

EODC: DATEN UND TOOLS



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Inhalt

- Datenstatus (EO-Monitor)
- MetaDaten Katalogue (eomEX+)
- Direkter Datenzugriff (eomQS)

Datenstatus – EO-Monitor

Datenstatus

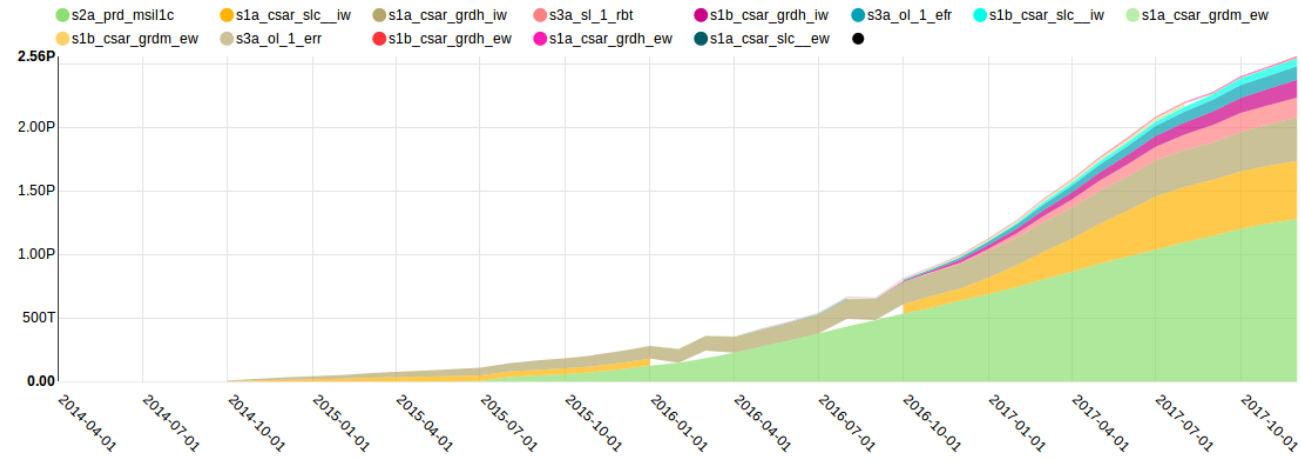
- Datenmenge nach Produkt bzw. Satellit
 - Anzahl und Größe der Daten
 - Historie der Daten
 - ...
-
- Erreichbar unter:
<https://eomonitor.eodc.eu/superset/dashboard/status/>

EO-Monitor

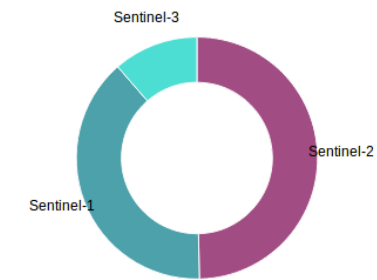
EODC Data Status Public ☆



Cumulative size by product (until 2018)



Size by satellite



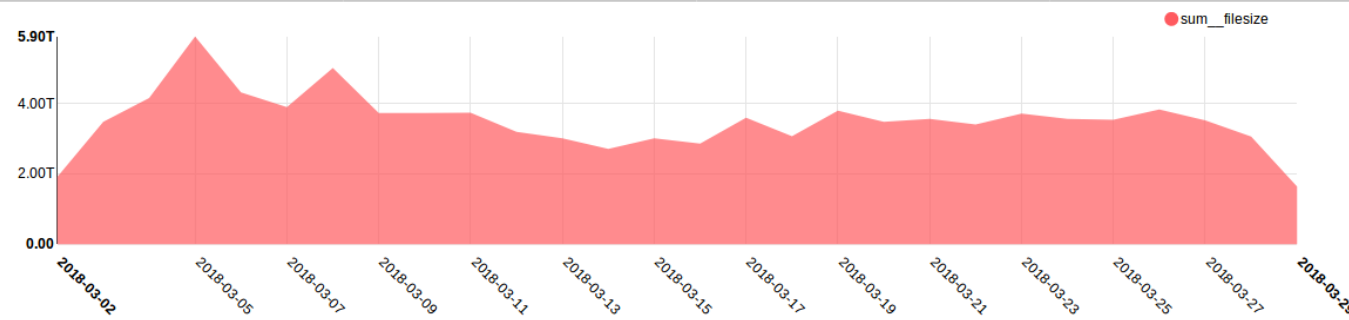
Total size of files

2.86P
of data in EO-Storage

Total number of files

3.55M
files in EO-Storage

Data ingested last month



Metadaten Katalog

- OGC CSW Server
 - <https://csw.eodc.eu/>
- Standard konform
- Verschiedene APIs werden unterstützt
 - CSW2/CSW3, OpenSearch, OAI-PMH, ...
- Methode um EOStorage zu durchsuchen

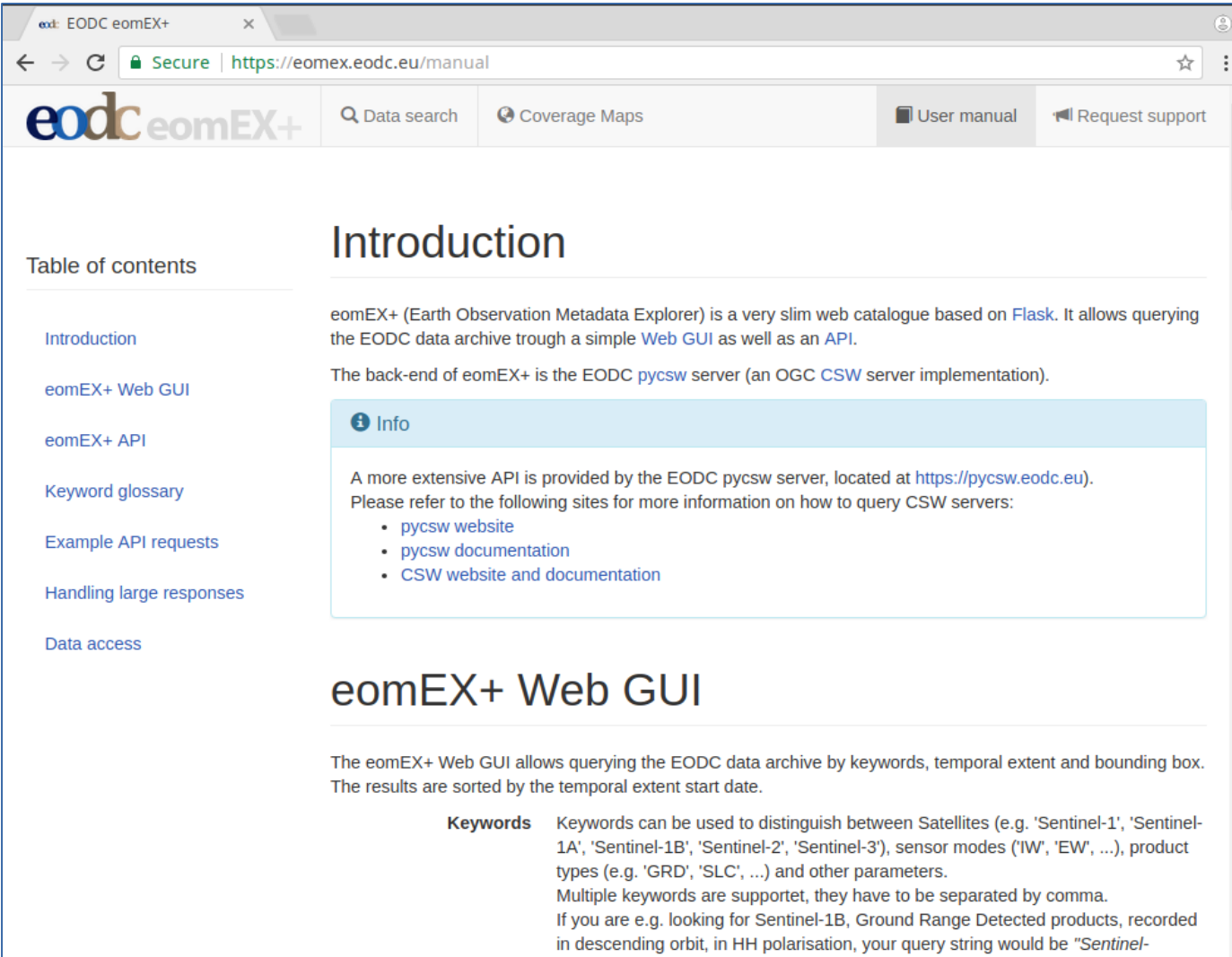
- Earth Observation Metadata Explorer
- Web GUI
- Einfache API
- Backend: CSW server

<https://eomex.eodc.eu/>

The screenshot shows the EODC eomEX+ web application interface. The browser address bar displays the URL <https://eomex.eodc.eu/index>. The page features a search bar with the text "e.g. Sentinel-1,GRD,asr" and a "Search" button. Below the search bar are input fields for "Start date" (2018-03-23) and "End date" (2018-03-30). A "Bounding box" section includes input fields for North (90), East (180), South (-90), and West (-180). A "Learn more" button is prominently displayed. The main content area is titled "The home of EODC's data catalogue" and states "Discover more than 2.500.000 datasets!". Below this, there is a "Featured datasets" section with three entries: Sentinel-1, Sentinel-2, and Sentinel-3, each with a brief description of the satellite mission.

User Manual

Für Web GUI und API



The screenshot shows a web browser window displaying the user manual for eomEX+. The browser's address bar shows the URL <https://eomex.eodc.eu/manual>. The page features a navigation bar with the eodc eomEX+ logo, a search bar, and links for 'Data search', 'Coverage Maps', 'User manual', and 'Request support'. A 'Table of contents' sidebar on the left lists sections such as 'Introduction', 'eomEX+ Web GUI', 'eomEX+ API', 'Keyword glossary', 'Example API requests', 'Handling large responses', and 'Data access'. The main content area is titled 'Introduction' and contains the following text:

eomEX+ (Earth Observation Metadata Explorer) is a very slim web catalogue based on [Flask](#). It allows querying the EODC data archive through a simple [Web GUI](#) as well as an [API](#).

The back-end of eomEX+ is the EODC [pysw](#) server (an OGC [CSW](#) server implementation).

Info

A more extensive API is provided by the EODC [pysw](#) server, located at <https://pysw.eodc.eu>. Please refer to the following sites for more information on how to query CSW servers:

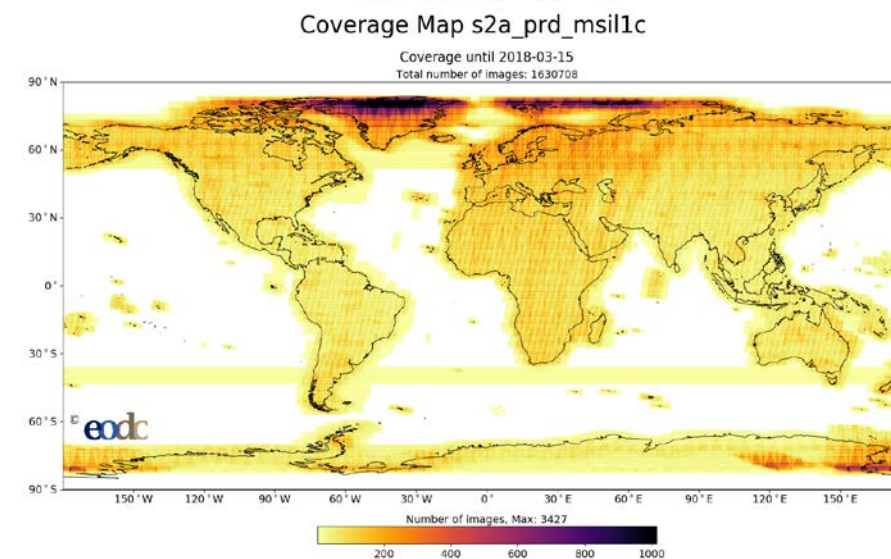
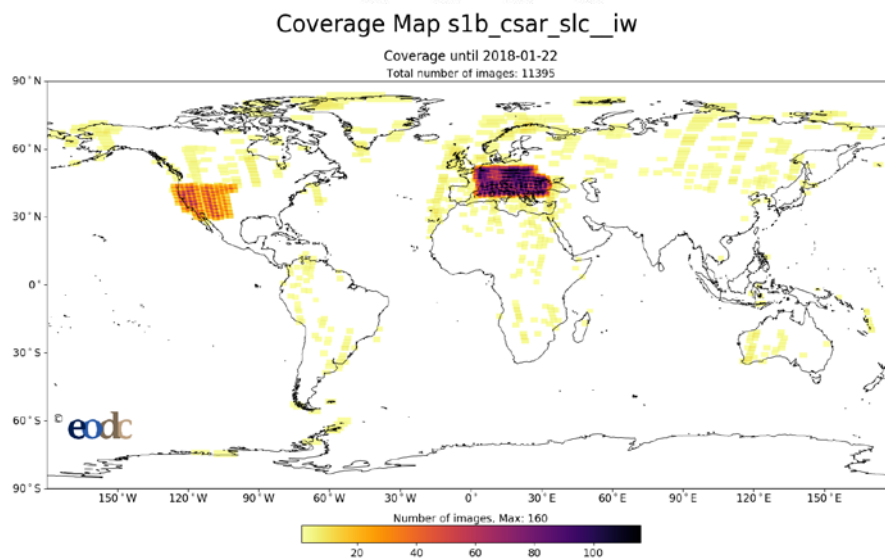
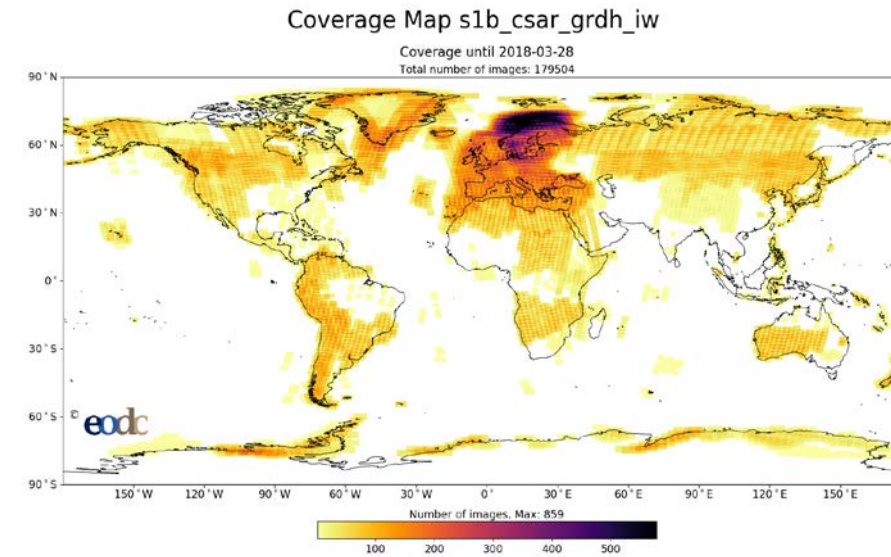
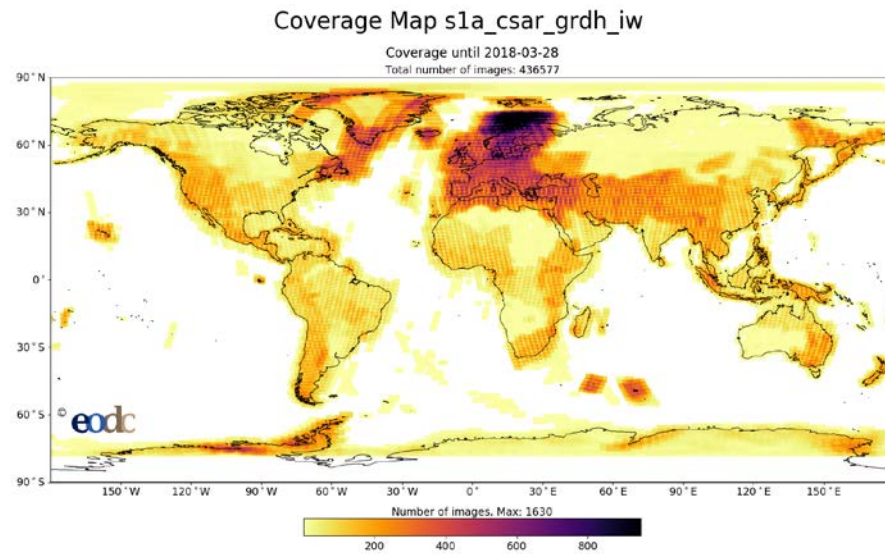
- [pysw website](#)
- [pysw documentation](#)
- [CSW website and documentation](#)

eomEX+ Web GUI

The eomEX+ Web GUI allows querying the EODC data archive by keywords, temporal extent and bounding box. The results are sorted by the temporal extent start date.

Keywords Keywords can be used to distinguish between Satellites (e.g. 'Sentinel-1', 'Sentinel-1A', 'Sentinel-1B', 'Sentinel-2', 'Sentinel-3'), sensor modes ('IW', 'EW', ...), product types (e.g. 'GRD', 'SLC', ...) and other parameters. Multiple keywords are supported, they have to be separated by comma. If you are e.g. looking for Sentinel-1B, Ground Range Detected products, recorded in descending orbit, in HH polarisation, your query string would be "Sentinel-

Geografische Abdeckung



Datenzugriff

- Zugang zu EOStorage:
 - mittels Remote Desktop auf eodc VM verbinden
- Daten auf VM:
 - unter `/eodc/products/copernicus.eu/`
 - sortiert nach Produkt und Datum
- Suche und Analyse:
 - z.B.: in QGIS mit eomQS

eomQS



- QGIS Plugin
- QGIS GUI
- Abfrage von Metadaten
- Backend: CSW Server

eomQS 1.0.0

Search Results Services Settings

Search Parameters

Keywords ?
Separate multiple keywords by comma

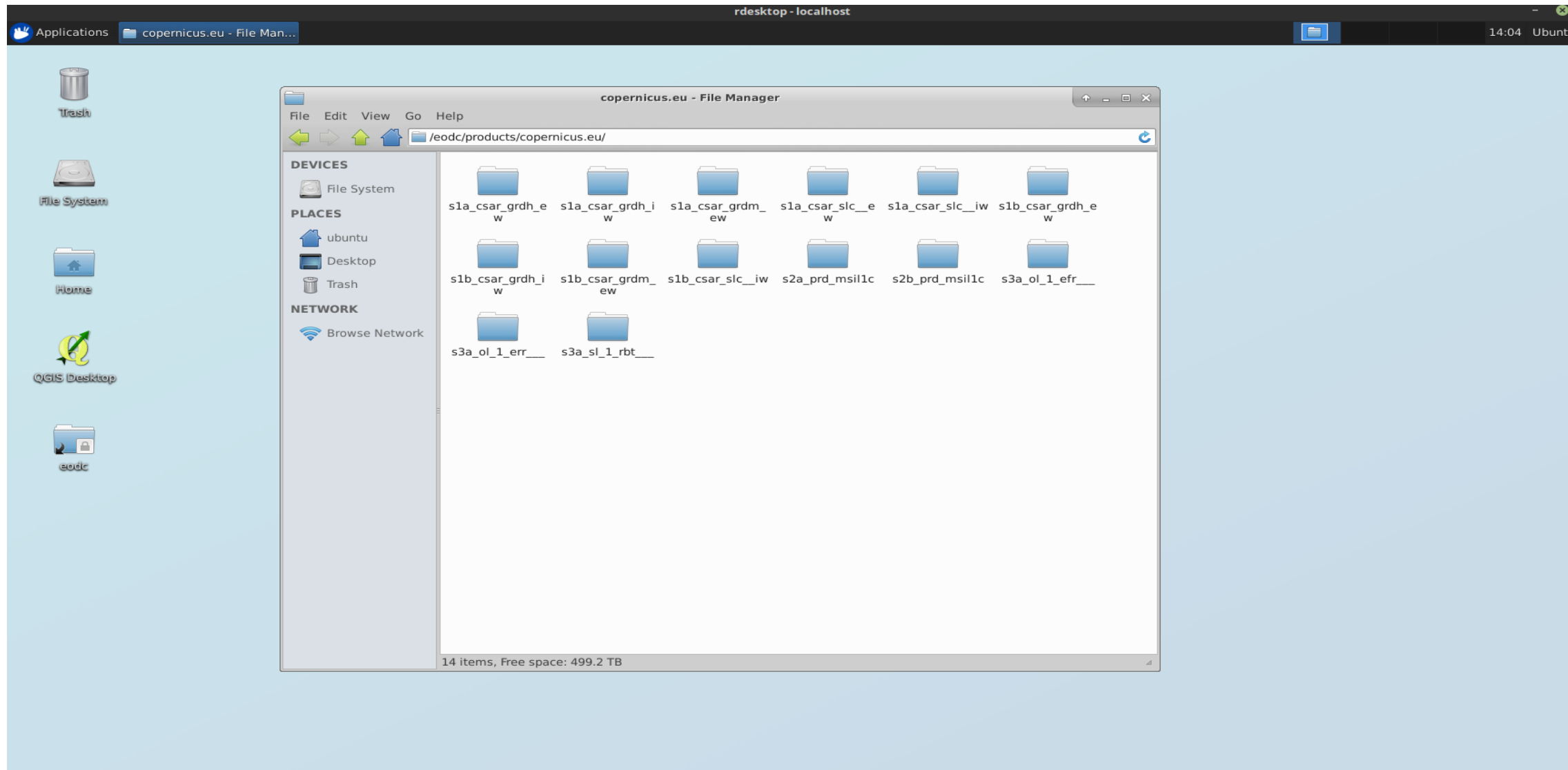
From eodc

Date, From 3/23/18 2:25 PM To 3/30/18 2:25 PM Specify Date

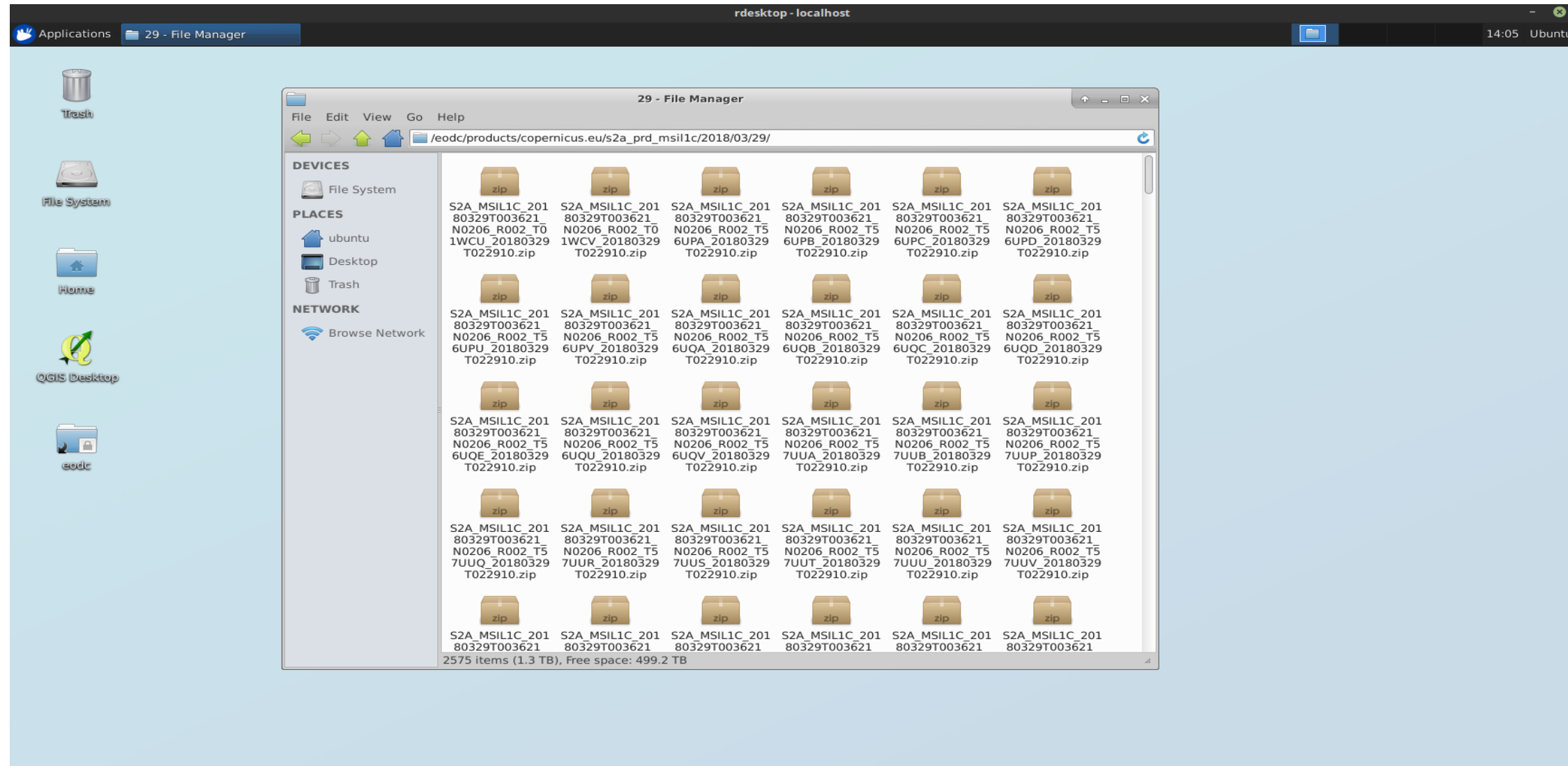
Xmax 180 Ymax 90

Xmin -180 Ymin -90

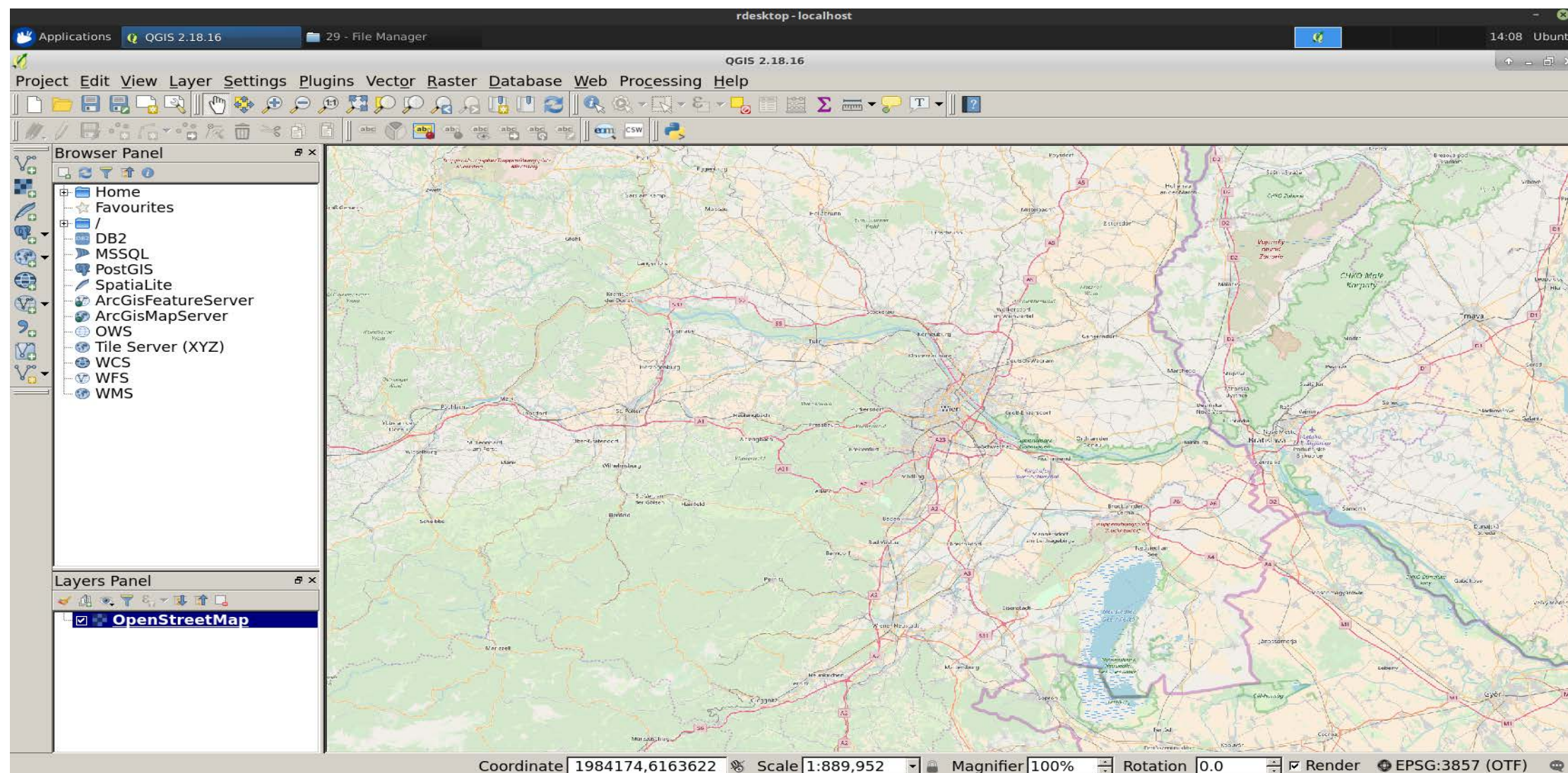
Copernicus Datenarchiv



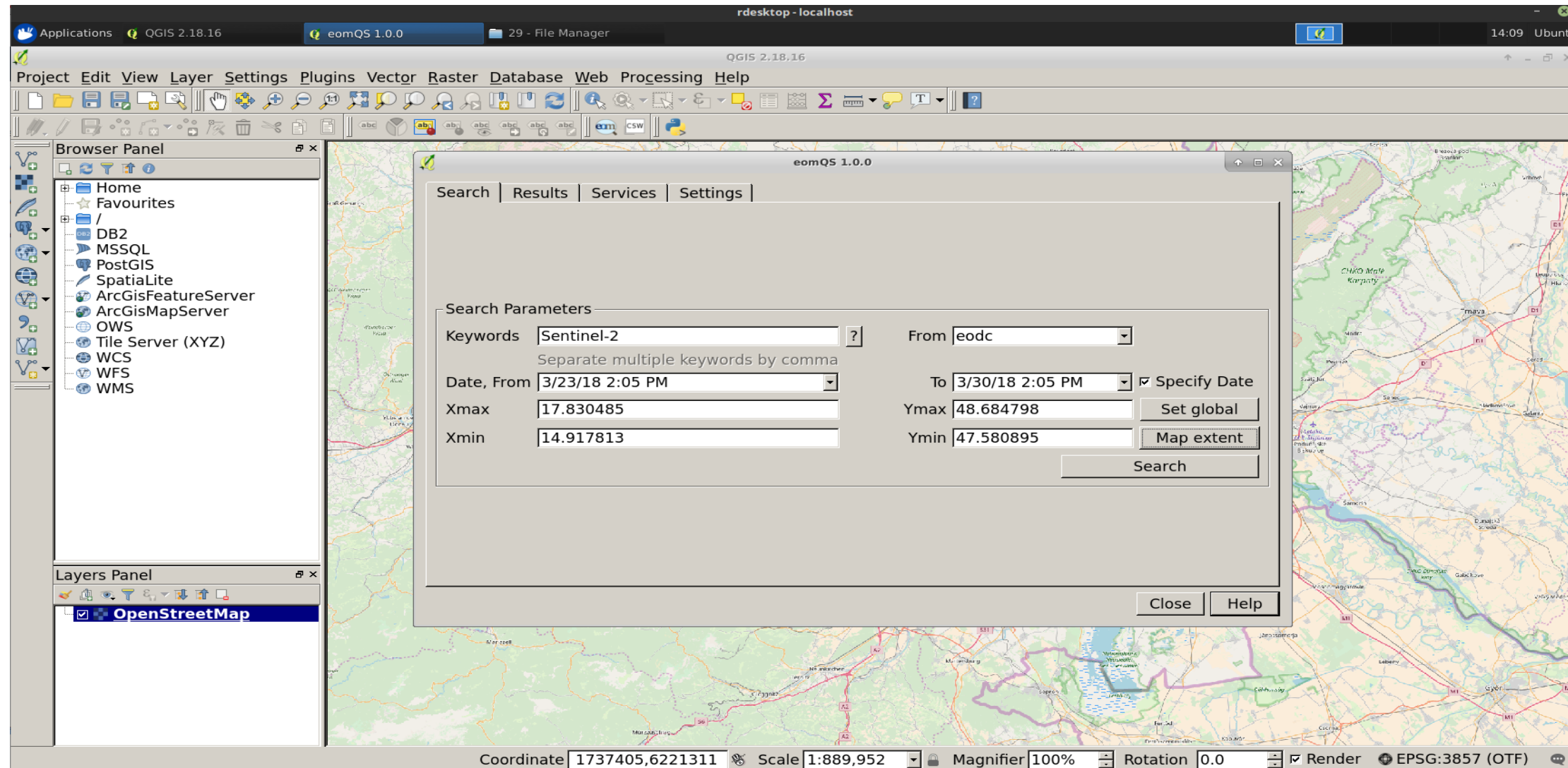
BSP: Sentinel-2A 2018-03-29



QGIS



Suche mit eomQS



Suchergebnisse

Record Metadata (View XML)

Identifier: S2A_MSIL1C_20170720T100031_N0205_R122_T33UXP_20170720T100027

Title: S2A_MSIL1C_20170720T100031_N0205_R122_T33UXP_20170720T100027

Abstract: This dataset contains a Sentinel-2 Multi-Spectral Instrument (MSI) Level-1C product (descending orbit), with a cloud coverage of 4.76%. Sentinel-2 is a wide-swath, high-resolution, multi-spectral imaging mission, supporting Copernicus Land Monitoring studies, including the monitoring of vegetation, soil and water cover, as well as observation of inland

Close

Search Results Services Settings

Analyse Results

Showing 31 - 40 of 60 result(s)

Please select a dataset View search results as XML

Type	Title
dataset	S2A_MSIL1C_20170717T095031_N0205_R079_T33UYP_20170717T095631
dataset	S2A_MSIL1C_20170717T095031_N0205_R079_T33UYQ_20170717T095631
dataset	S2A_MSIL1C_20170710T100031_N0205_R122_T33TVN_20170710T100540
dataset	S2A_MSIL1C_20170720T100031_N0205_R122_T33UWQ_20170720T100027
dataset	S2A_MSIL1C_20170720T100031_N0205_R122_T33TXN_20170720T100027
dataset	S2A_MSIL1C_20170720T100031_N0205_R122_T33UXQ_20170720T100027
dataset	S2A_MSIL1C_20170720T100031_N0205_R122_T33UXP_20170720T100027
dataset	S2A_MSIL1C_20170720T100031_N0205_R122_T33TVN_20170720T100027

Load selected Image

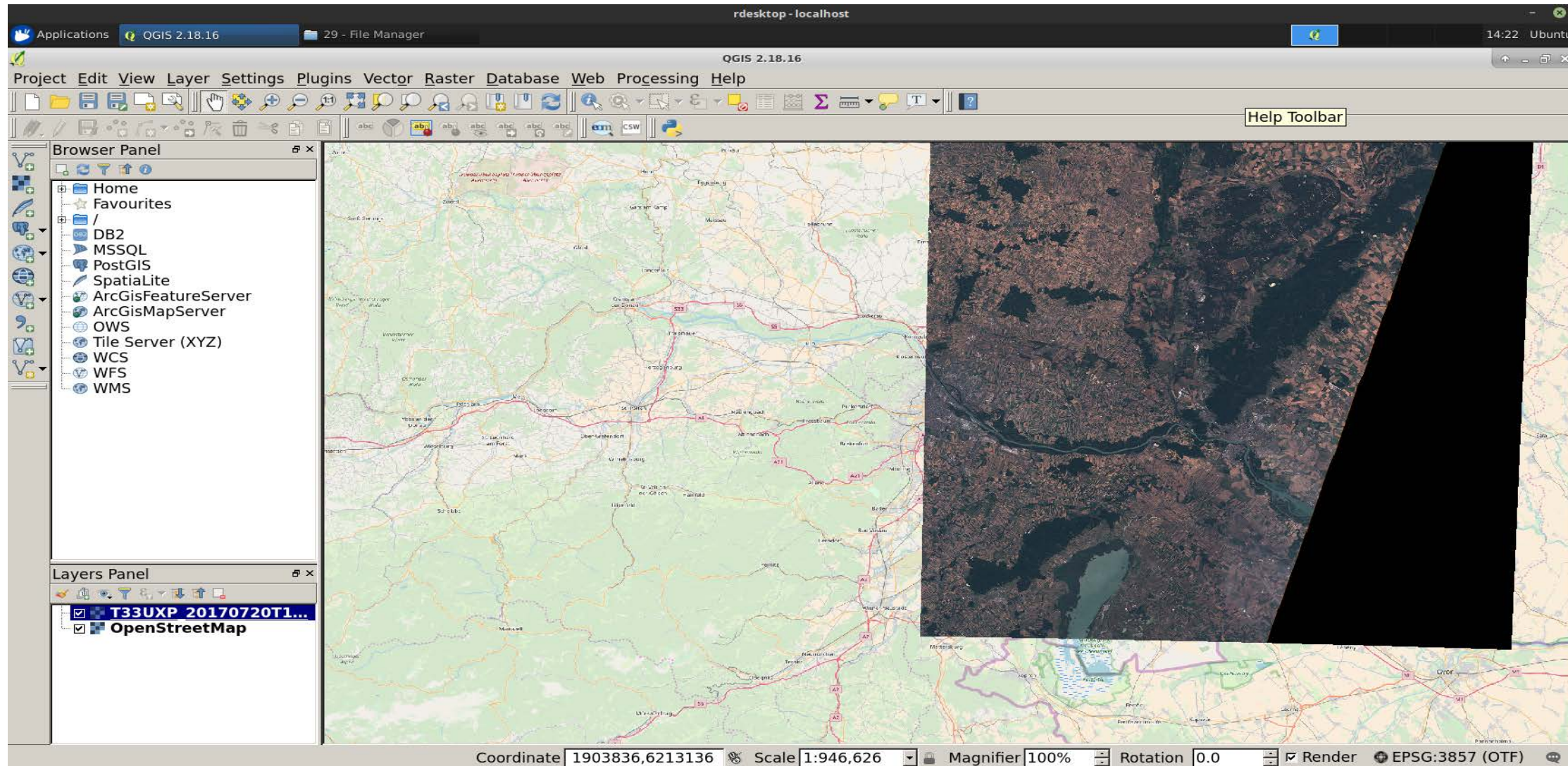
Select an Image

Maintain Zoomlevel
 Zoom to Image

Close Help

Magnifier 100% Rotation 0.0 Render EPSG:3857 (OTF)

Geladene Daten



DANKE !



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