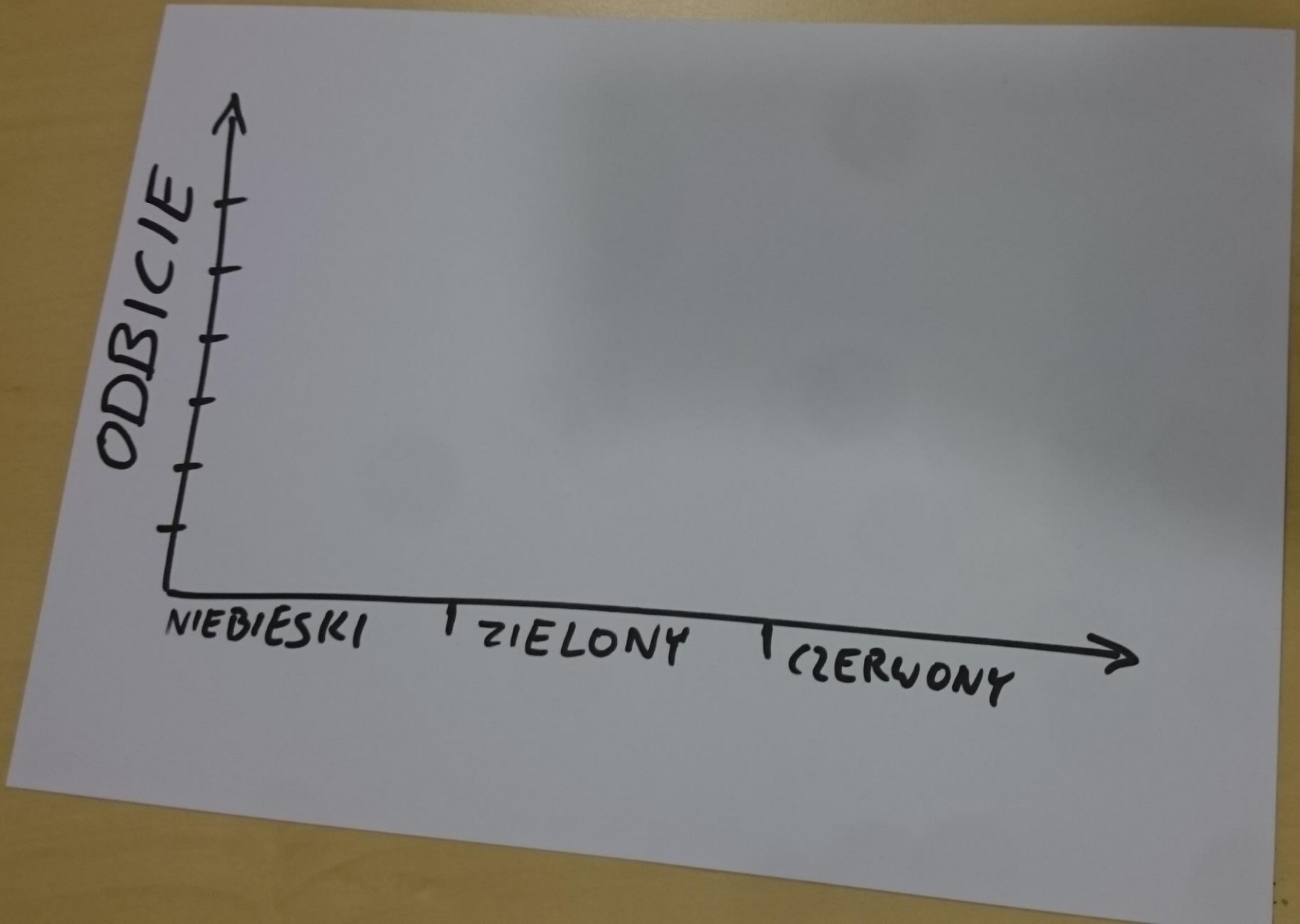

antares
DARK BLUE FILTER
PLEASE
REMOVE THE FILM
BEFORE TURNING ON

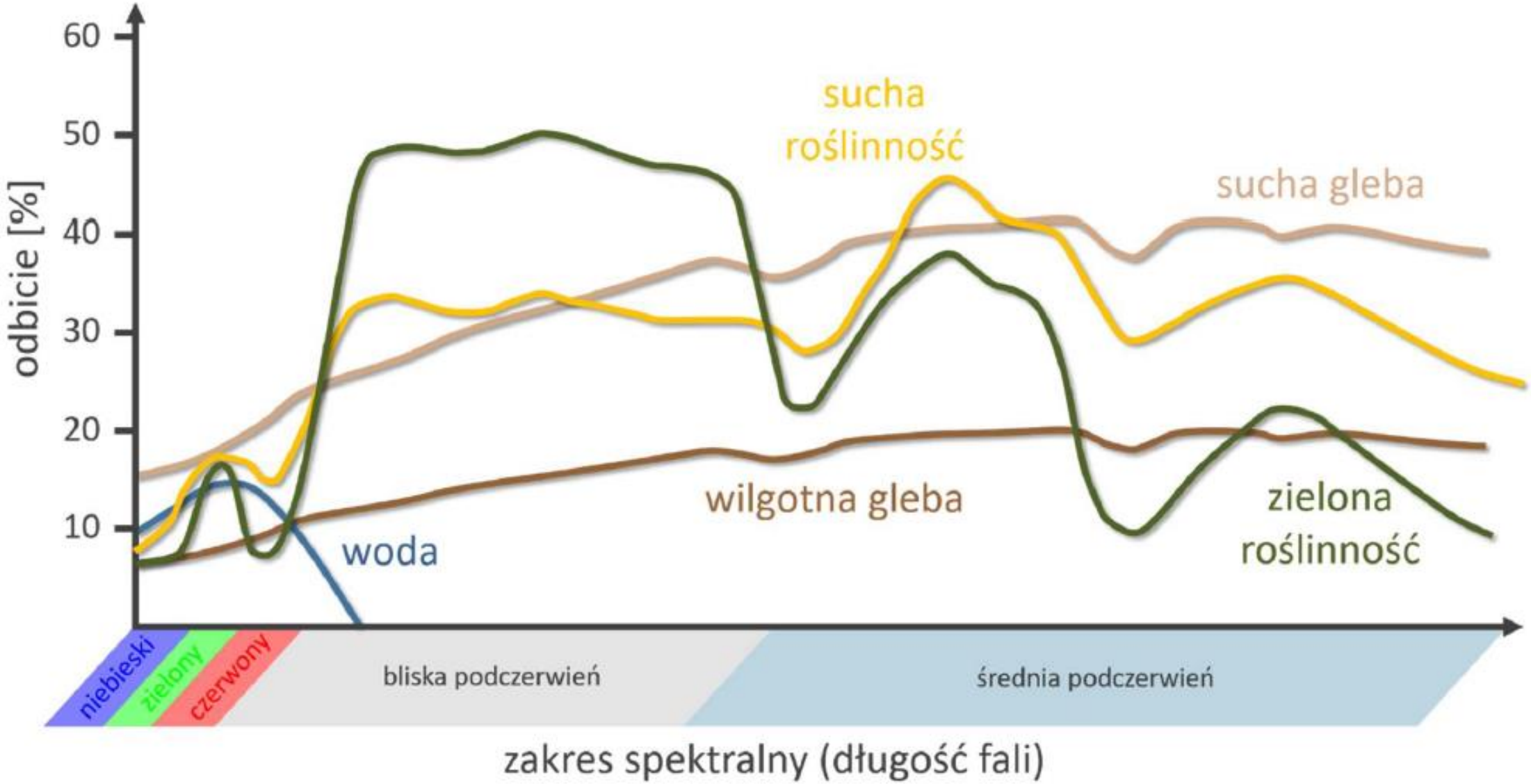
Widzenie barwne – jaka to liczba?





Rys. 2. Promieniowanie widzialne na tle szerszego zakresu promieniowania elektromagnetycznego


ODBICIE
NIEBIESKI
ZIELONY
CZERWONY


60
50
40
30
20
10
odbicie [%]
sucha roślinność
sucha gleba
wilgotna gleba
zielona roślinność
woda
niebieski
zielony
czerwony
bliska podczerwień
średnia podczerwień
zakres spektralny (długość fali)


60
50
40
30
20
10
odbicie [%]
sucha roślinność
sucha gleba
wilgotna gleba
zielona roślinność
woda
niebieski
zielony
czerwony
bliska podczerwień
średnia podczerwień
zakres spektralny (długość fali)

eo browser - Google Search

https://www.google.com/search?q=eo+browser&oq=eo+browser&aqs=chrome..69i57j69i60l2j35i39j0l2.1671j0j9&sourceid=chrome&ie=UTF-8

ESERO | kop/esero | Sharepoint | Cansat2019_22.09.xls | Where is Thengar Ch | Indonesia Earthquake | A Look at the Risks o | Sentinel-1 warns of r | Kosmonauta.net

Google

eo browser

All | Images | News | Videos | Maps | More | Settings | Tools

About 189,000,000 results (0.41 seconds)

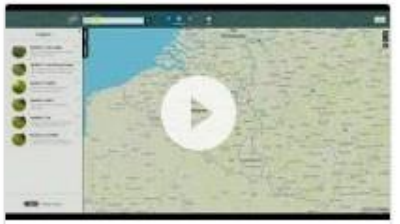
Sentinel-hub EO-Browser
https://apps.sentinel-hub.com/eo-browser/
You've visited this page many times. Last visit: 1/23/18

EO Browser | Sentinel
https://www.sentinel-hub.com/explore/eobrowser
EO Browser makes it possible to browse and compare full resolution images from the sources mentioned above. You simply go to your area of interest, select ...
You've visited this page 2 times. Last visit: 9/24/18

Videos

EO Browser Summer

ID 131 WebAssembly



Terrascope on Twitter:

176_LunarGHabstr....pdf | 08_Lunar-Sorrento....pdf | spotlight-blood-i....mp4 | 1-s2.0-S09242716....pdf | Pokaż wszystkie

22:46
24.10.2018

EO Browser

Login

Search | Results | Visualization | Pins

Data sources:

- [ ] Sentinel-1
- [x] Sentinel-2
  - [x] L1C
  - [ ] L2A

Max. cloud coverage: 100 %

- [ ] Landsat
- [ ] MODIS
- [ ] Proba-V
- [ ] GIBS

Time range:

2018-09-24 - 2018-10-24

Theme:

Login to use custom configuration instances.

Search

Error retrieving additional data!
These are theme parts which contain unavailable data sources:

- Landsat 5 ESA
- Landsat 7 ESA
- Landsat 8 ESA
- Sentinel-1 EOCloud GRD IW

Free sign up for all features

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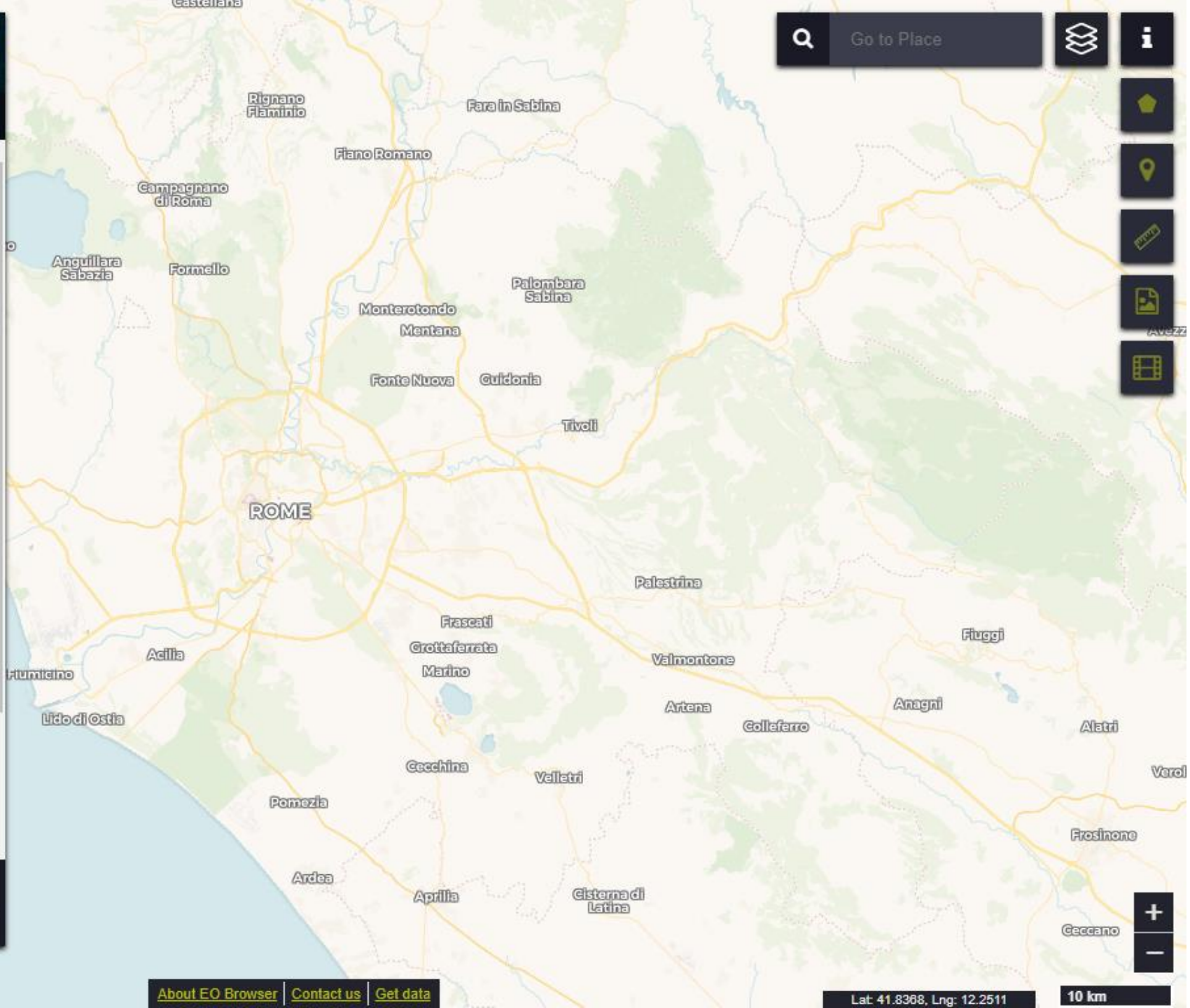
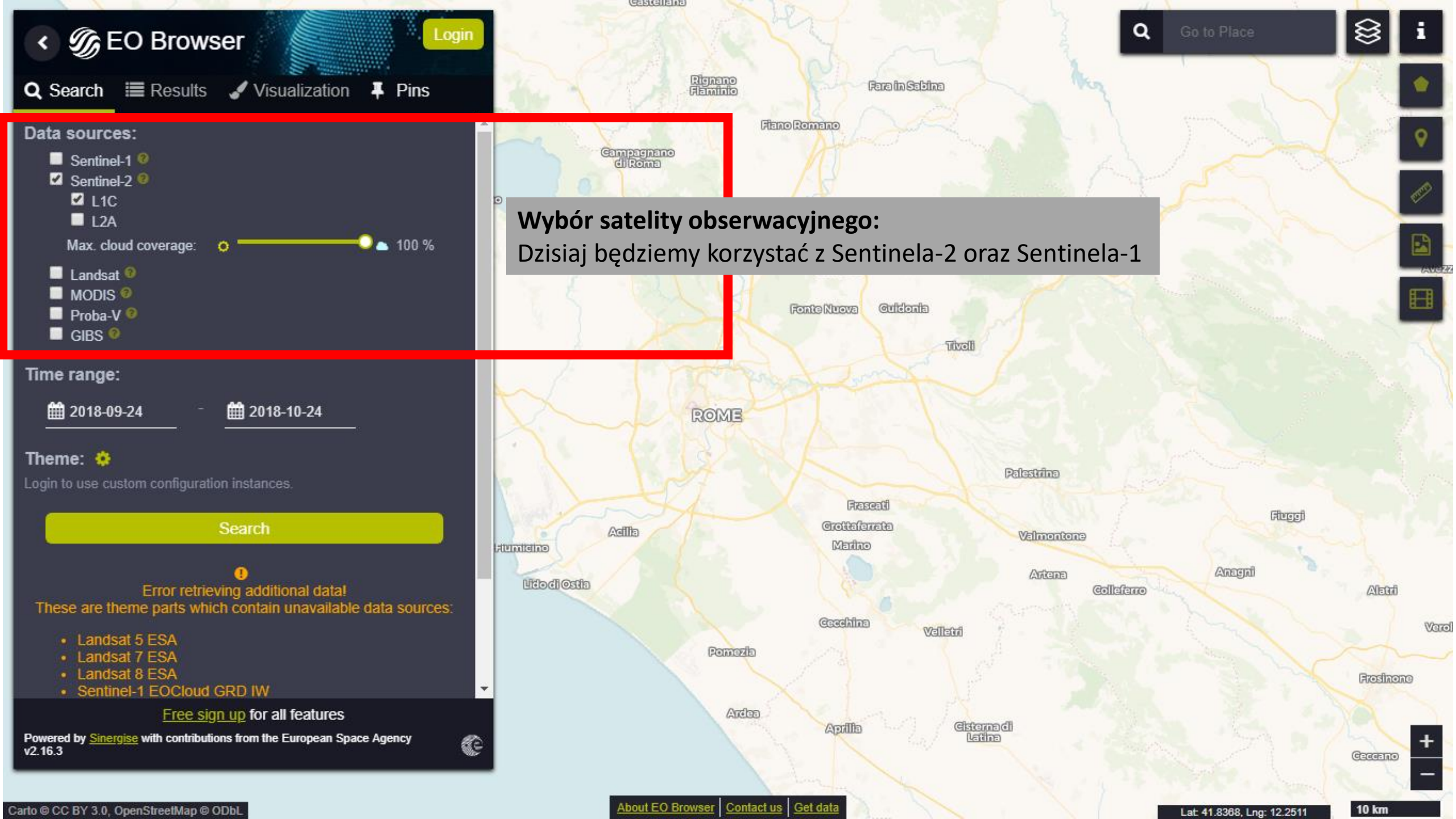
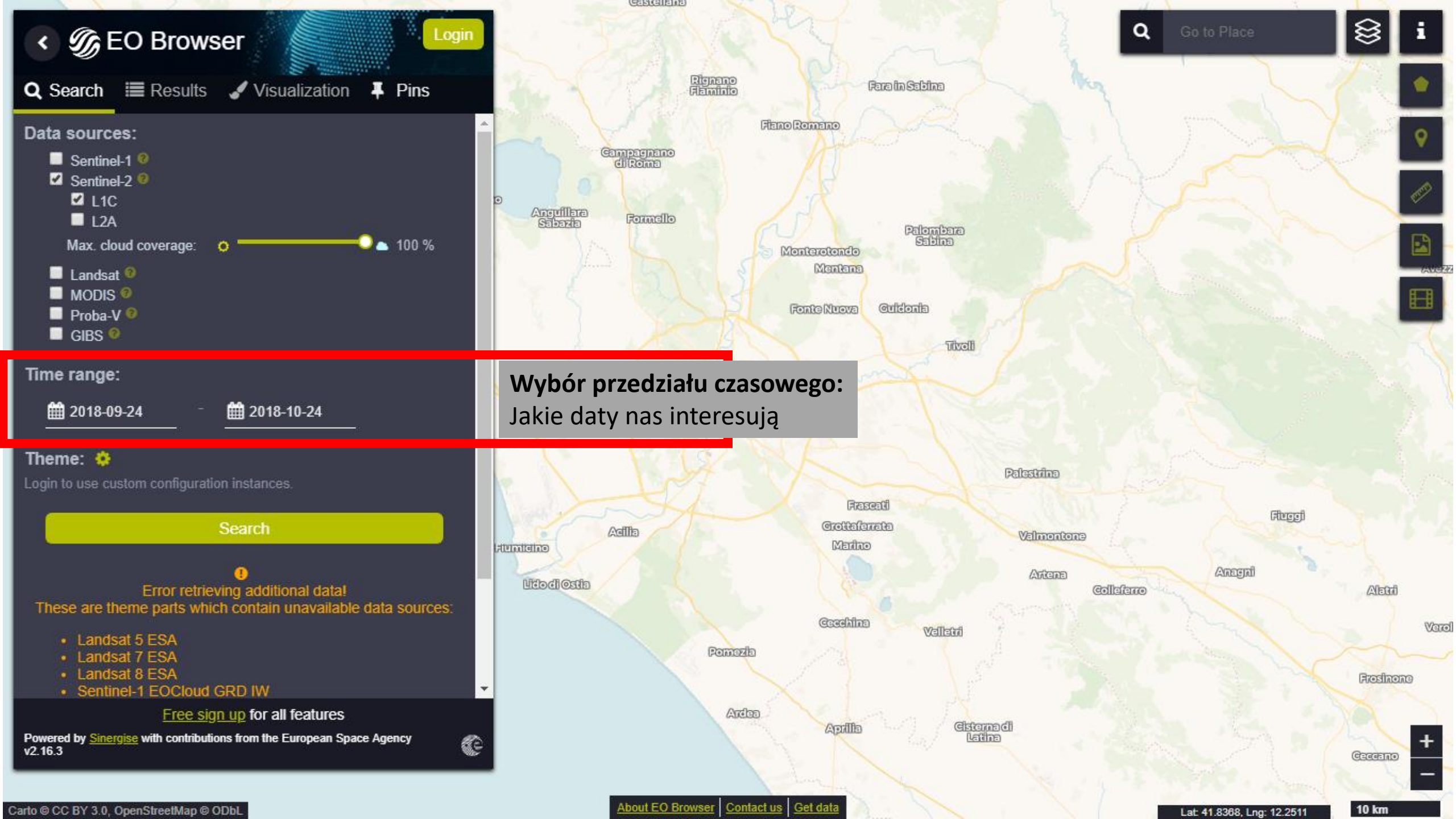
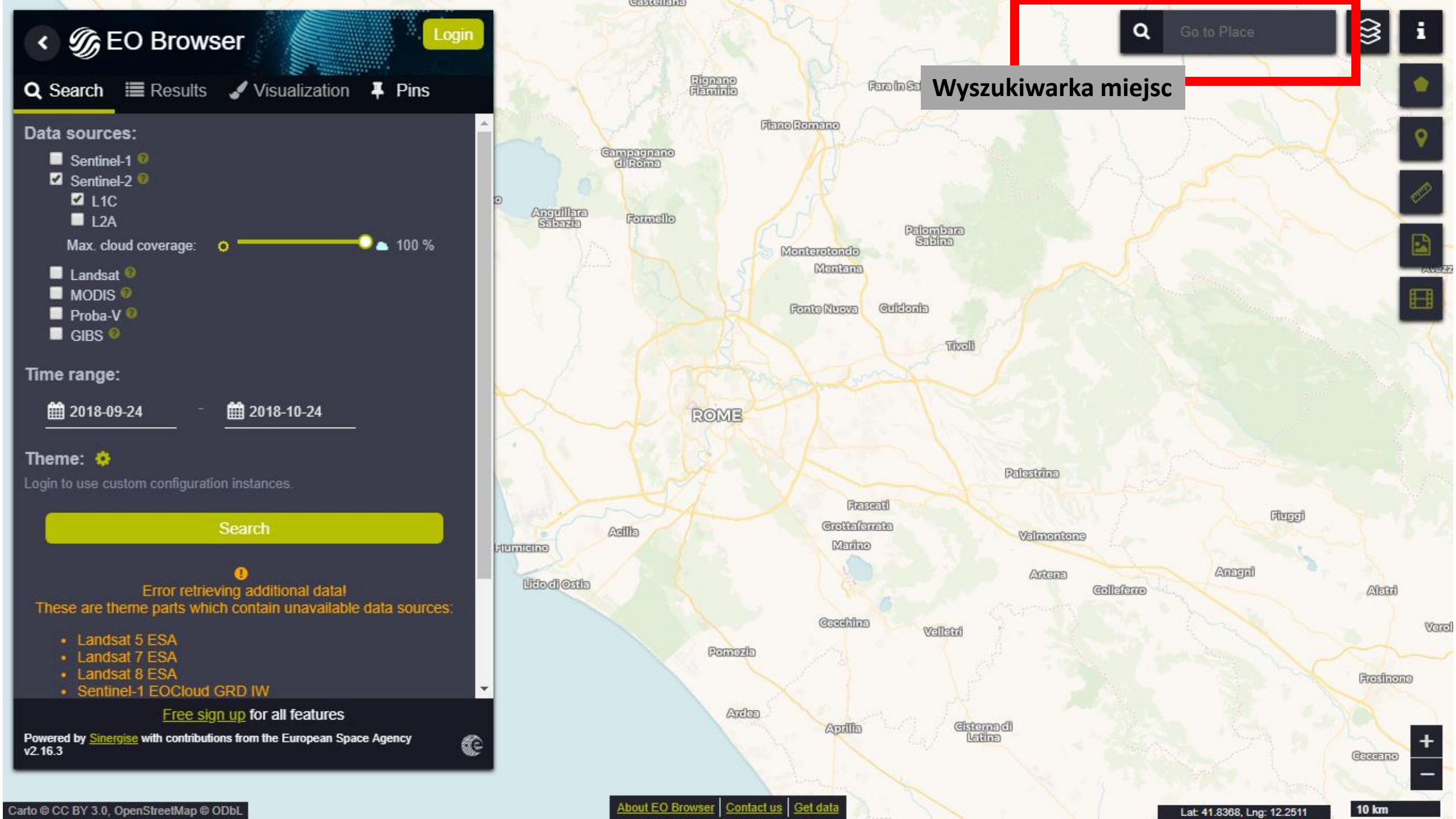




Wybór satelity obserwacyjnego:
Dzisiaj będziemy korzystać z Sentinela-2 oraz Sentinela-1



Wybór przedziału czasowego:
Jakie daty nas interesują


EO Browser
Login
Search
Results
Visualization
Pins
Data sources:
Sentinel-1
Sentinel-2
L1C
L2A
Max. cloud coverage:
100 %
Landsat
MODIS
Proba-V
GIBS
Time range:
2018-09-24
2018-10-24
Theme:
Login to use custom configuration instances.
Search
Error retrieving additional data!
These are theme parts which contain unavailable data sources:
Landsat 5 ESA
Landsat 7 ESA
Landsat 8 ESA
Sentinel-1 EOCloud GRD IW
Free sign up for all features
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Go to Place
Wyszukiwarka miejsc
Rignano Flaminio
Fiano Romano
Campagnano di Roma
Anguillara Sabazia
Formello
Palombara Sabina
Monterotondo
Mentana
Fonte Nuova
Guidonia
Tivoli
ROME
Palestrina
Frascati
Grottaferrata
Marino
Acilia
Fiumicino
Lido di Ostia
Valmontone
Artena
Colleferro
Anagni
Fiuggi
Alatri
Cecchina
Velletri
Pomezia
Frosinono
Ardea
Aprilia
Cisterna di Latina
Ceccano
Carto © CC BY 3.0, OpenStreetMap © ODbL
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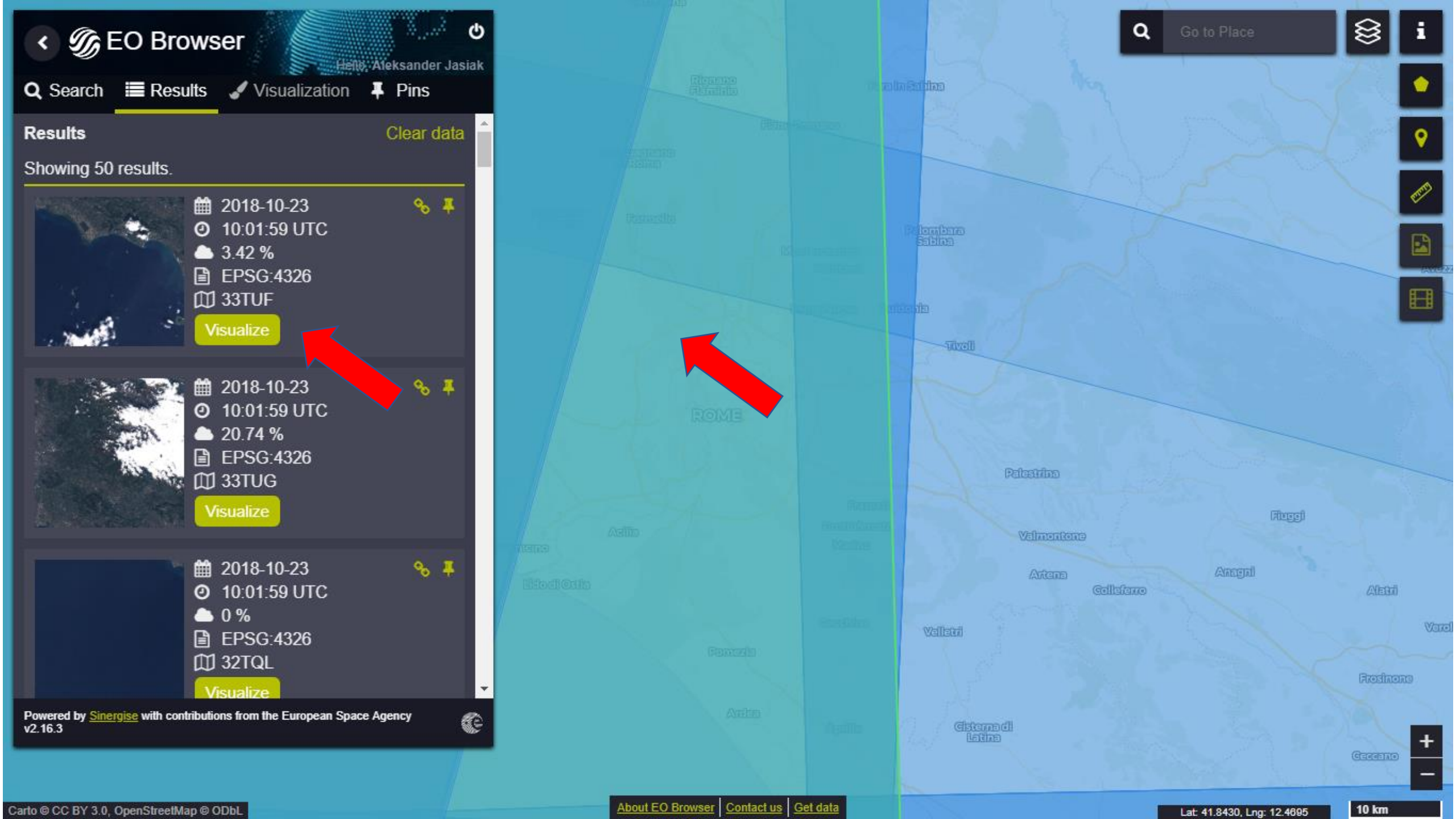
Get data
Lat: 41.8368, Lng: 12.2511
10 km


EO Browser
Hello, Aleksander Jasiak
Search
Results
Visualization
Pins
Results
Clear data
Showing 50 results.
2018-10-23
10:01:59 UTC
3.42 %
EPSG:4326
33TUF
Visualize
2018-10-23
10:01:59 UTC
20.74 %
EPSG:4326
33TUG
Visualize
2018-10-23
10:01:59 UTC
0 %
EPSG:4326
32TQL
Visualize
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v2.16.3
Go to Place
ROME
Tivoli
Palestrina
Valmontone
Artena
Colleferro
Anagni
Fiuggi
Alatri
Velletri
Frosinone
Cisterna di Latina
Ceccano
Carto © CC BY 3.0, OpenStreetMap © ODbL
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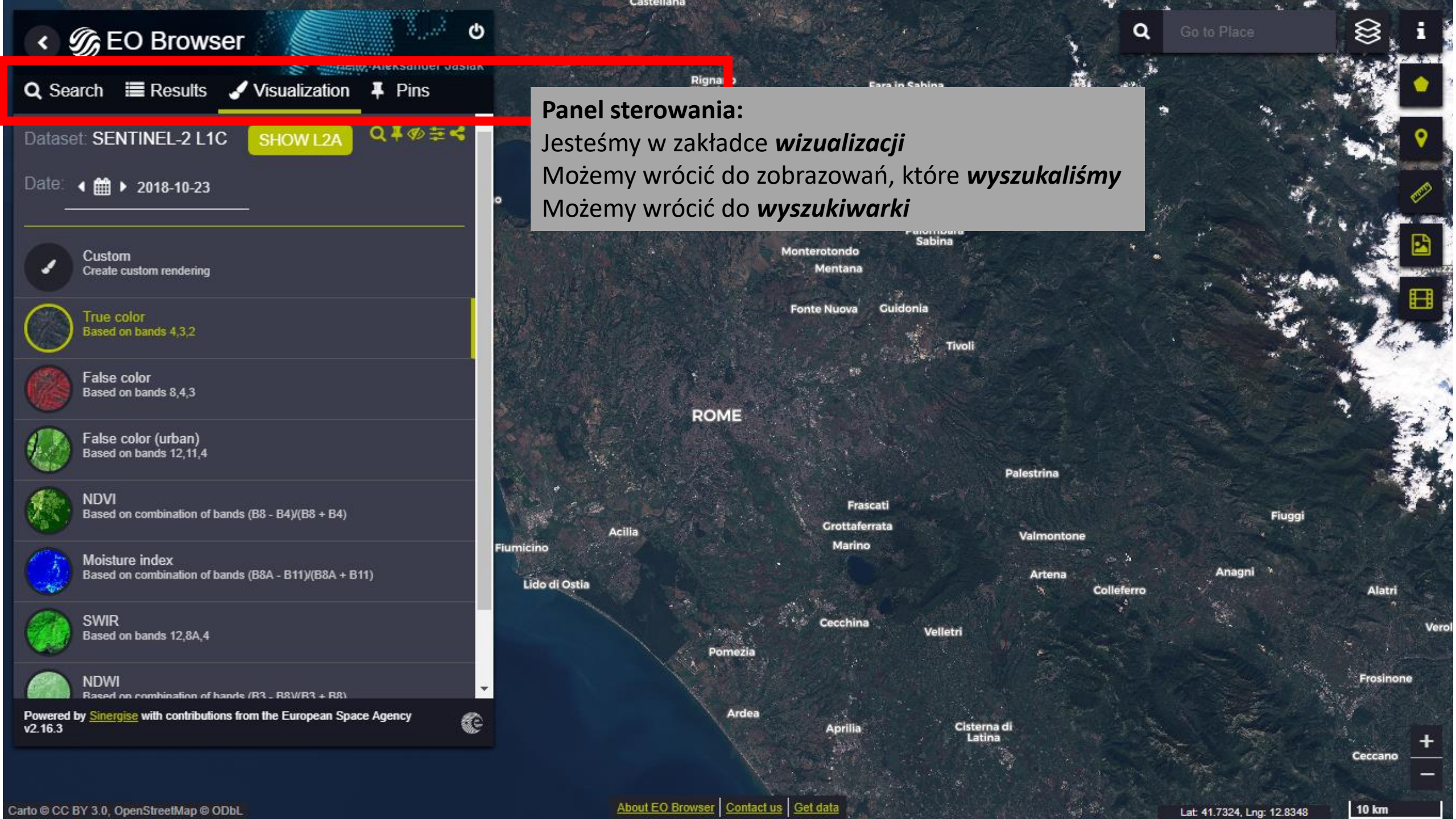
Get data
Lat: 41.8430, Lng: 12.4695
10 km

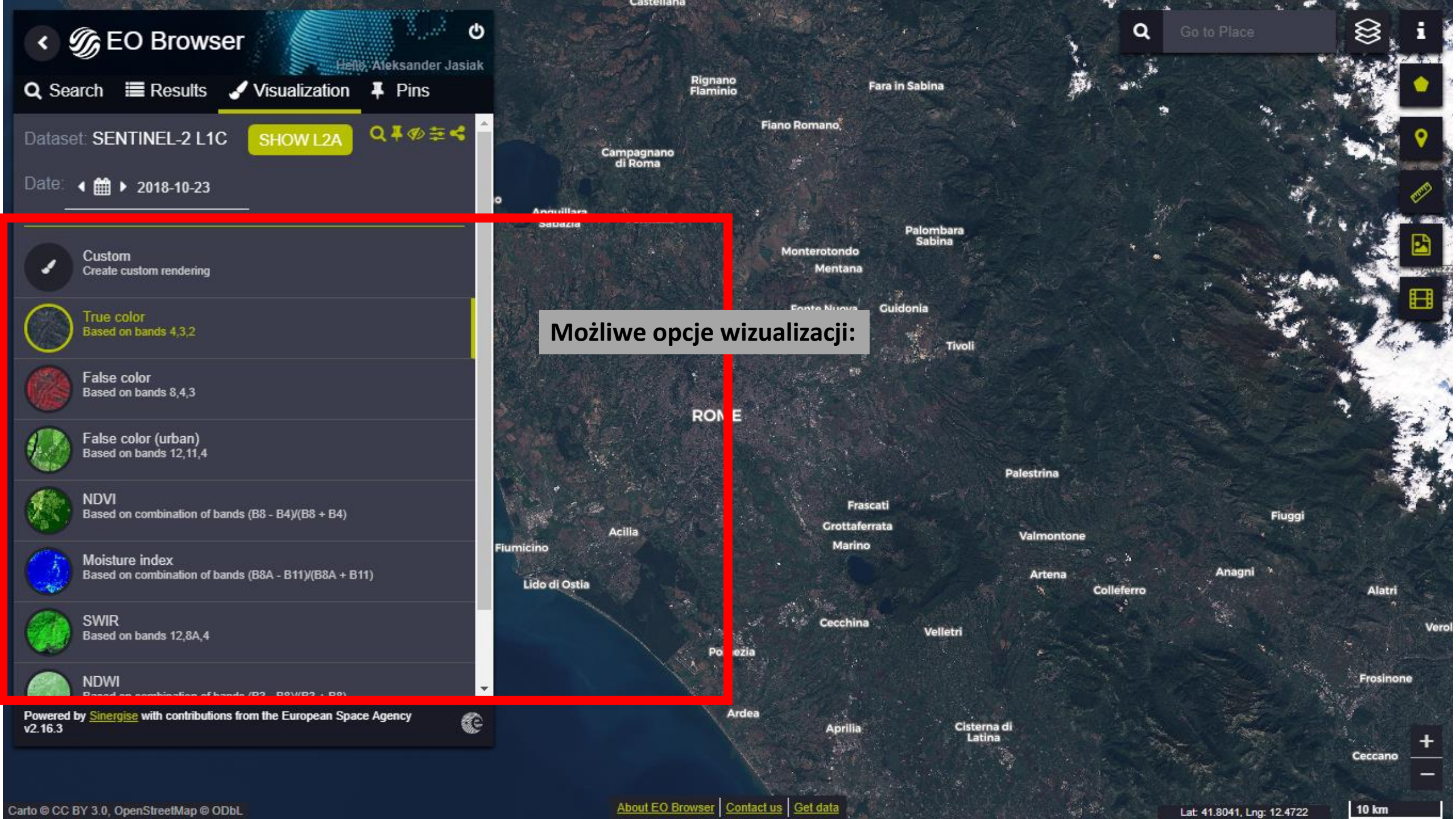


Panel sterowania:

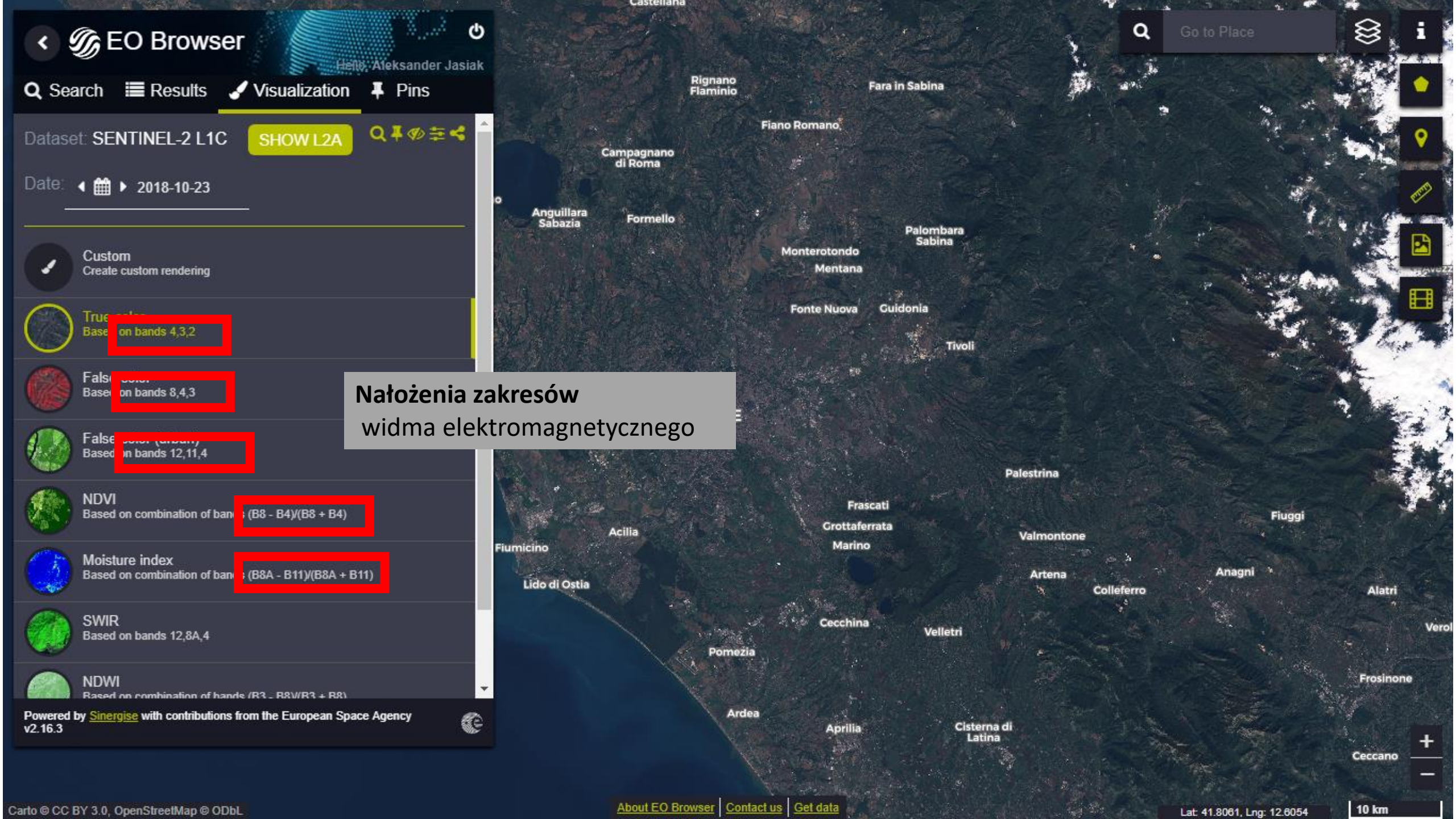
Jesteśmy w zakładce ***wizualizacji***

Możemy wrócić do zobrazowań, które ***wyszukaliśmy***

Możemy wrócić do ***wyszukiwarki***

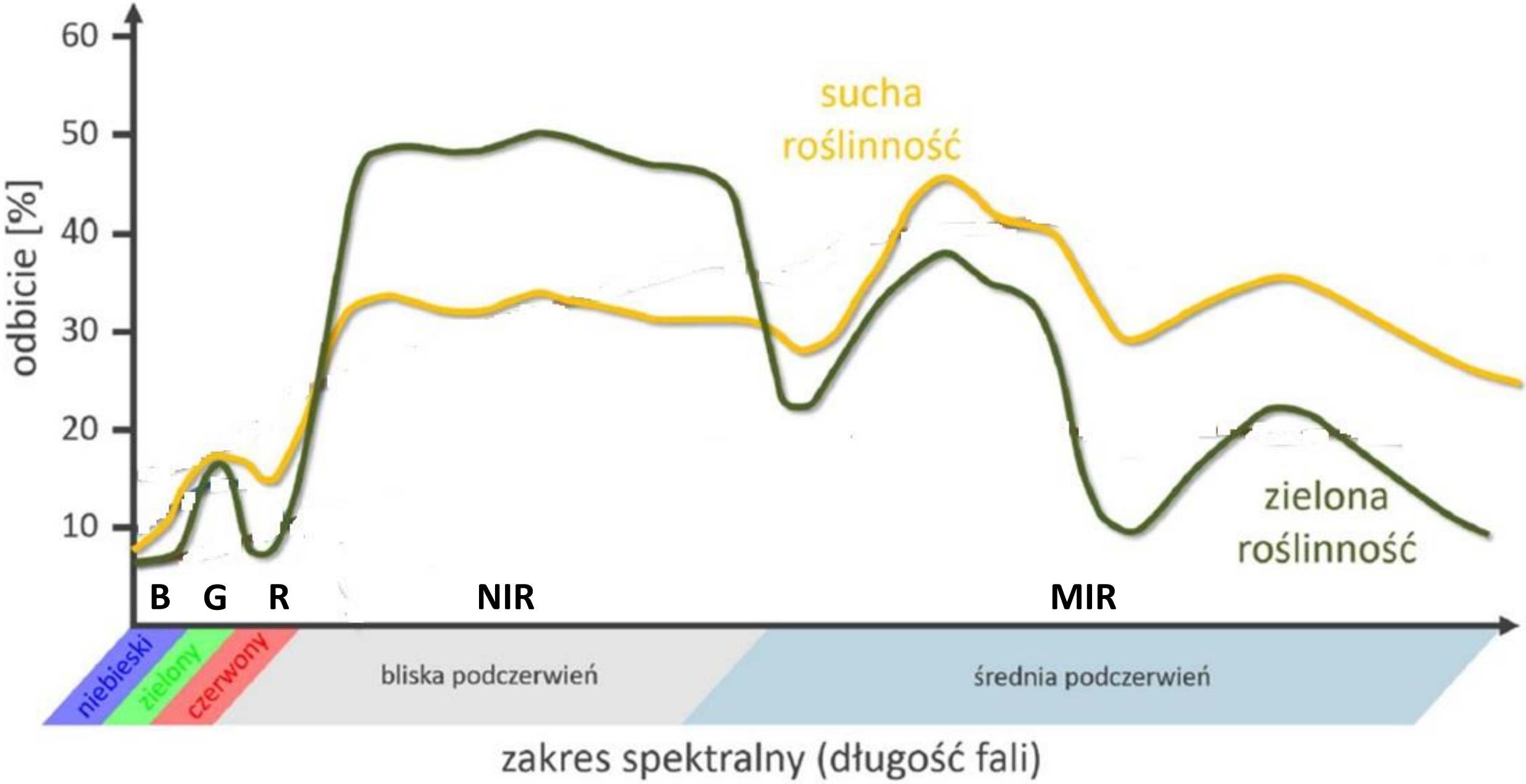


Możliwe opcje wizualizacji:



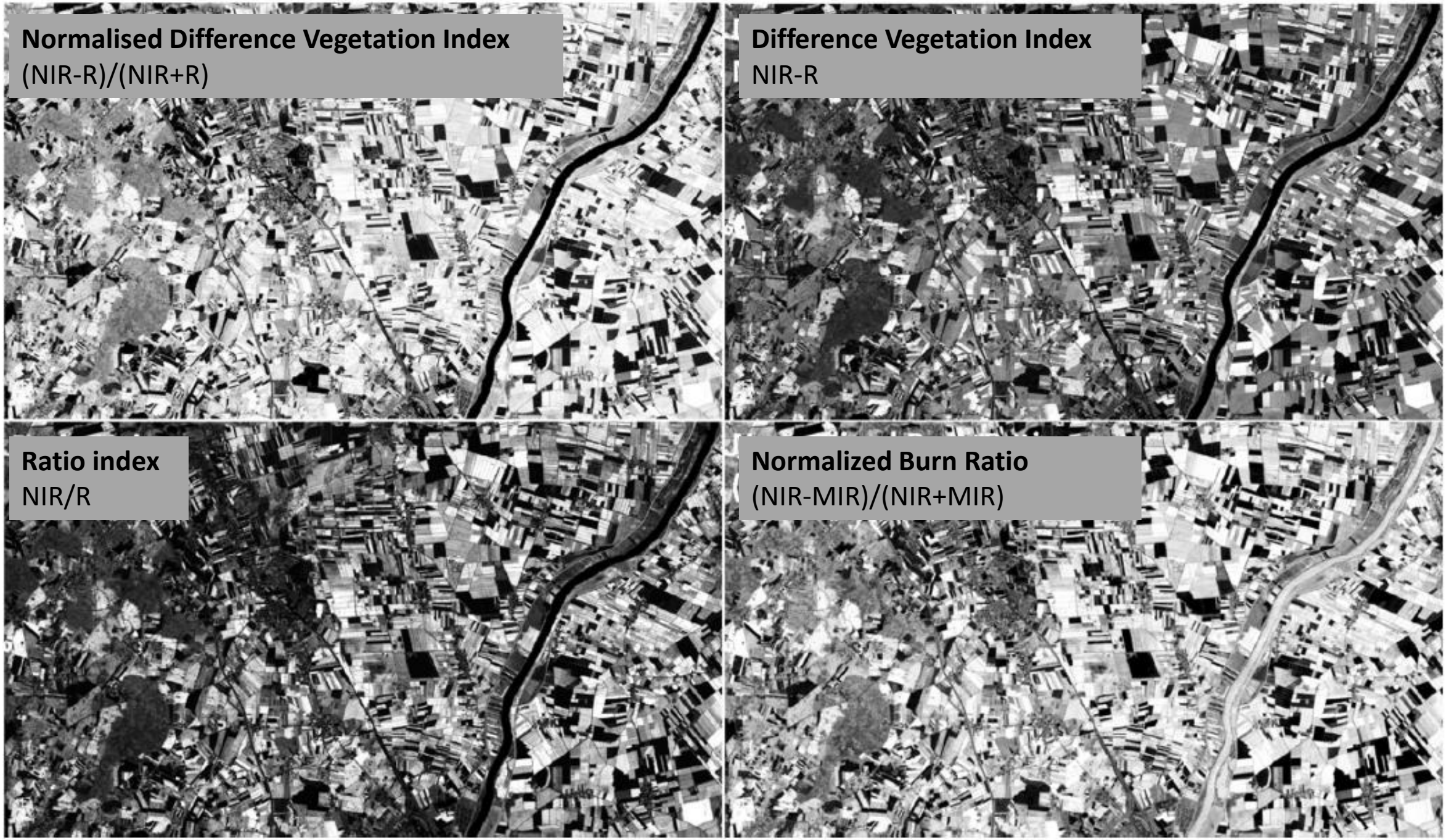
Nałożenia zakresów
widma elektromagnetycznego

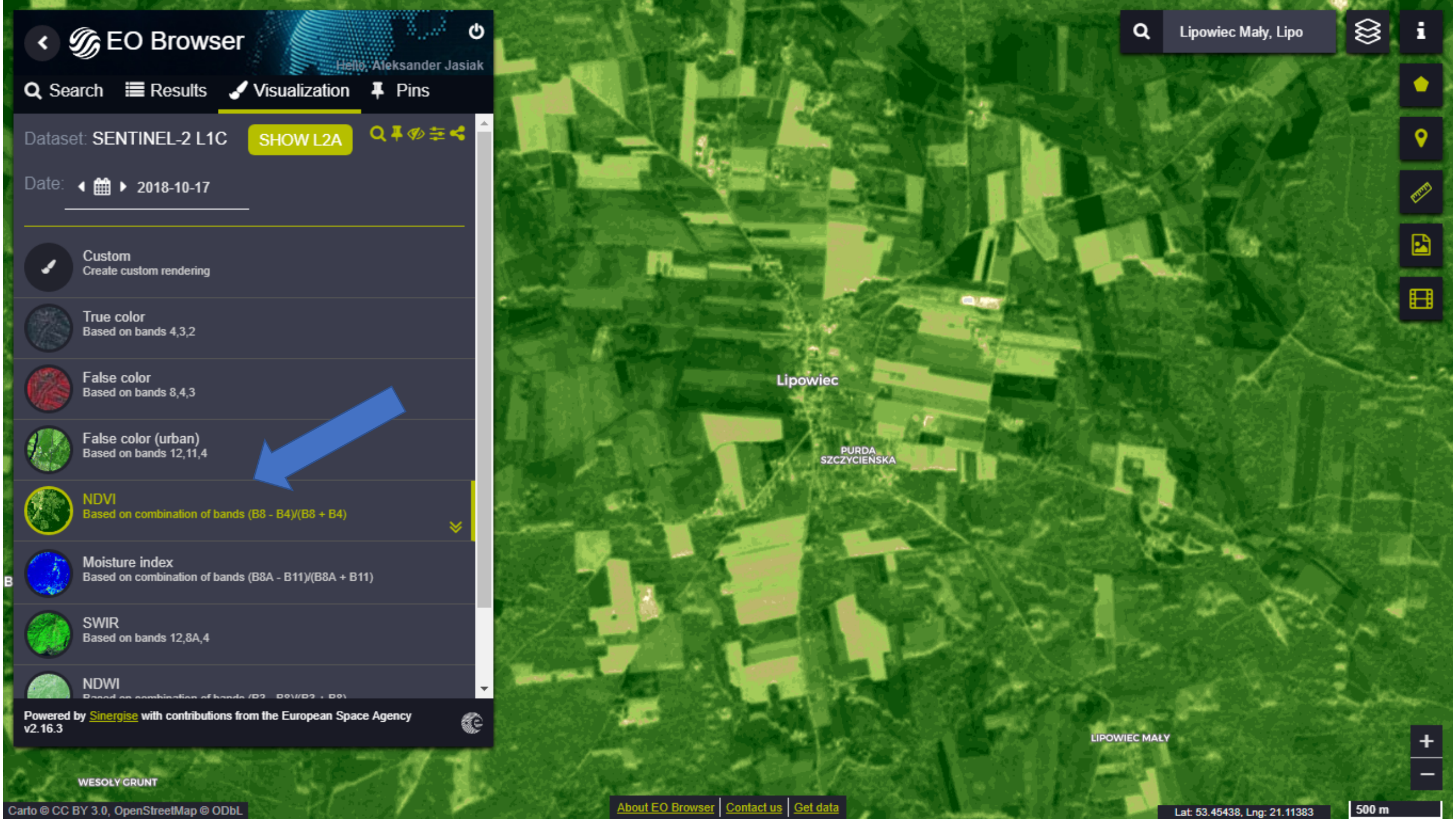
Zdjęcie w zakresie czerwonym


60
50
40
30
20
10
odbicie [%]
sucha
roślinność
zielona
roślinność
B
G
R
NIR
MIR
niebieski
zielony
czerwony
bliska podczerwień
średnia podczerwień
zakres spektralny (długość fali)

NDVI – „znormalizowany różnicowy wskaźnik roślinności”

$$NDVI=(NIR-R)/(NIR+R)$$


Normalised Difference Vegetation Index
(NIR-R)/(NIR+R)
Difference Vegetation Index
NIR-R
Ratio index
NIR/R
Normalized Burn Ratio
(NIR-MIR)/(NIR+MIR)


EO Browser
Hello, Aleksander Jasiak
Search
Results
Visualization
Pins
Dataset: SENTINEL-2 L1C
SHOW L2A
Date: 2018-10-17
Custom
Create custom rendering
True color
Based on bands 4,3,2
False color
Based on bands 8,4,3
False color (urban)
Based on bands 12,11,4
NDVI
Based on combination of bands (B8 - B4)/(B8 + B4)
Moisture index
Based on combination of bands (B8A - B11)/(B8A + B11)
SWIR
Based on bands 12,8A,4
NDWI
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Lipowiec Mały, Lipo
Lipowiec
PURDA SZCZYCIEŃSKA
LIPOWIEC MAŁY
WESOŁY GRUNT
Carto © CC BY 3.0, OpenStreetMap © ODbL
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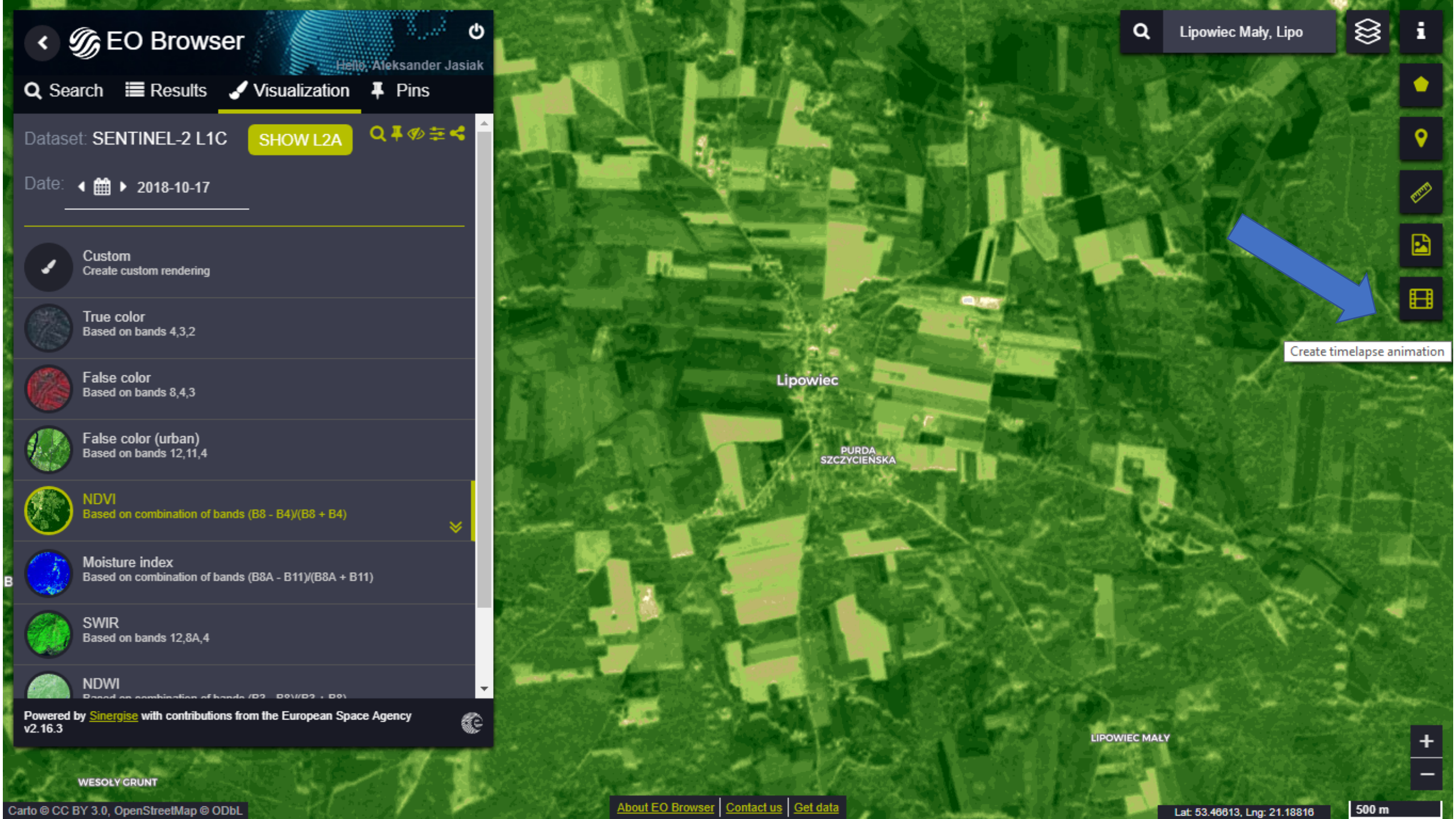
Get data
Lat: 53.45438, Lng: 21.11383
500 m


EO Browser
Hello, Aleksander Jasiak
Search
Results
Visualization
Pins
Dataset: SENTINEL-2 L1C
SHOW L2A
Date: 2018-10-17
Custom
Create custom rendering
True color
Based on bands 4,3,2
False color
Based on bands 8,4,3
False color (urban)
Based on bands 12,11,4
NDVI
Based on combination of bands (B8 - B4)/(B8 + B4)
Moisture index
Based on combination of bands (B8A - B11)/(B8A + B11)
SWIR
Based on bands 12,8A,4
NDWI
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Lipowiec Mały, Lipo
Create timelapse animation
Lipowiec
PURDA SZCZYCIEŃSKA
LIPOWIEC MAŁY
WESOŁY GRUNT
Carto © CC BY 3.0, OpenStreetMap © ODbL
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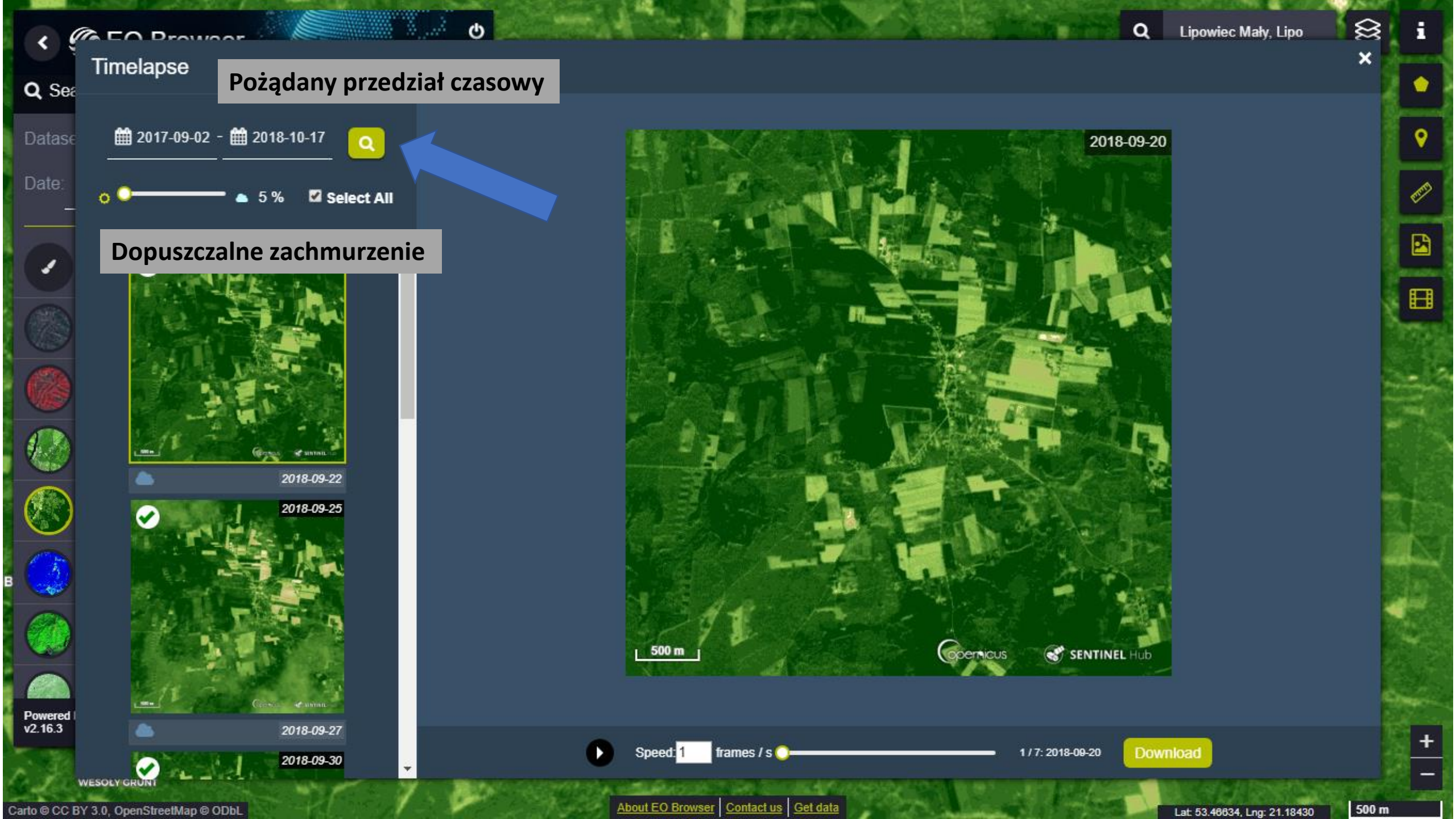
Get data
Lat: 53.46613, Lng: 21.18816
500 m


Timelapse
Pożądany przedział czasowy
2017-09-02 - 2018-10-17
5 %
Select All
Dopuszczalne zachmurzenie
2018-09-22
2018-09-25
2018-09-27
2018-09-30
2018-09-20
500 m
Speed: 1 frames / s
1 / 7: 2018-09-20
Download
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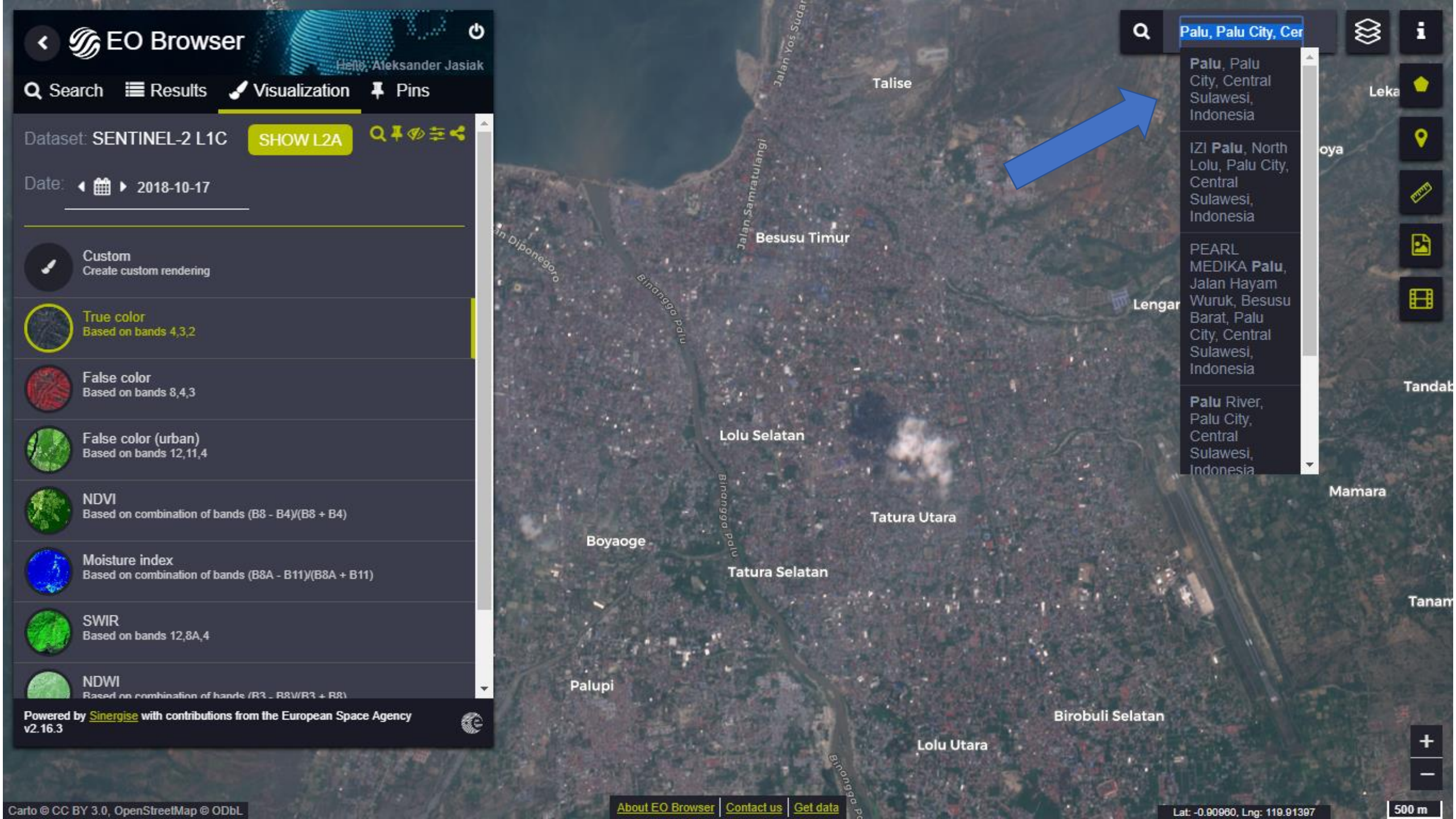
Get data
Lat: 53.46634, Lng: 21.18430
500 m

Uzyskany obraz .gif


EO Browser
Hello, Aleksander Jasiak
Search
Results
Visualization
Pins
Dataset: SENTINEL-2 L1C
SHOW L2A
Date: 2018-10-17
Custom
Create custom rendering
True color
Based on bands 4,3,2
False color
Based on bands 8,4,3
False color (urban)
Based on bands 12,11,4
NDVI
Based on combination of bands (B8 - B4)/(B8 + B4)
Moisture index
Based on combination of bands (B8A - B11)/(B8A + B11)
SWIR
Based on bands 12,8A,4
NDWI
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Palu, Palu City, Cer
Palu, Palu City, Central Sulawesi, Indonesia
IZI Palu, North Lolu, Palu City, Central Sulawesi, Indonesia
PEARL MEDIKA Palu, Jalan Hayam Wuruk, Besusu Barat, Palu City, Central Sulawesi, Indonesia
Palu River, Palu City, Central Sulawesi, Indonesia
Talise
Besusu Timur
Lolu Selatan
Tatura Utara
Boyaoge
Tatura Selatan
Palupi
Birobuli Selatan
Lolu Utara
Mamara
Tandab
Tanam
Leka
Lengar
Jalan Samratulangi
Binangga Palu
Carto © CC BY 3.0, OpenStreetMap © ODbL
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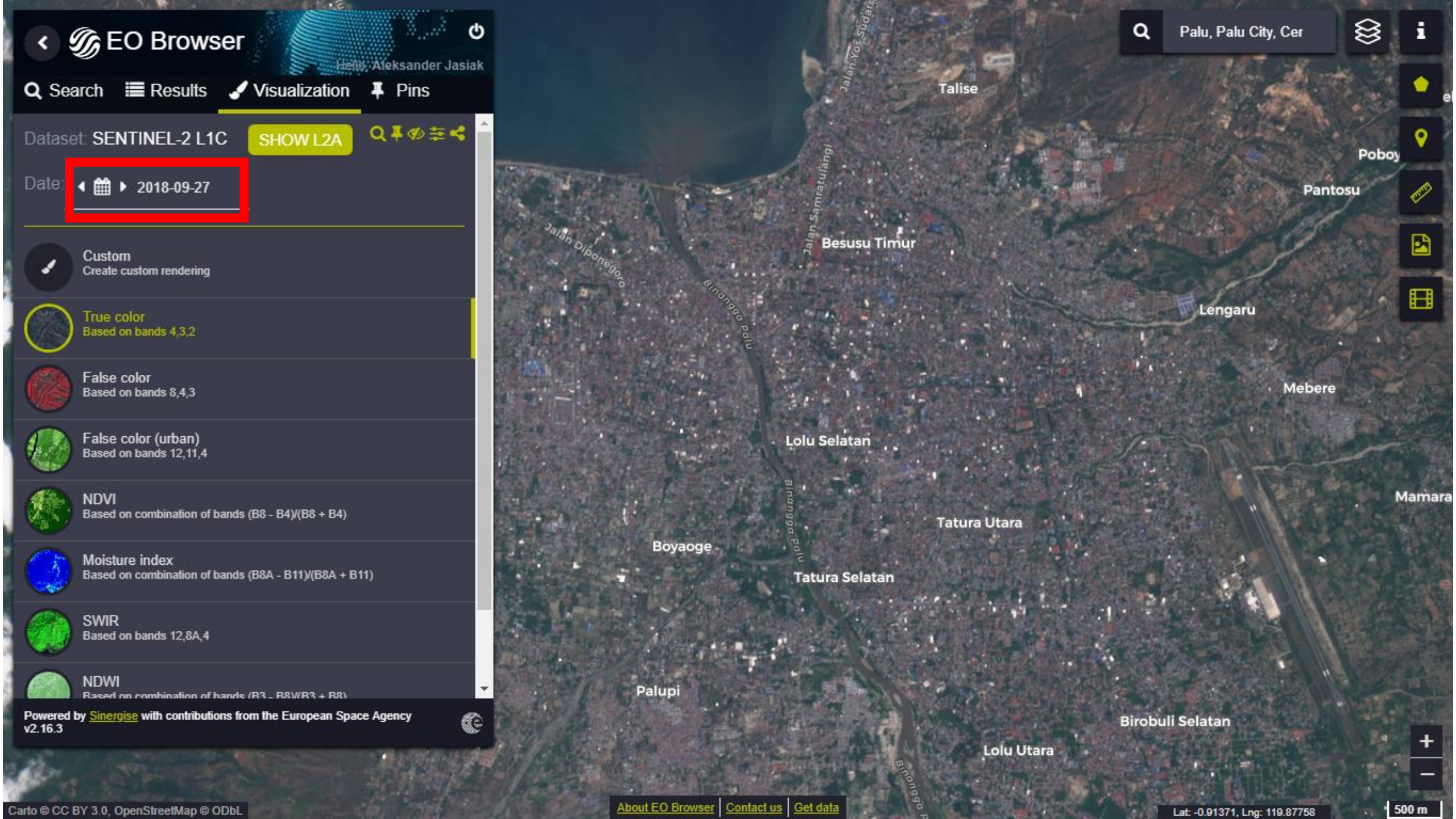
Get data
Lat: -0.90960, Lng: 119.91397
500 m


EO Browser
Hello, Aleksander Jasiak
Search
Results
Visualization
Pins
Dataset: SENTINEL-2 L1C
SHOW L2A
Date: 2018-09-27
Custom
Create custom rendering
True color
Based on bands 4,3,2
False color
Based on bands 8,4,3
False color (urban)
Based on bands 12,11,4
NDVI
Based on combination of bands (B8 - B4)/(B8 + B4)
Moisture index
Based on combination of bands (B8A - B11)/(B8A + B11)
SWIR
Based on bands 12,8A,4
NDWI
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v2.16.3
Palu, Palu City, Cer
Talise
Poboy
Pantosu
Besusu Timur
Lengaru
Mebere
Lolu Selatan
Mamara
Tatura Utara
Boyaoge
Tatura Selatan
Palupi
Birobuli Selatan
Lolu Utara
Jalan Diponegoro
Jalan Samratulangi
Binanggo Palu
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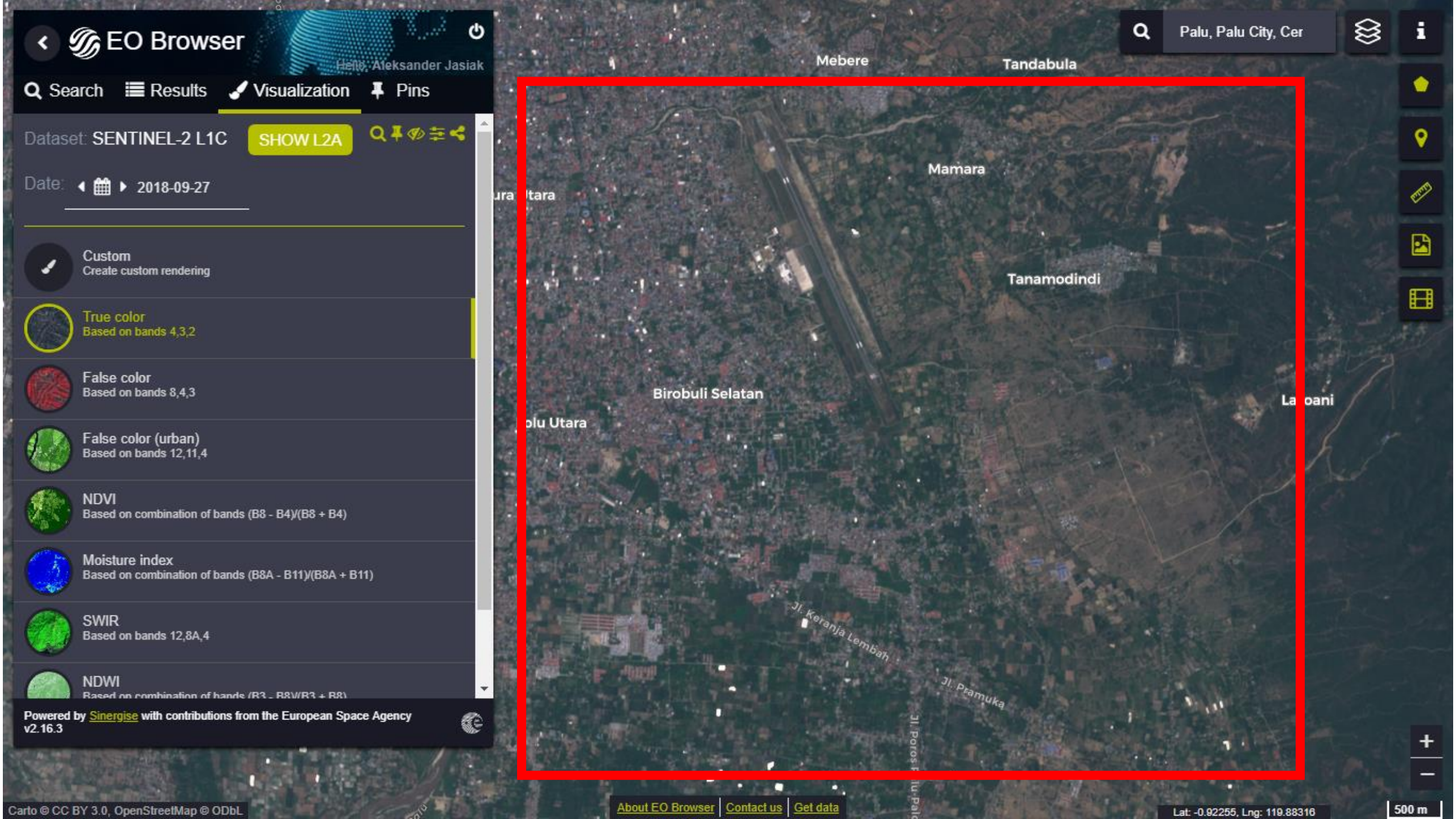
Get data
Lat: -0.91371, Lng: 119.87758
500 m


EO Browser
Hello, Aleksander Jasiak
Search
Results
Visualization
Pins
Dataset: SENTINEL-2 L1C
SHOW L2A
Date: 2018-09-27
Custom
Create custom rendering
True color
Based on bands 4,3,2
False color
Based on bands 8,4,3
False color (urban)
Based on bands 12,11,4
NDVI
Based on combination of bands (B8 - B4)/(B8 + B4)
Moisture index
Based on combination of bands (B8A - B11)/(B8A + B11)
SWIR
Based on bands 12,8A,4
NDWI
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v2.16.3
Palu, Palu City, Cer
Mebere
Tandabula
Mamara
Tanamodindi
Birobuli Selatan
Jl. Keranja Lembah
Jl. Pramuka
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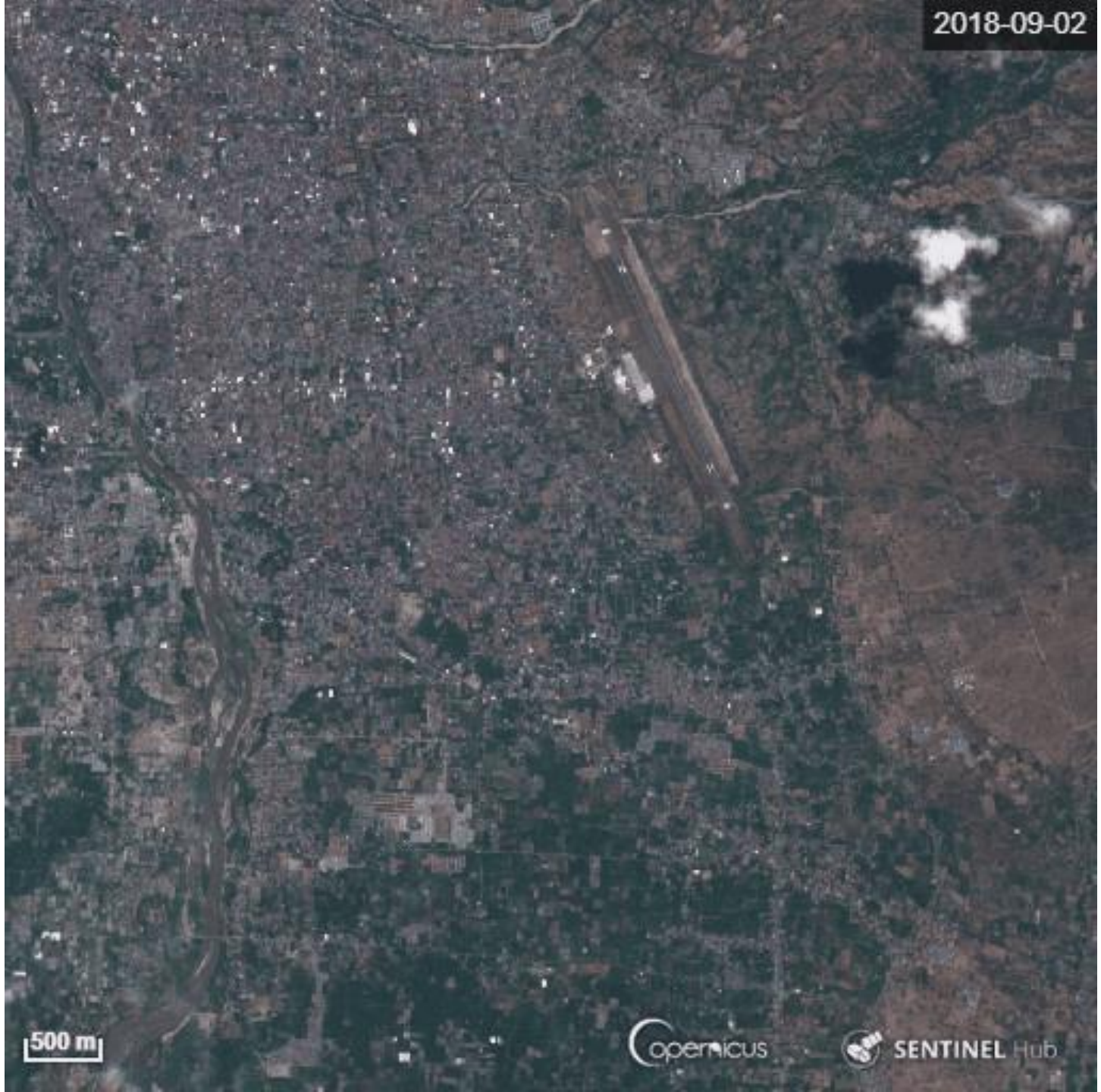
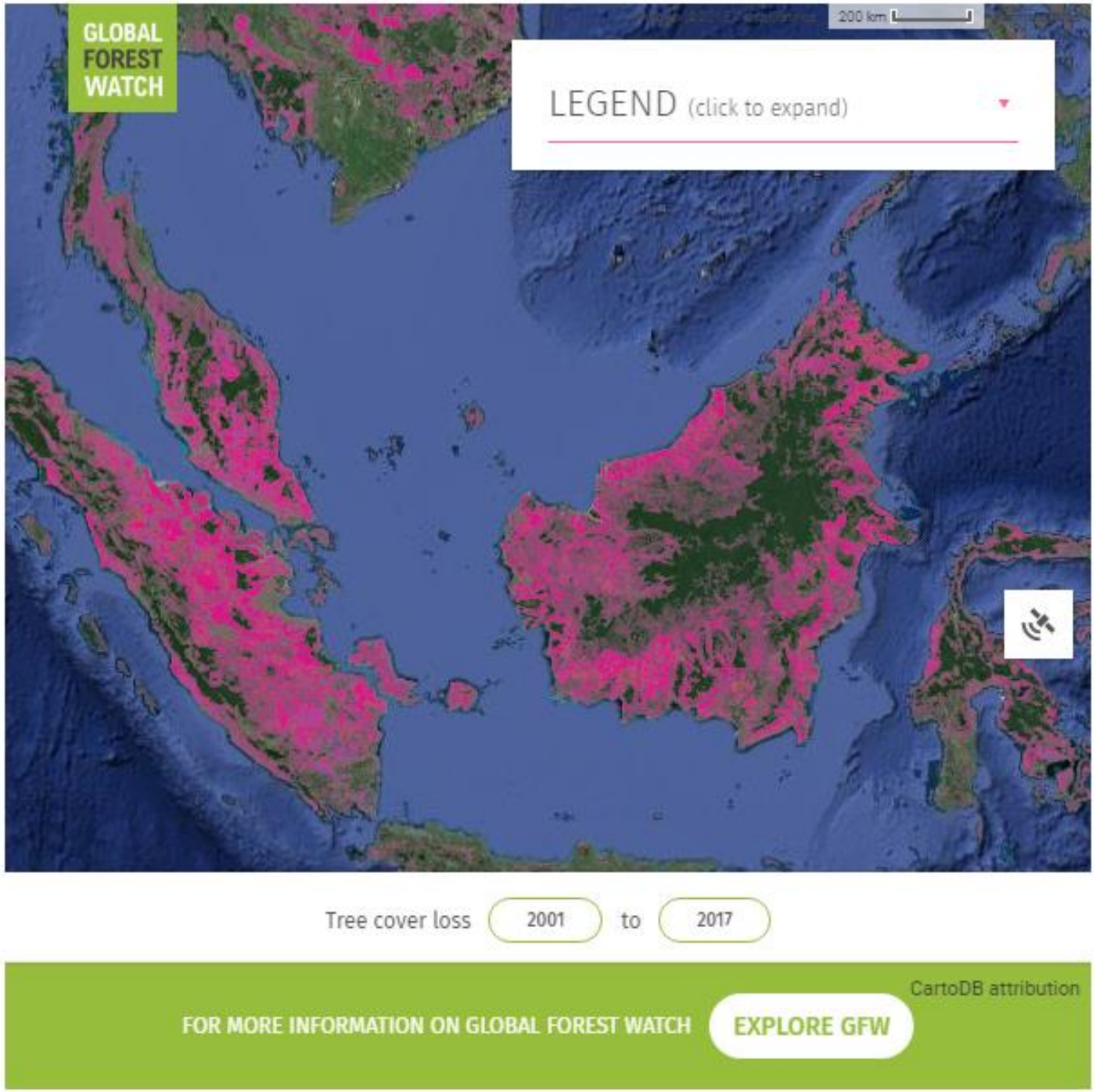
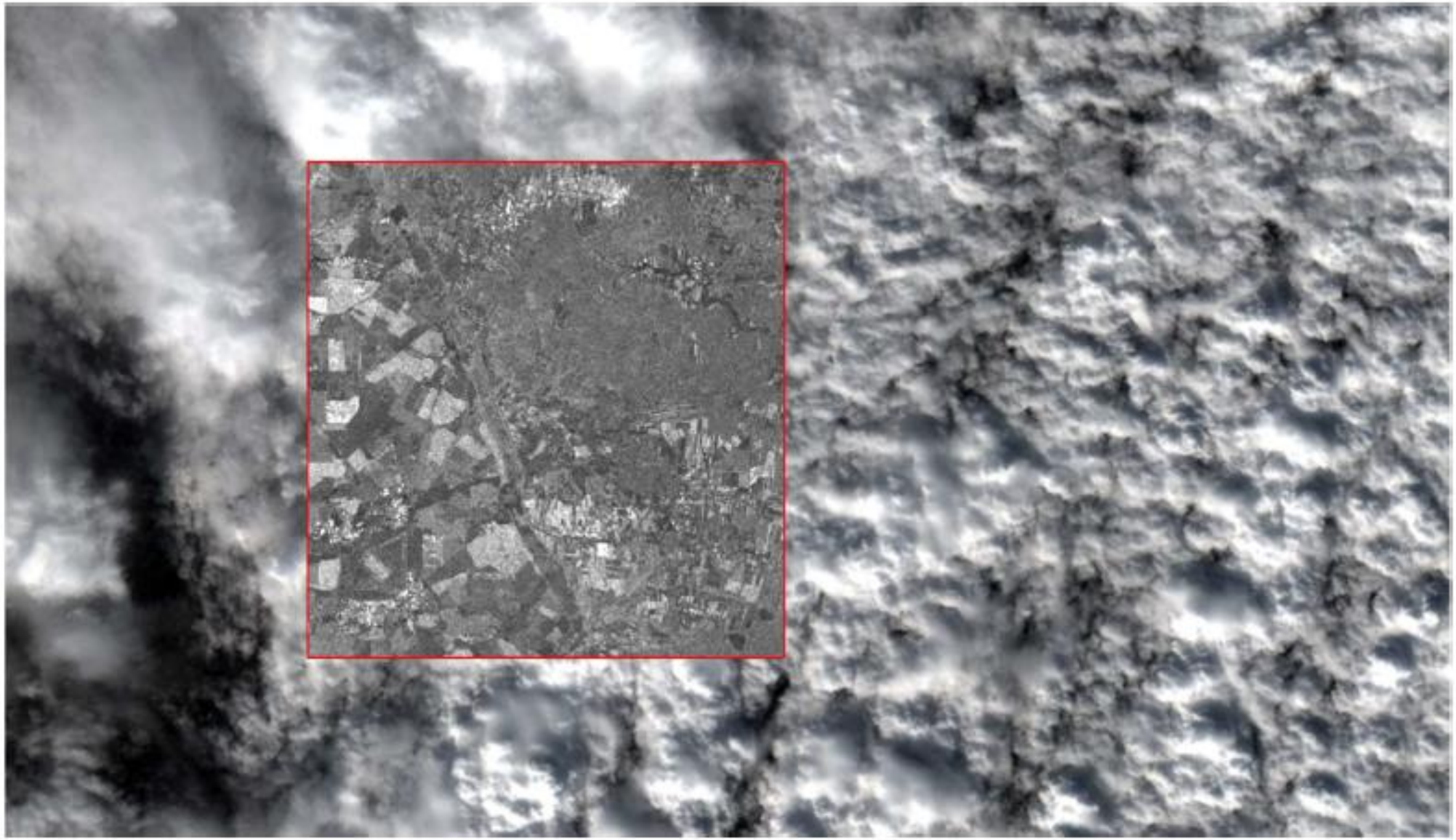
Get data
Lat: -0.92255, Lng: 119.88316
500 m

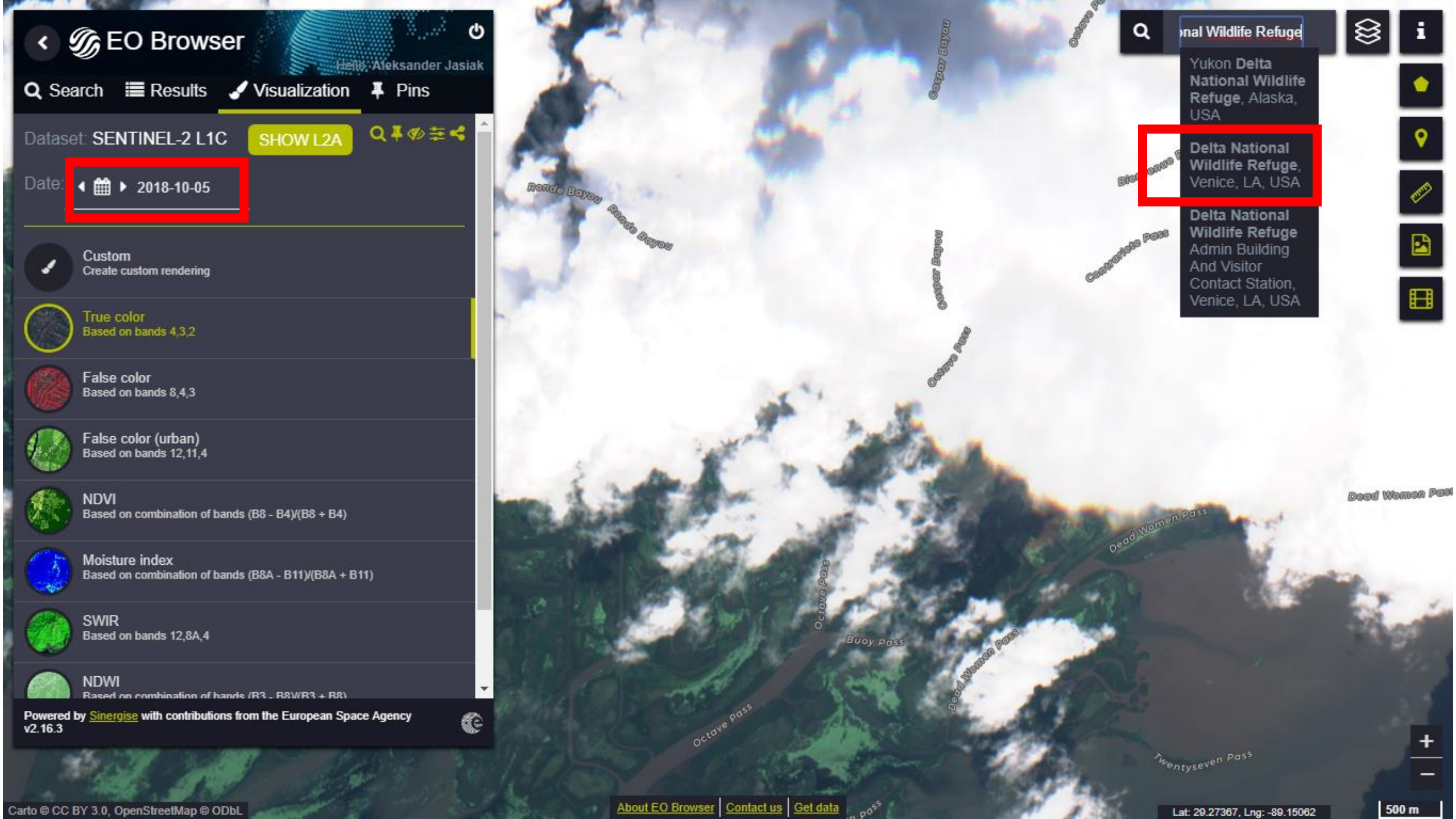
Uzyskany obraz .gif



Kolor różowy reprezentuje obszary poddane deforestacji w XXI wieku






EO Browser
Hello, Aleksander Jasiak
Search
Results
Visualization
Pins
Dataset: SENTINEL-2 L1C
SHOW L2A
Date: 2018-10-05
Custom
Create custom rendering
True color
Based on bands 4,3,2
False color
Based on bands 8,4,3
False color (urban)
Based on bands 12,11,4
NDVI
Based on combination of bands (B8 - B4)/(B8 + B4)
Moisture index
Based on combination of bands (B8A - B11)/(B8A + B11)
SWIR
Based on bands 12,8A,4
NDWI
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nal Wildlife Refuge
Yukon Delta National Wildlife Refuge, Alaska, USA
Delta National Wildlife Refuge, Venice, LA, USA
Delta National Wildlife Refuge Admin Building And Visitor Contact Station, Venice, LA, USA
Ronde Bayou
Gasper Bayou
Octave Pass
Buoy Pass
Dead Women Pass
Twentyseven Pass
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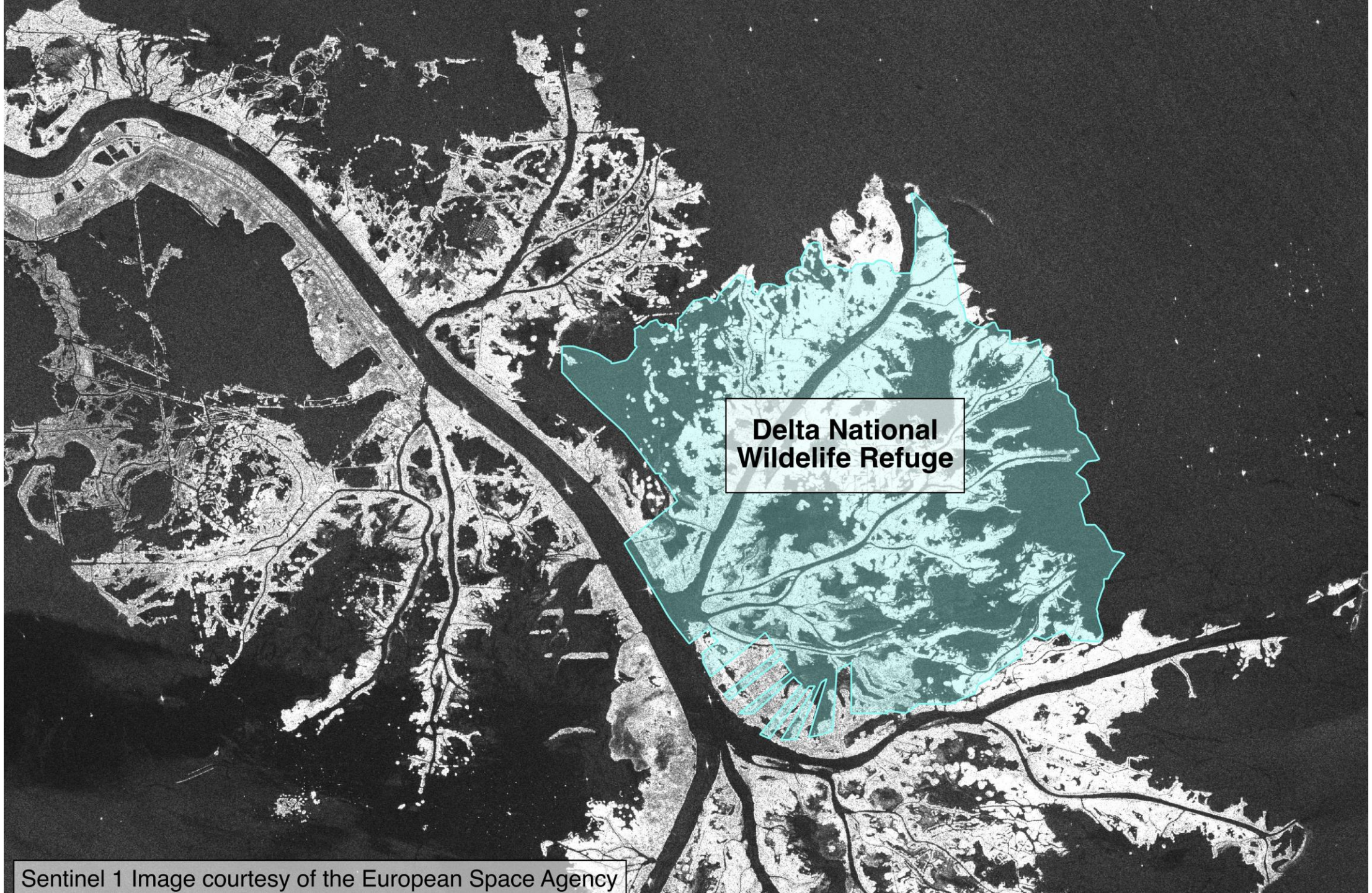
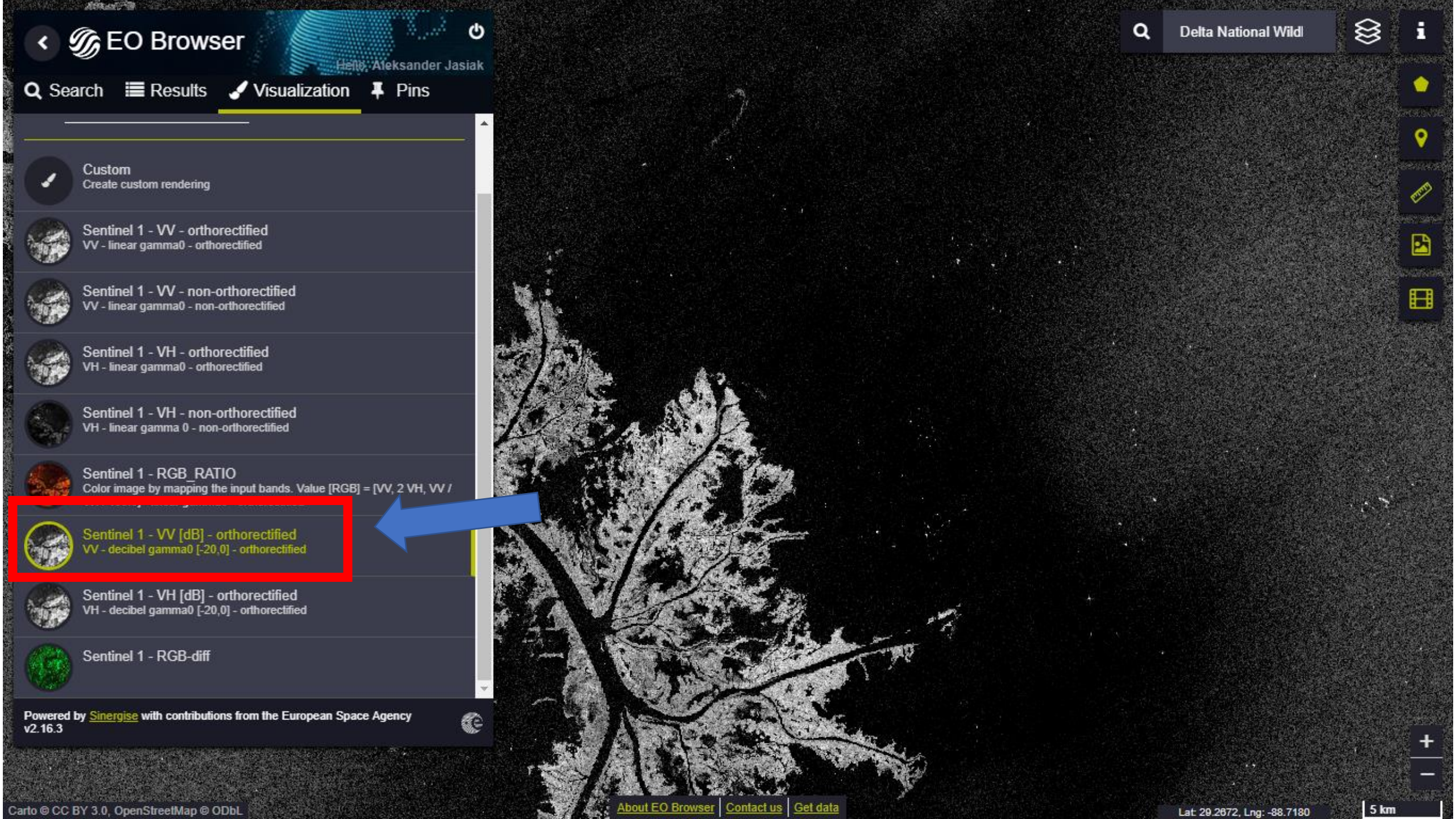
Get data
Lat: 29.27367, Lng: -89.15062
500 m



Sentinel 1 Image courtesy of the European Space Agency


EO Browser
Hello, Aleksander Jasiak
Search
Results
Visualization
Pins
Custom
Create custom rendering
Sentinel 1 - VV - orthorectified
VV - linear gamma0 - orthorectified
Sentinel 1 - VV - non-orthorectified
VV - linear gamma0 - non-orthorectified
Sentinel 1 - VH - orthorectified
VH - linear gamma0 - orthorectified
Sentinel 1 - VH - non-orthorectified
VH - linear gamma 0 - non-orthorectified
Sentinel 1 - RGB_RATIO
Color image by mapping the input bands. Value [RGB] = [VV, 2 VH, VV /
Sentinel 1 - VV [dB] - orthorectified
VV - decibel gamma0 [-20,0] - orthorectified
Sentinel 1 - VH [dB] - orthorectified
VH - decibel gamma0 [-20,0] - orthorectified
Sentinel 1 - RGB-diff
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Delta National Wildl
Carto © CC BY 3.0, OpenStreetMap © ODbL
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Lat: 29.2672, Lng: -88.7180
5 km

EO Browser

Hello, Aleksander Jasiak

Search | Results | Visualization | Pins

Aby zamknąć pełny ekran, naciśnij F11

Delta National Wildl

Dataset: SENTINEL-1 GRD IW

Date: 2017-12-12

December 2017

Su	Mo	Tu	We	Th	Fr	Sa
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

Sentinel 1 - RGB_RATIO
Color image by mapping the input bands. Value [RGB] = [VV, 2 VH, VV / VH / 100.0] - linear gamma0 - orthorectified

Sentinel 1 - VV [dB] - orthorectified
VV - decibel gamma0 [-20,0] - orthorectified

Sentinel 1 - VH [dB] - orthorectified
VH - decibel gamma0 [-20,0] - orthorectified

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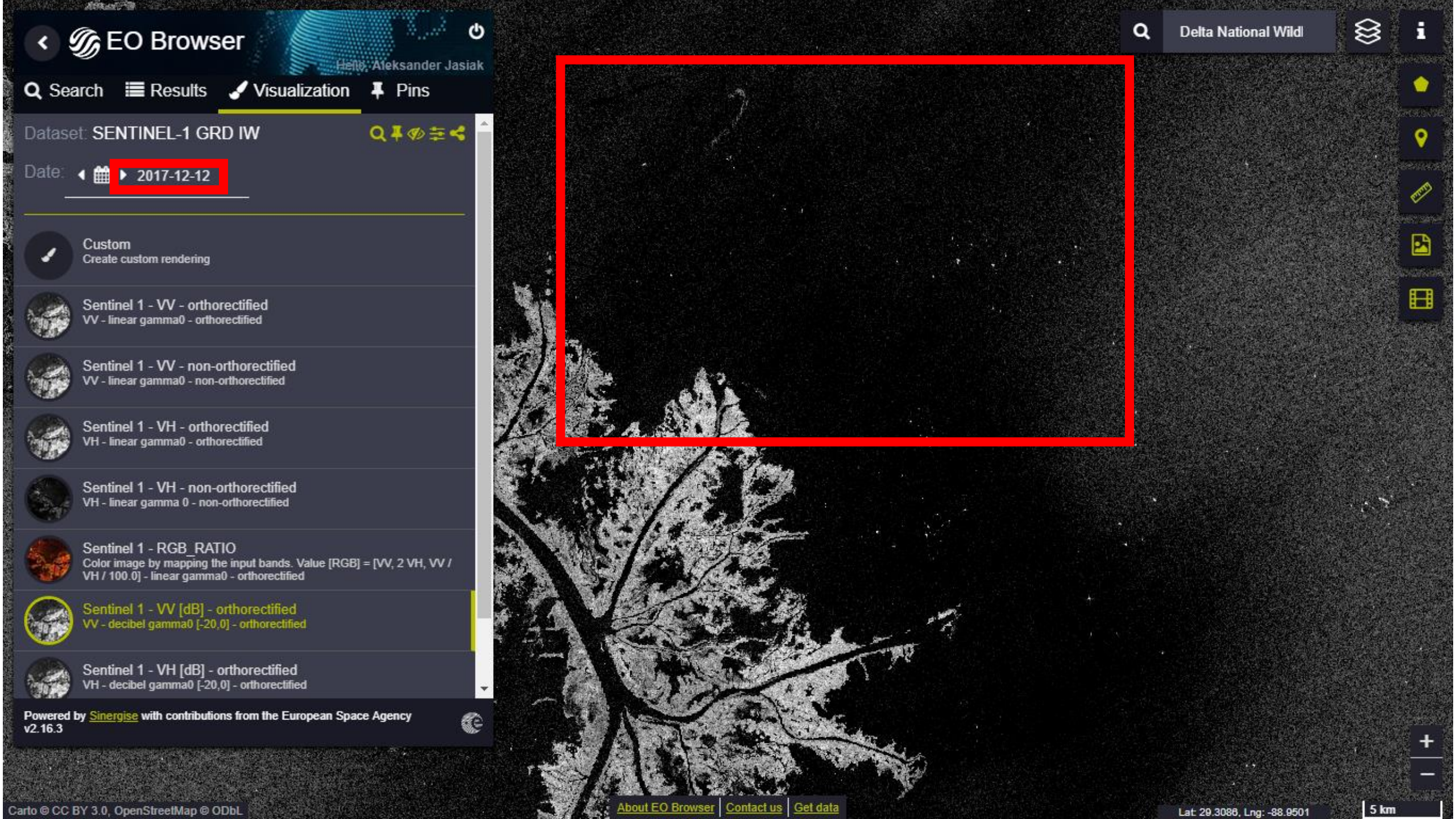
Lat: 29.3947, Lng: -89.2145

3 km


EO Browser
Hello, Aleksander Jasiak
Search
Results
Visualization
Pins
Dataset: SENTINEL-1 GRD IW
Date: 2017-12-12
Custom
Create custom rendering
Sentinel 1 - VV - orthorectified
VV - linear gamma0 - orthorectified
Sentinel 1 - VV - non-orthorectified
VV - linear gamma0 - non-orthorectified
Sentinel 1 - VH - orthorectified
VH - linear gamma0 - orthorectified
Sentinel 1 - VH - non-orthorectified
VH - linear gamma 0 - non-orthorectified
Sentinel 1 - RGB_RATIO
Color image by mapping the input bands. Value [RGB] = [VV, 2 VH, VV / VH / 100.0] - linear gamma0 - orthorectified
Sentinel 1 - VV [dB] - orthorectified
VV - decibel gamma0 [-20,0] - orthorectified
Sentinel 1 - VH [dB] - orthorectified
VH - decibel gamma0 [-20,0] - orthorectified
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Delta National Wildl
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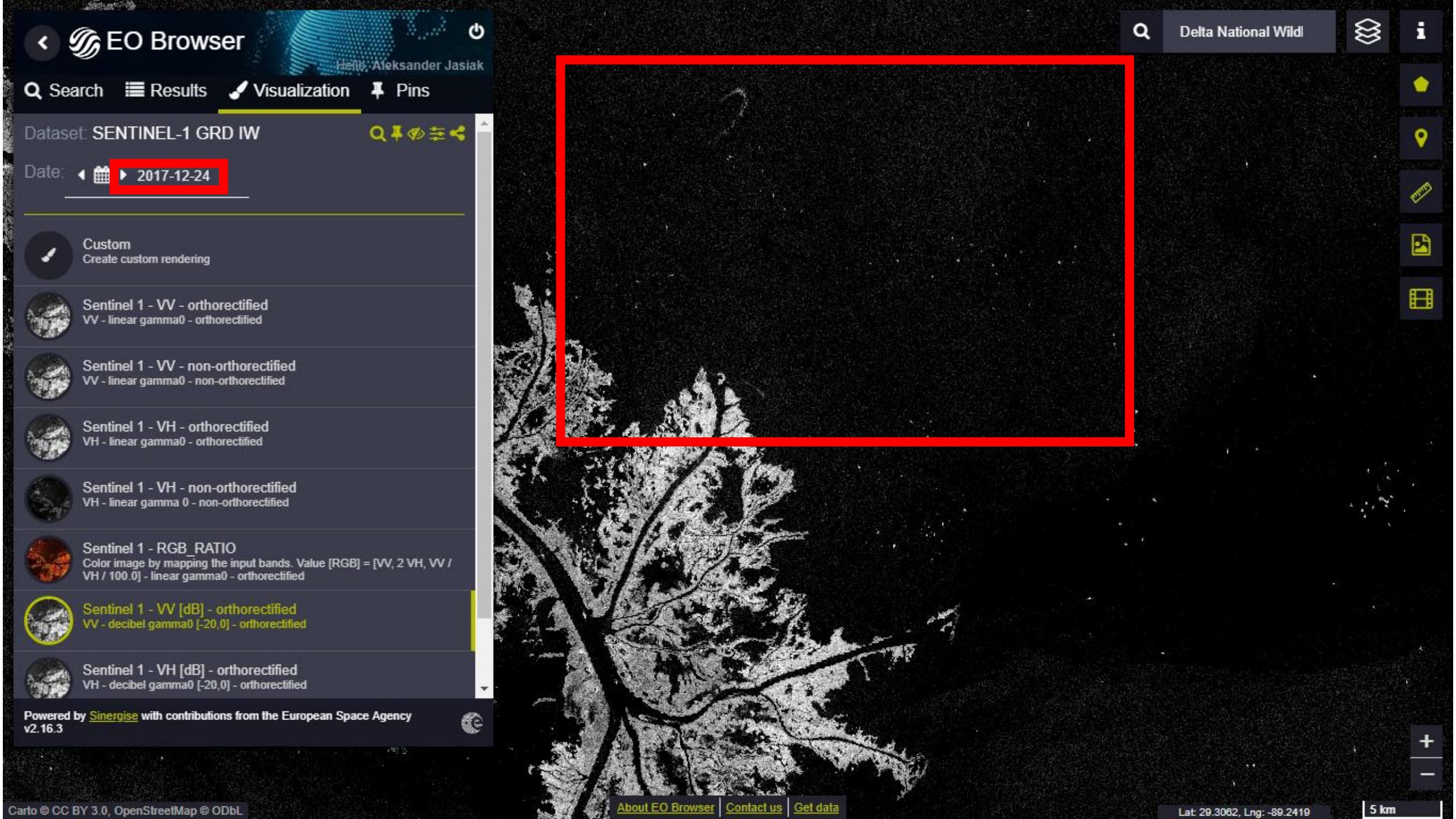
Lat: 29.3086, Lng: -88.9501
5 km


EO Browser
Hello, Aleksander Jasiak
Search
Results
Visualization
Pins
Dataset: SENTINEL-1 GRD IW
Date: 2017-12-24
Custom
Create custom rendering
Sentinel 1 - VV - orthorectified
VV - linear gamma0 - orthorectified
Sentinel 1 - VV - non-orthorectified
VV - linear gamma0 - non-orthorectified
Sentinel 1 - VH - orthorectified
VH - linear gamma0 - orthorectified
Sentinel 1 - VH - non-orthorectified
VH - linear gamma 0 - non-orthorectified
Sentinel 1 - RGB_RATIO
Color image by mapping the input bands. Value [RGB] = [VV, 2 VH, VV / VH / 100.0] - linear gamma0 - orthorectified
Sentinel 1 - VV [dB] - orthorectified
VV - decibel gamma0 [-20,0] - orthorectified
Sentinel 1 - VH [dB] - orthorectified
VH - decibel gamma0 [-20,0] - orthorectified
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Delta National Wildl
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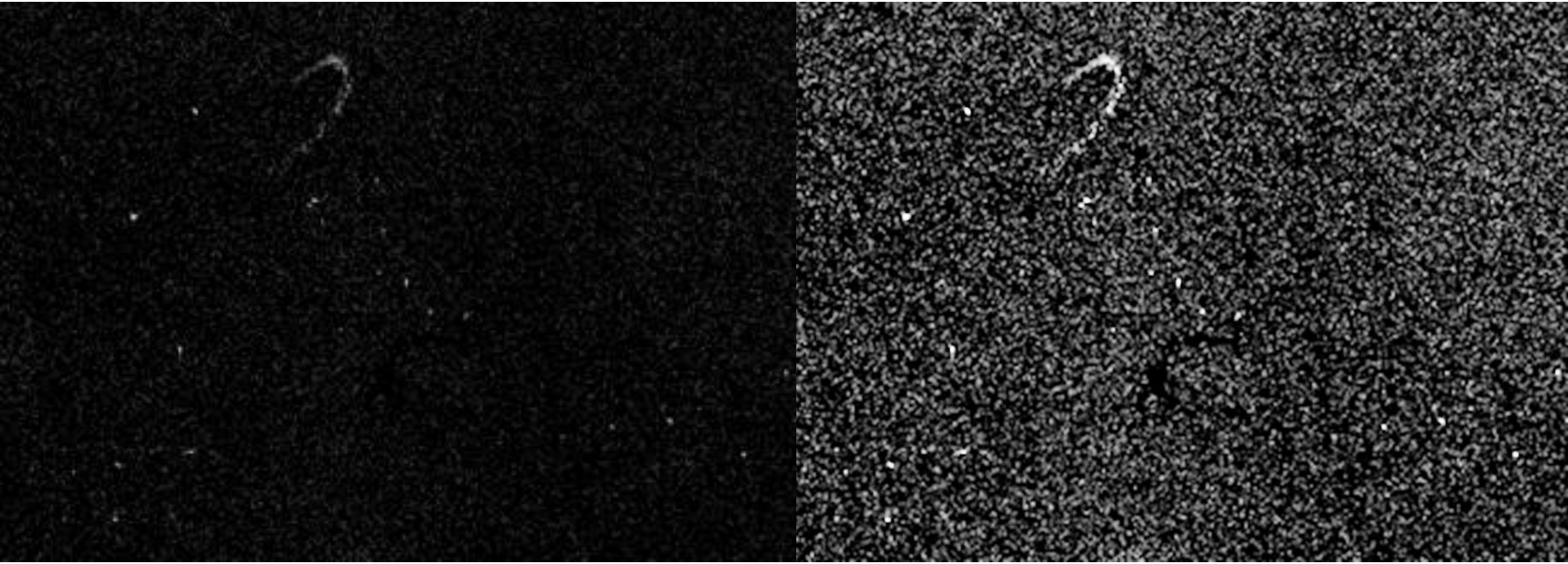
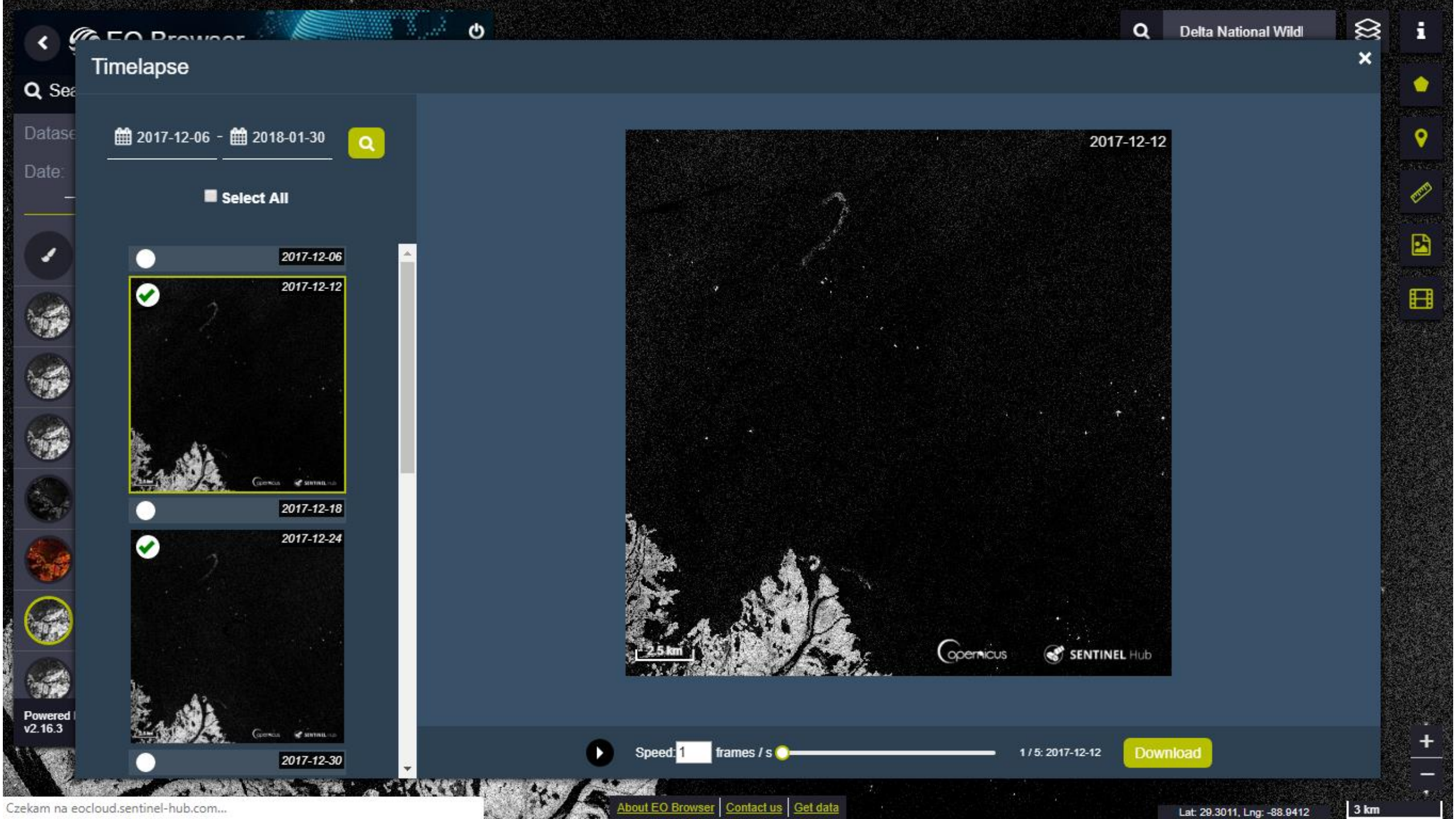
Lat: 29.3062, Lng: -89.2419
5 km

Po podrasowaniu kontrastu zdjęcia…




Timelapse
2017-12-06 - 2018-01-30
Select All
2017-12-06
2017-12-12
2017-12-18
2017-12-24
2017-12-30
2017-12-12
2.5 km
Copernicus
SENTINEL Hub
Speed: 1 frames / s
1 / 5: 2017-12-12
Download
Delta National Wildl
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Czekam na eocloud.sentinel-hub.com...
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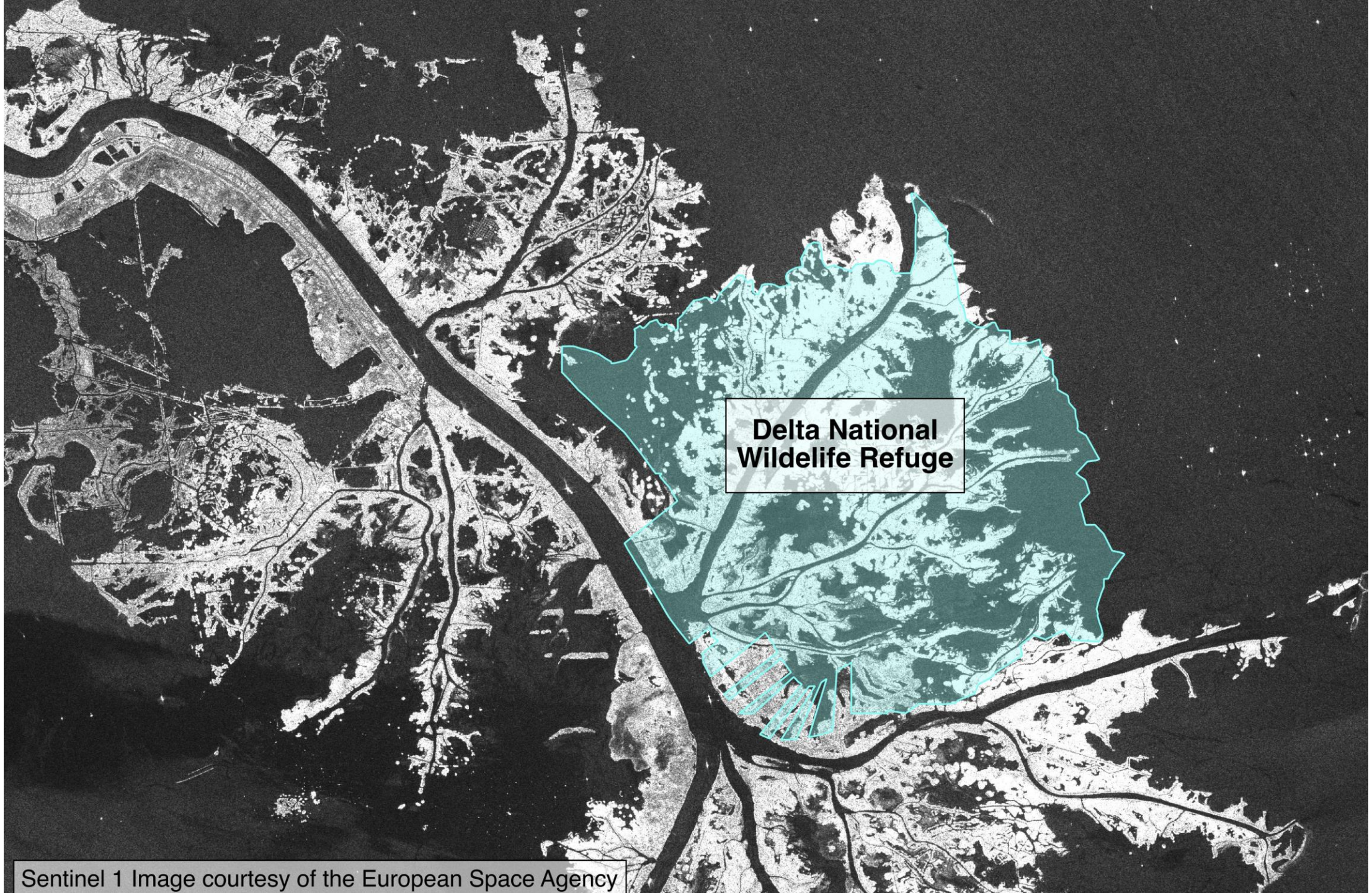
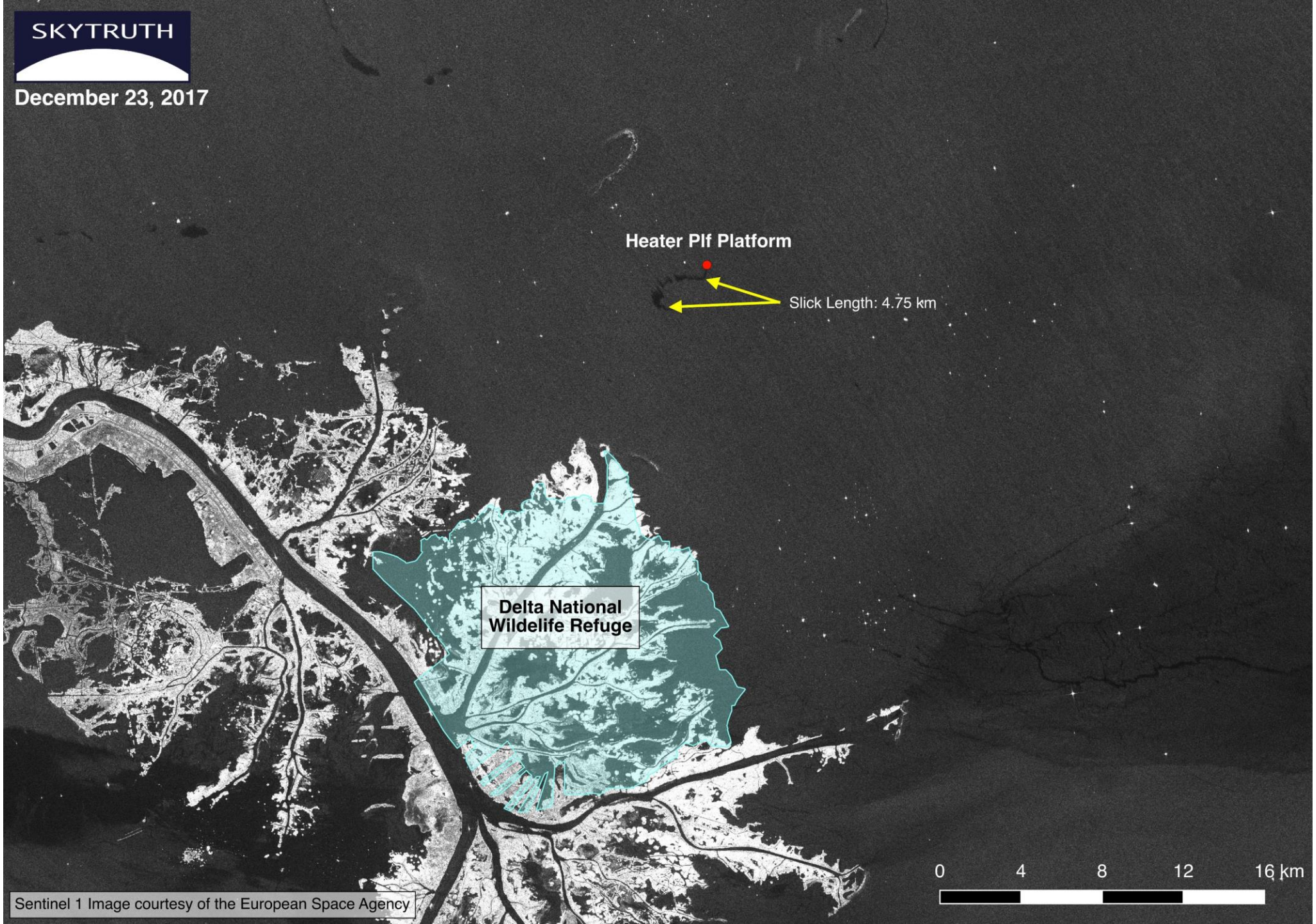
Lat: 29.3011, Lng: -88.9412
3 km

Uzyskany obraz .gif



Sentinel 1 Image courtesy of the European Space Agency

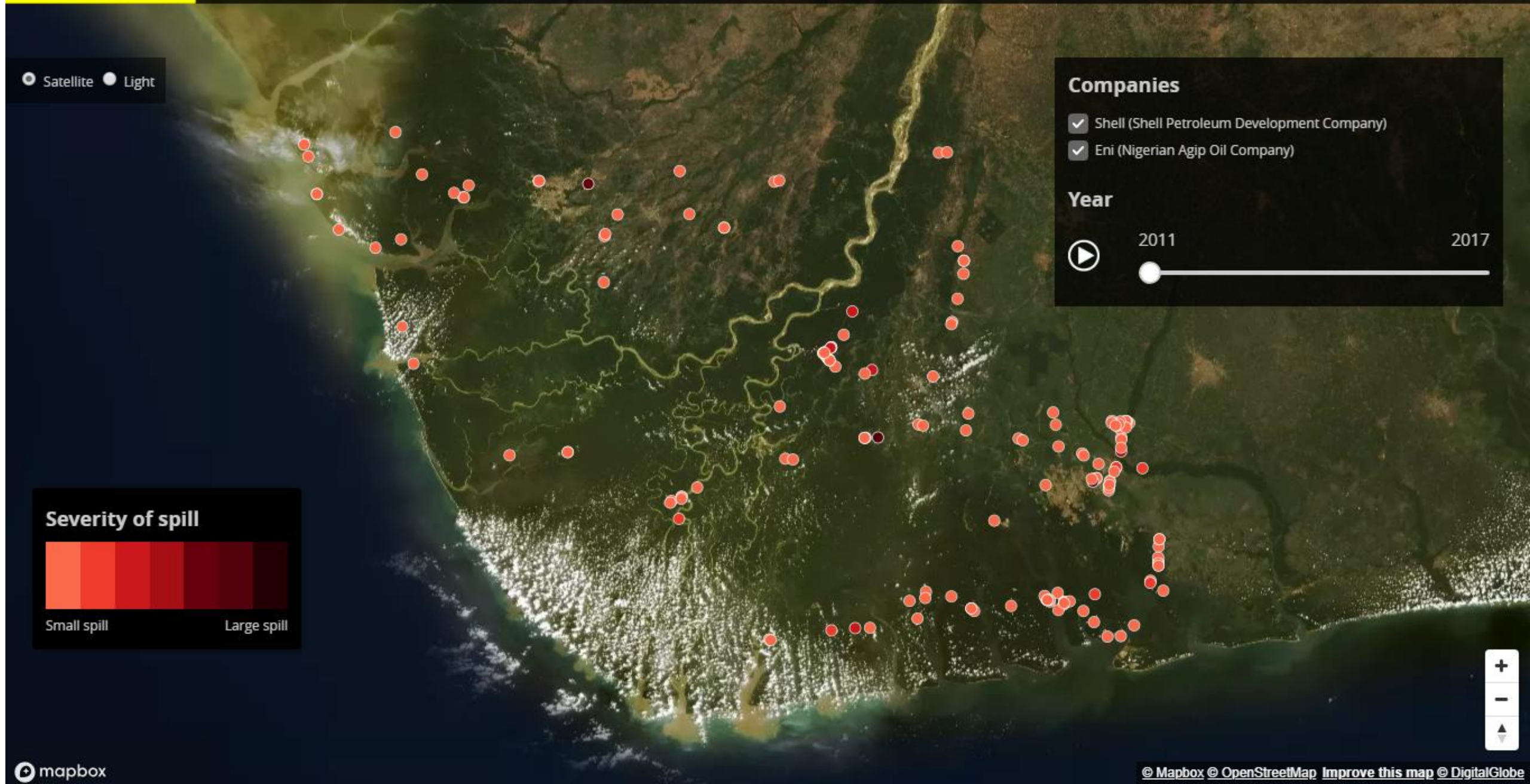

SKYTRUTH
December 23, 2017
Heater Plf Platform
Slick Length: 4.75 km
Delta National Wildelife Refuge
0
4
8
12
16 km
Sentinel 1 Image courtesy of the European Space Agency

AMNESTY INTERNATIONAL

NIGER DELTA OIL SPILLS

https://www.mapbox.com/amnesty/

ABOUT



EO Browser

Hello, Aleksander Jasiak

Search | Results | Visualization | Pins

Dataset: SENTINEL-1 GRD IW

Date: 2018-10-05

- **Custom**
  Create custom rendering
- **Sentinel 1 - VV - orthorectified**
  VV - linear gamma0 - orthorectified
- **Sentinel 1 - VV - non-orthorectified**
  VV - linear gamma0 - non-orthorectified
- **Sentinel 1 - VH - orthorectified**
  VH - linear gamma0 - orthorectified
- **Sentinel 1 - VH - non-orthorectified**
  VH - linear gamma 0 - non-orthorectified
- **Sentinel 1 - RGB_RATIO**
  Color image by mapping the input bands. Value [RGB] = [VV, 2 VH, VV / VH / 100.0] - linear gamma0 - orthorectified
- **Sentinel 1 - VV [dB] - orthorectified**
  VV - decibel gamma0 [-20,0] - orthorectified
- **Sentinel 1 - VH [dB] - orthorectified**
  VH - decibel gamma0 [-20,0] - orthorectified

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annobon

- **Annobón**, Equatorial Guinea
- **Annobón** Province, Equatorial Guinea
- **Annobón** Natural Reserve, Equatorial Guinea
- **Aeropuerto Internacional de Annobón**, Equatorial Guinea
- **Calle de Annobón**, Malabo, Equatorial

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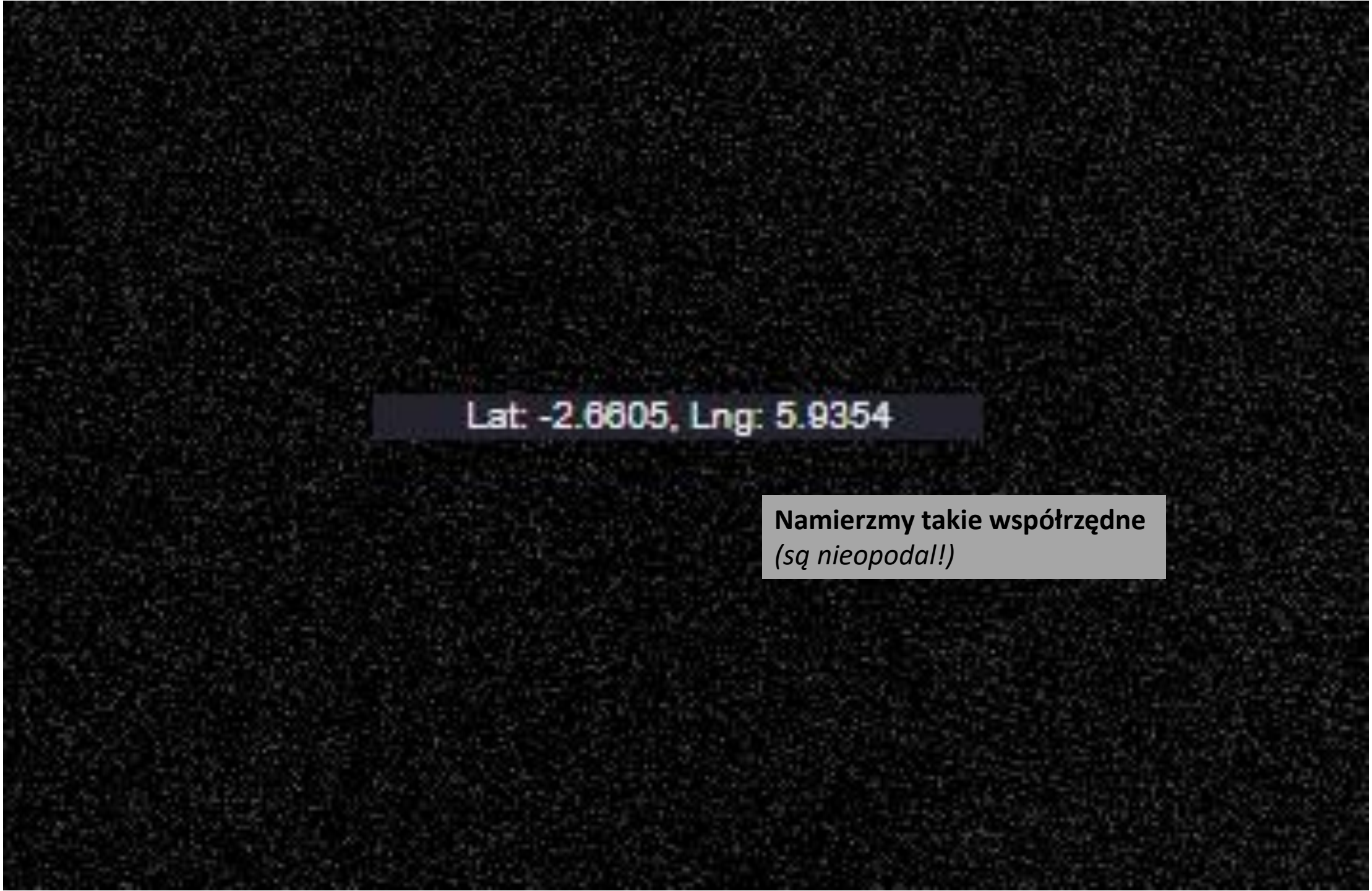
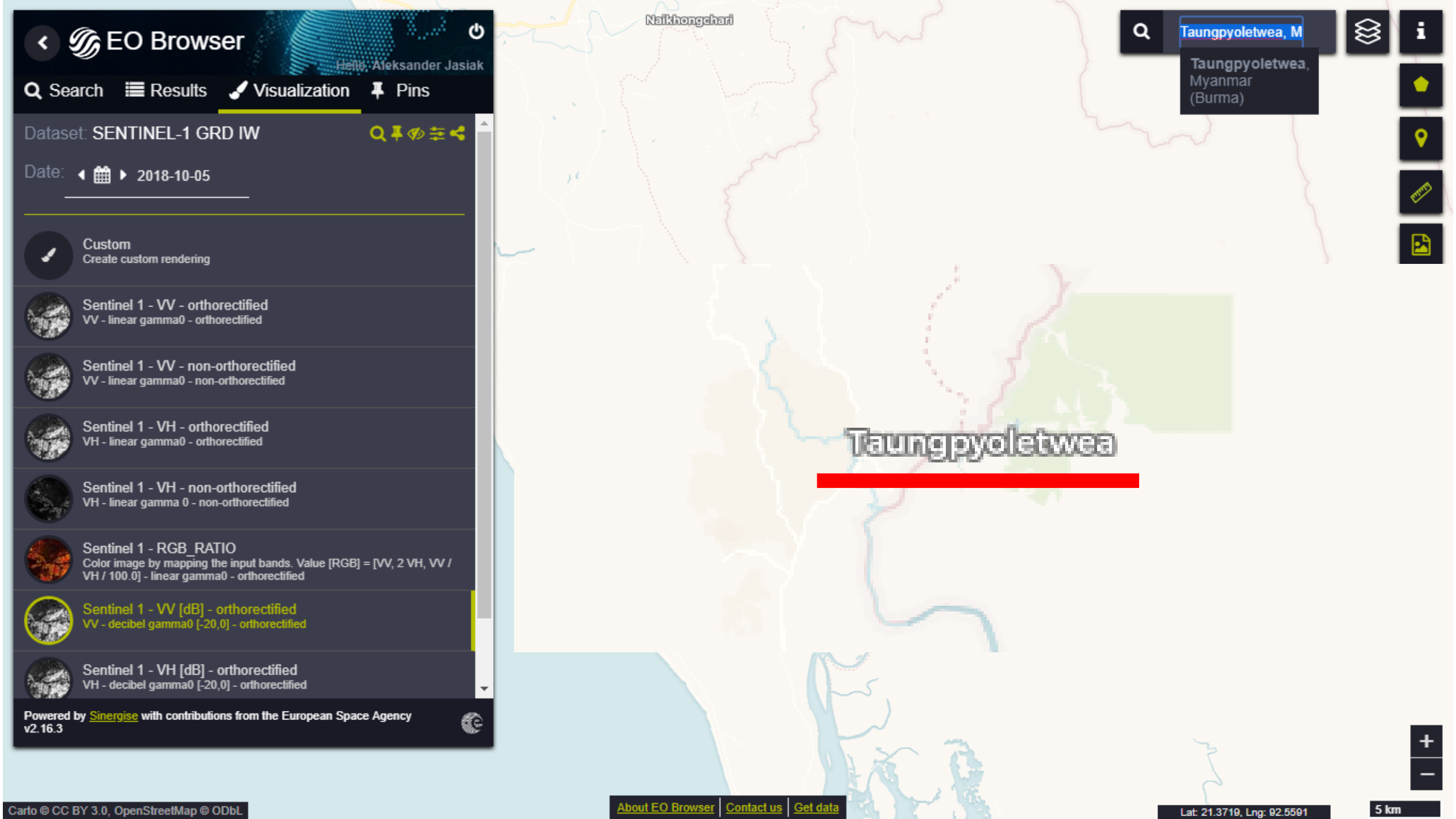
Lat: -1.1940, Lng: 5.9532

5 km



Namierzmy takie współrzędne
(są nieopodal!)


EO Browser
Hello, Aleksander Jasiak
Search
Results
Visualization
Pins
Dataset: SENTINEL-1 GRD IW
Date: 2018-10-05
Custom
Create custom rendering
Sentinel 1 - VV - orthorectified
VV - linear gamma0 - orthorectified
Sentinel 1 - VV - non-orthorectified
VV - linear gamma0 - non-orthorectified
Sentinel 1 - VH - orthorectified
VH - linear gamma0 - orthorectified
Sentinel 1 - VH - non-orthorectified
VH - linear gamma 0 - non-orthorectified
Sentinel 1 - RGB_RATIO
Color image by mapping the input bands. Value [RGB] = [VV, 2 VH, VV / VH / 100.0] - linear gamma0 - orthorectified
Sentinel 1 - VV [dB] - orthorectified
VV - decibel gamma0 [-20,0] - orthorectified
Sentinel 1 - VH [dB] - orthorectified
VH - decibel gamma0 [-20,0] - orthorectified
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Taungpyoletwea, M
Taungpyoletwea, Myanmar (Burma)
Taungpyoletwea
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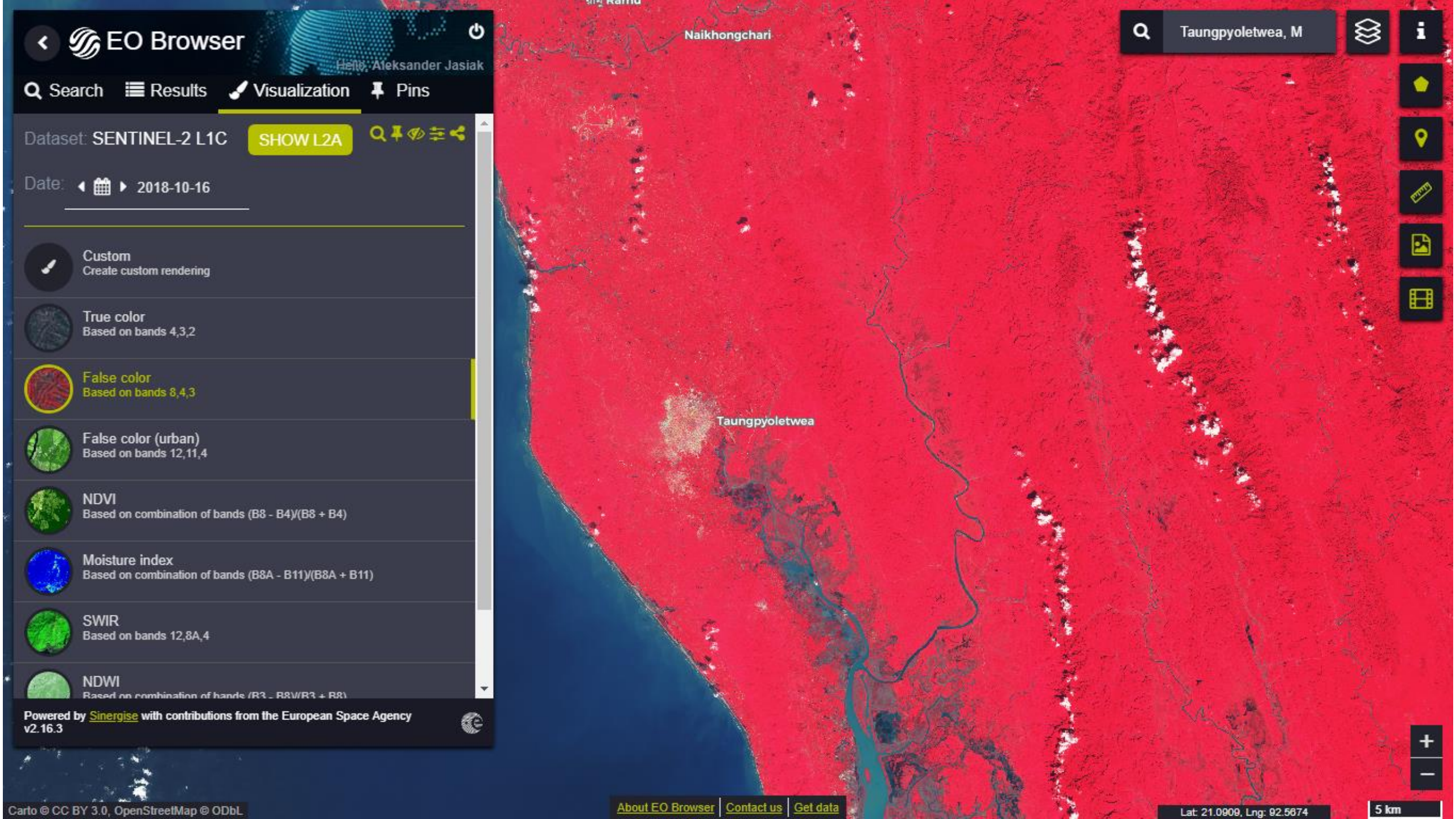
Lat: 21.3719, Lng: 92.5591
5 km


EO Browser
Hello, Aleksander Jasiak
Search
Results
Visualization
Pins
Dataset: SENTINEL-2 L1C
SHOW L2A
Date: 2018-10-16
Custom
Create custom rendering
True color
Based on bands 4,3,2
False color
Based on bands 8,4,3
False color (urban)
Based on bands 12,11,4
NDVI
Based on combination of bands (B8 - B4)/(B8 + B4)
Moisture index
Based on combination of bands (B8A - B11)/(B8A + B11)
SWIR
Based on bands 12,8A,4
NDWI
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Taungpyoletwea
Taungpyoletwea, M
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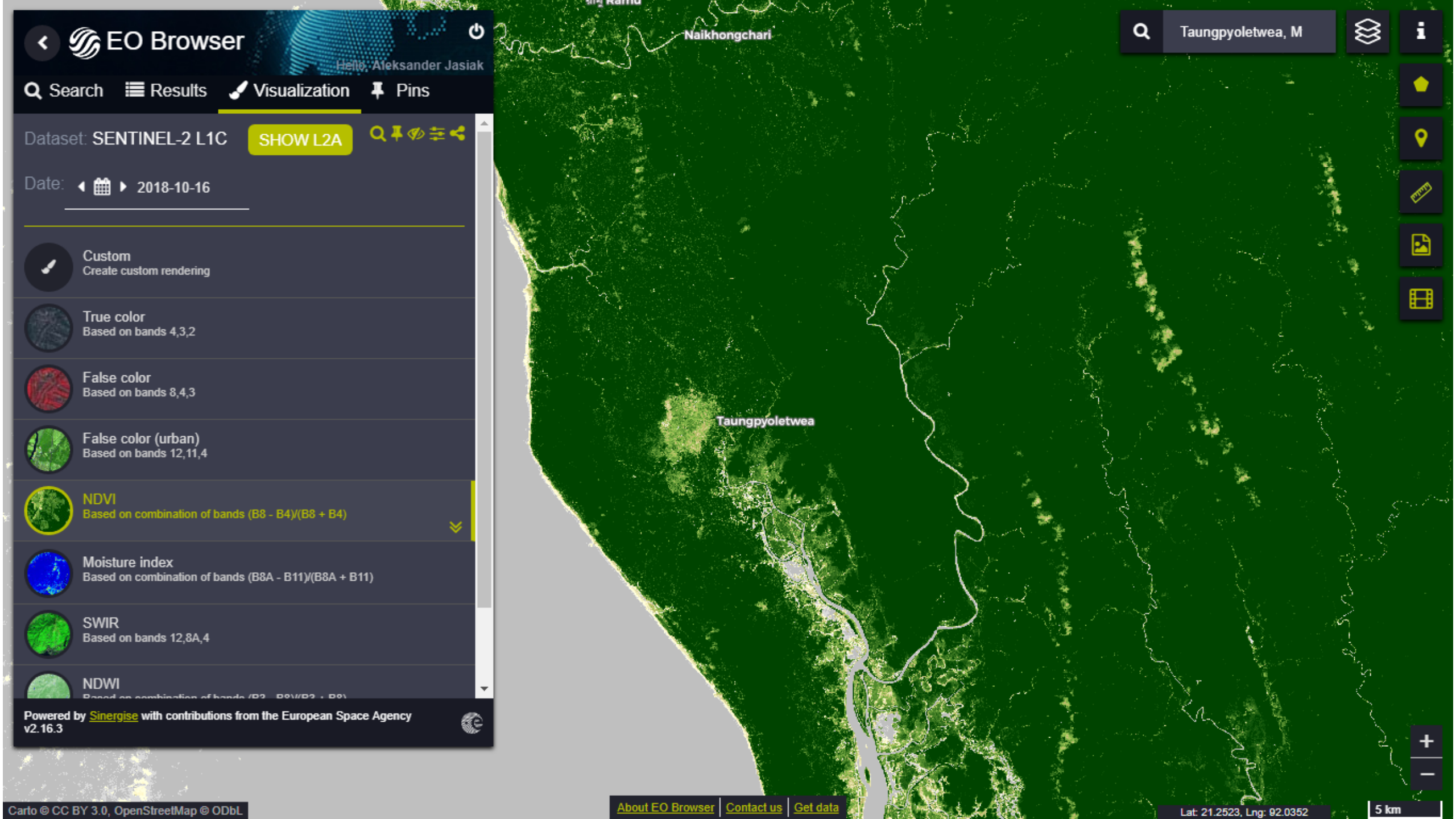
Get data
Lat: 21.0909, Lng: 92.5674
5 km


EO Browser
Hello, Aleksander Jasiak
Search
Results
Visualization
Pins
Dataset: SENTINEL-2 L1C
SHOW L2A
Date: 2018-10-16
Custom
Create custom rendering
True color
Based on bands 4,3,2
False color
Based on bands 8,4,3
False color (urban)
Based on bands 12,11,4
NDVI
Based on combination of bands (B8 - B4)/(B8 + B4)
Moisture index
Based on combination of bands (B8A - B11)/(B8A + B11)
SWIR
Based on bands 12,8A,4
NDWI
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Taungpyoletwea, M
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Contact us
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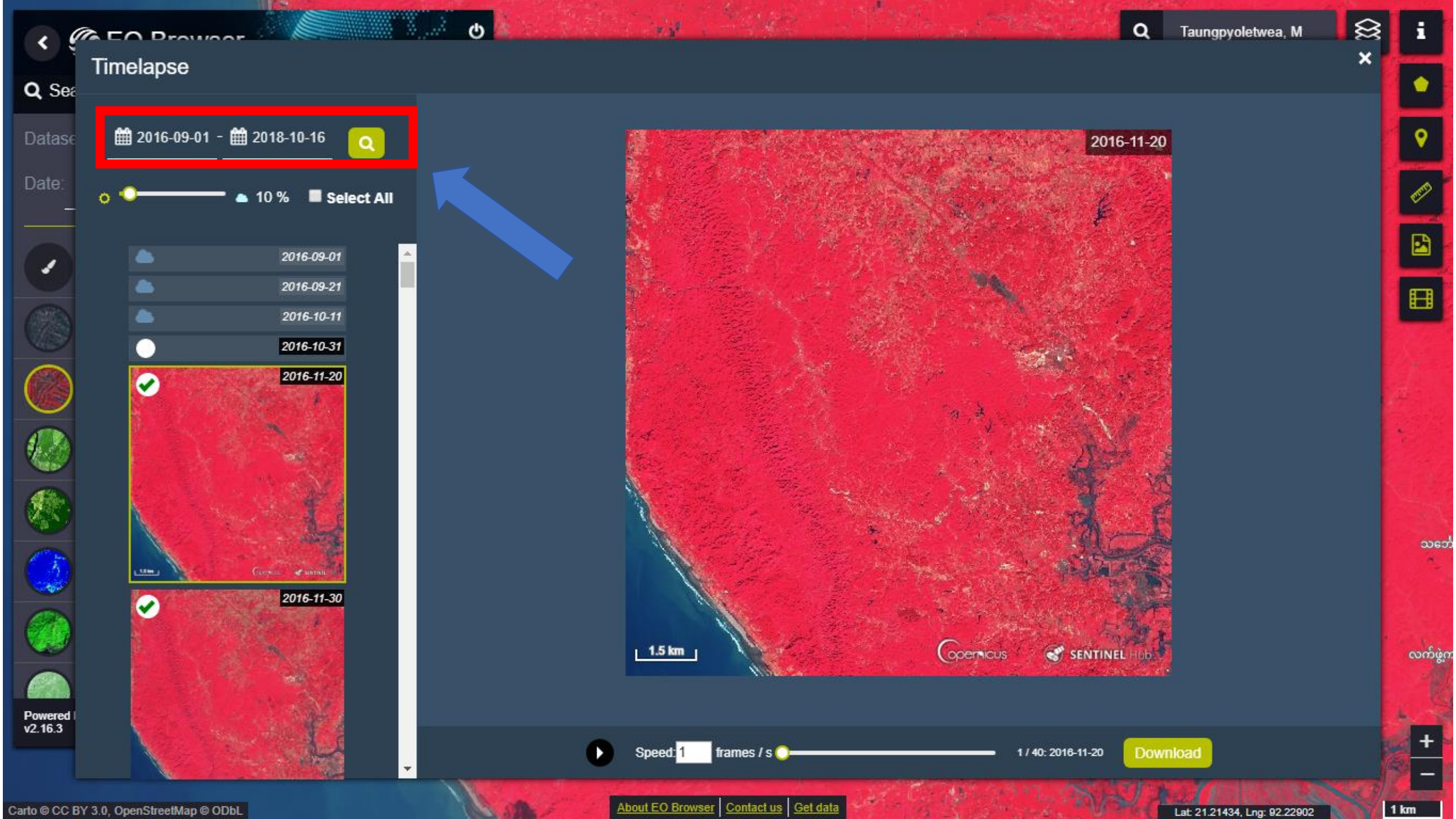
Lat: 21.2523, Lng: 92.0352
5 km

Czas na artykuł


Timelapse
2016-09-01 - 2018-10-16
10 %
Select All
2016-09-01
2016-09-21
2016-10-11
2016-10-31
2016-11-20
2016-11-30
2016-11-20
1.5 km
Speed: 1 frames / s
1 / 40: 2016-11-20
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Get data
Lat: 21.21434, Lng: 92.22902
1 km

Uzyskany obraz .gif

Uzyskany obraz .gif

Situations

https://data2.unhcr.org/en/situations