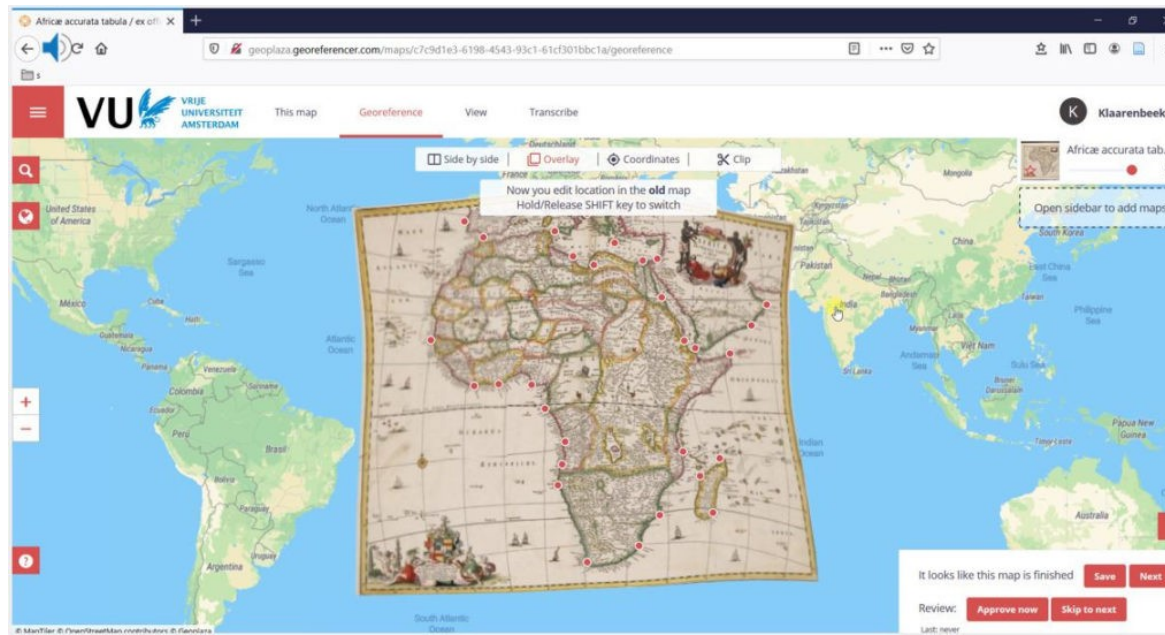


9) Prostorová data – prax

Eduard Lazorík

Georeferencování – prax

- Principem je na současné a na staré mapě vyhledat body označující stejné místo a vytvořit mezi nimi propojení
- Doporučuje se vyhledávat okrajové body
- Je možné, že stará mapa se v procesu deformuje!
- Množství webových aplikací např. <https://www.georeferencer.com>
- Desktopové GIS programy
- Výsledkem webový odkaz nebo soubor GeoPDF nebo Geo TIFF



Add own map

Here you can upload a new image to Georeferencer. Images will be available in [My maps](#).

Drag a file here

Or, if you prefer...

Select a file from your computer

Open IIF

☰ Side by side | 🖼️ Overlay | 📍 Coordinates | ✂️ Clip



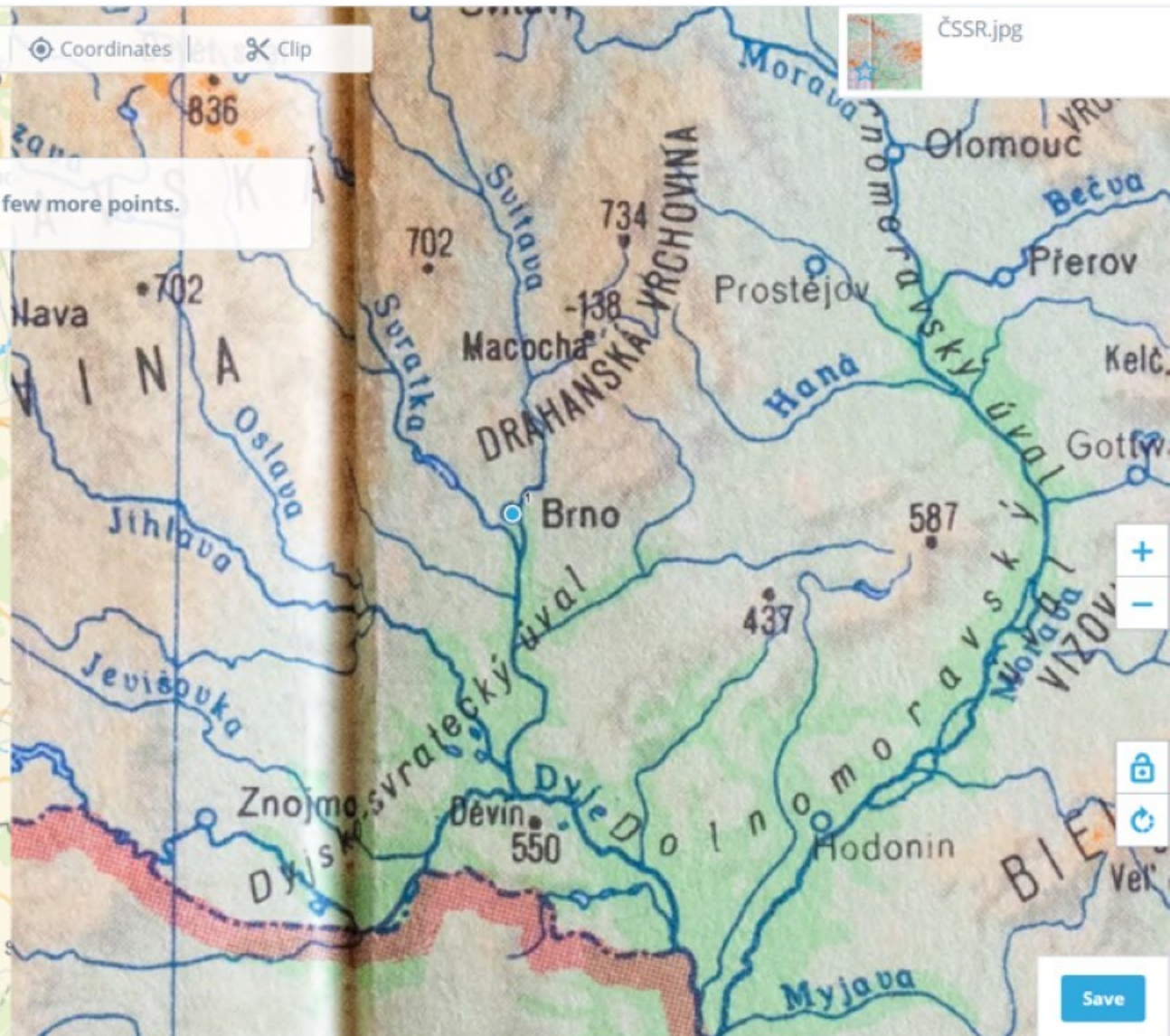
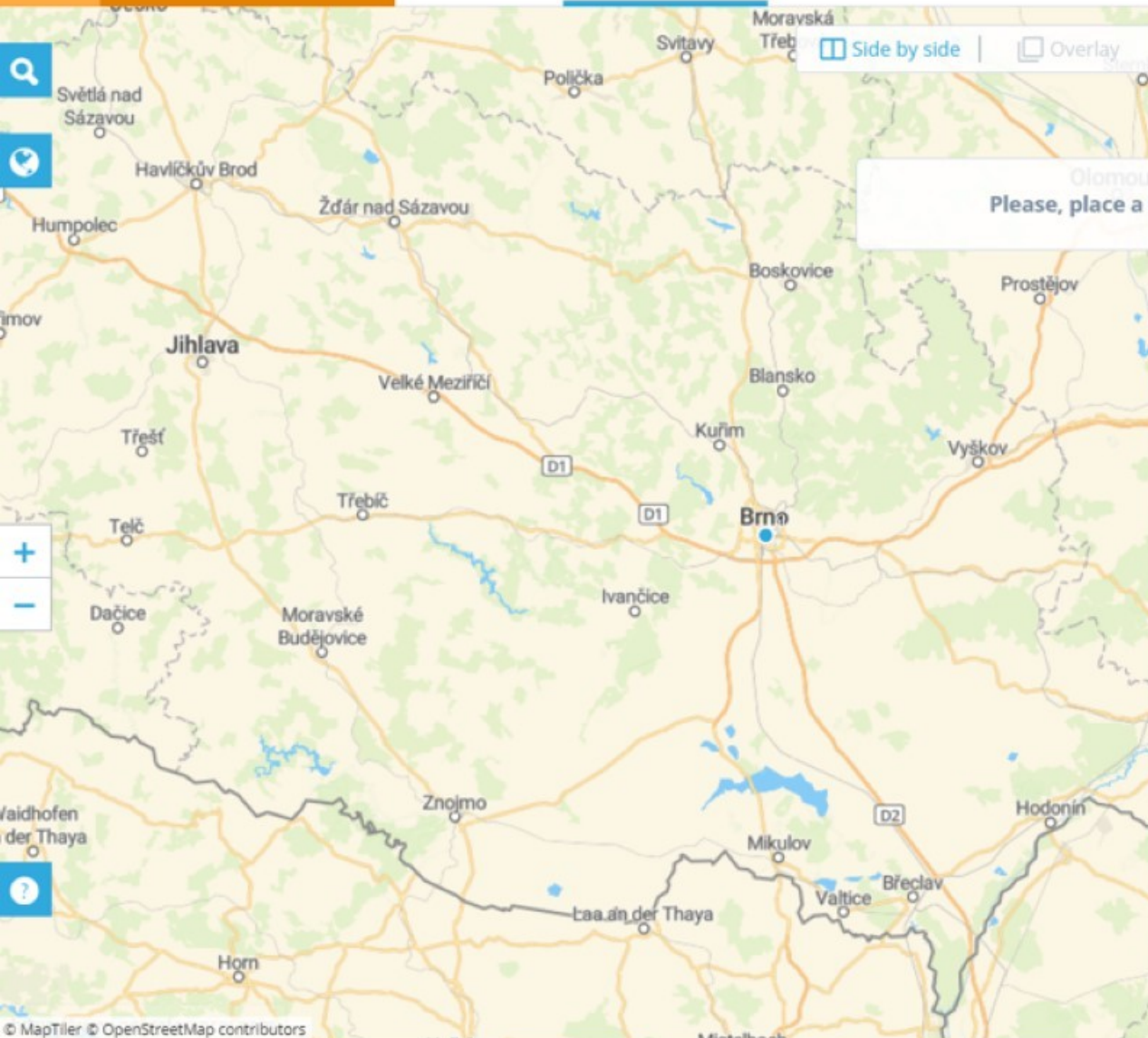
Please, place a few more points.



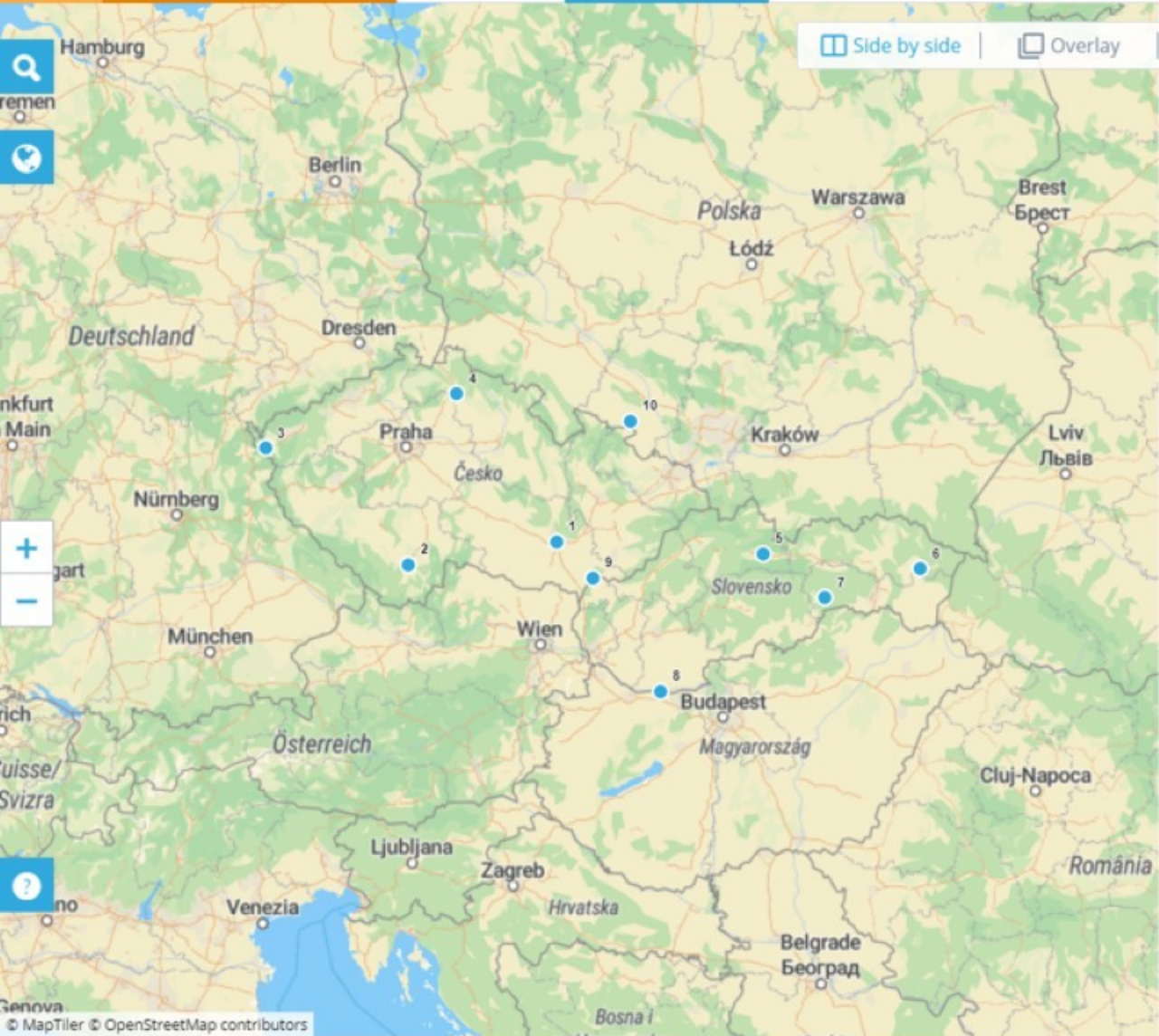
+
-

🔒
🔄

Save



Save



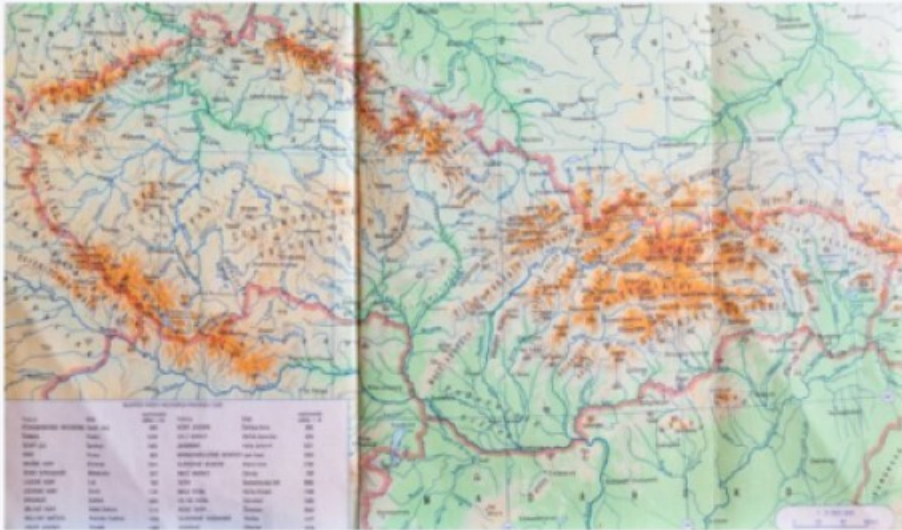
Side by side | Overlay | Coordinates | Clip



It looks like this map is finished [Save](#)



ČSSR.jpg



Bookmark this map ☆

View

Overlay & compare

iiif viewer, iiif info json

Trace features

Draw vectors

Metadata

Title

ČSSR.jpg

Update metadata

Use in GIS apps

ArcGIS, QGIS or web apps can simply use this map with web map services.

WMTS, TileJSON or XYZ tiles are provided for quick access to processed maps.

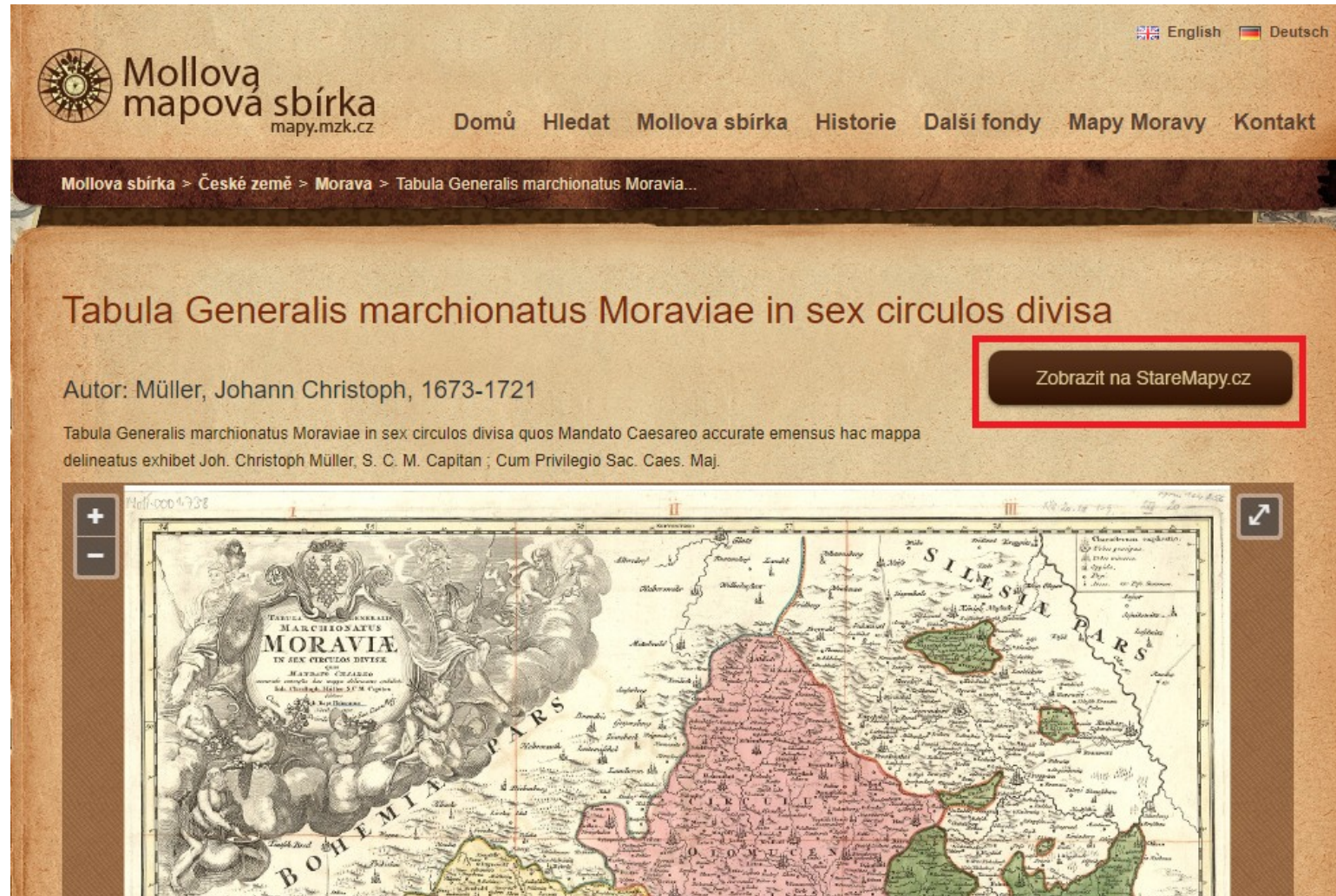
Get links

Actions

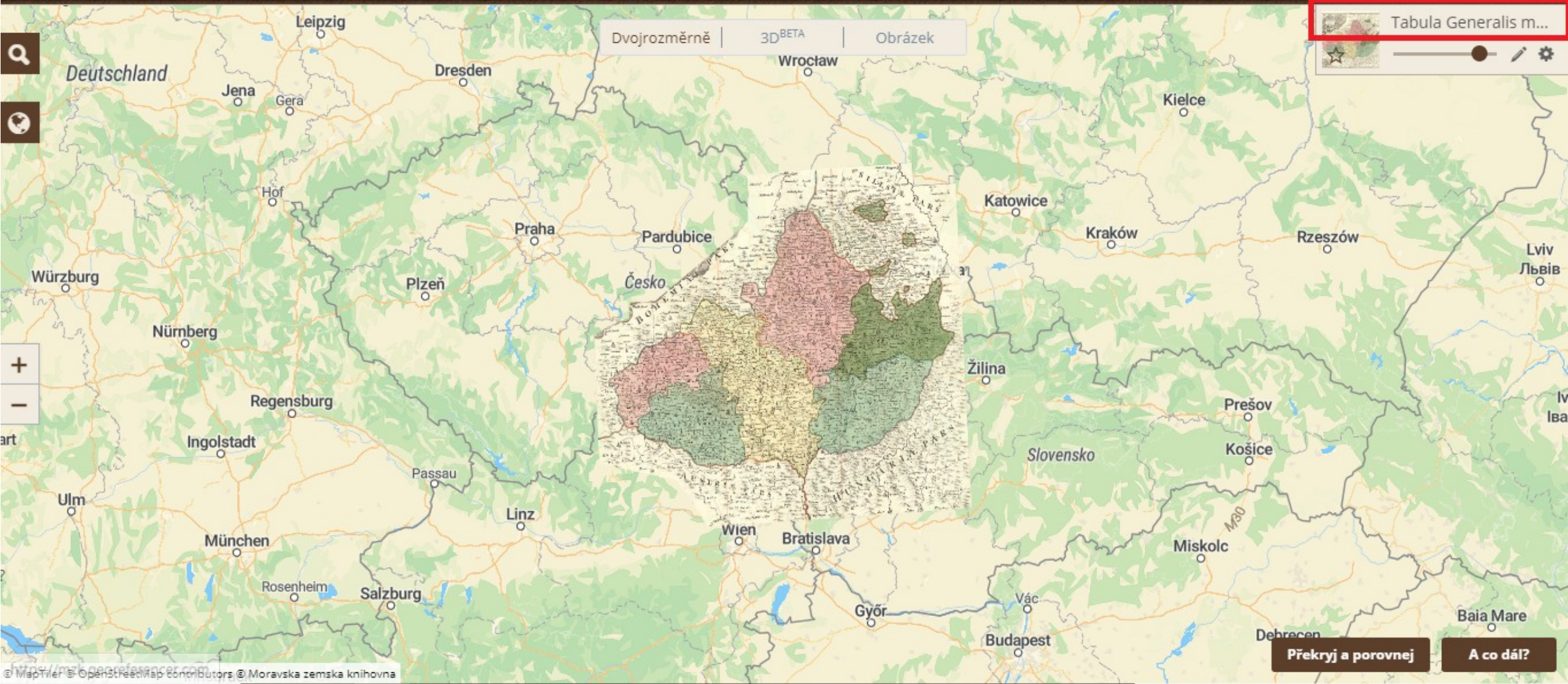
This map is active and counted against your quota. Removing it will archive all information except for the image file. If you then upload the same image again, you will be able to restore the map back.

QGIS – vložení podkladové mapy

- stažení podkladové mapy z portálu <https://mapy.mzk.cz>
 - zobrazit přes staremapy.cz, nutné přihlášení, link pro XYZ tiles nebo GeoTIFF soubor



The screenshot shows the website 'Mollova sbírka' (mapy.mzk.cz) with a navigation menu and a breadcrumb trail: 'Mollova sbírka > České země > Morava > Tabula Generalis marchionatus Moravia...'. The main content area displays the title 'Tabula Generalis marchionatus Moraviae in sex circulos divisa' and the author 'Autor: Müller, Johann Christoph, 1673-1721'. A red-bordered button labeled 'Zobrazit na StareMapy.cz' is visible. Below the text is a historical map of Moravia, divided into six colored regions (circuli), with a decorative cartouche on the left. The map includes labels for 'BOHEMIA PARS' and 'SILEZIA PARS'. The website header includes language options for English and Deutsch.





Přidej do záložek ☆

Mapové služby pro GIS

ArcGIS, QGIS nebo použij na webu. WMTS, TileJSON nebo XYZ dlaždice jsou poskytovány pro rychlý přístup ke zpracovaným mapám.

Získej odkazy

Stáhnout GeoTIFF

Stáhni si nejnovější verzi

Identifikátor

2619267548

Sbírka

MZK

Popis

Mollova mapová sbírka

Vyobrazené datum

Od 1716 do 1724

Datum vydání

Od 1716 do 1724

Autor

Müller, Johann Christoph

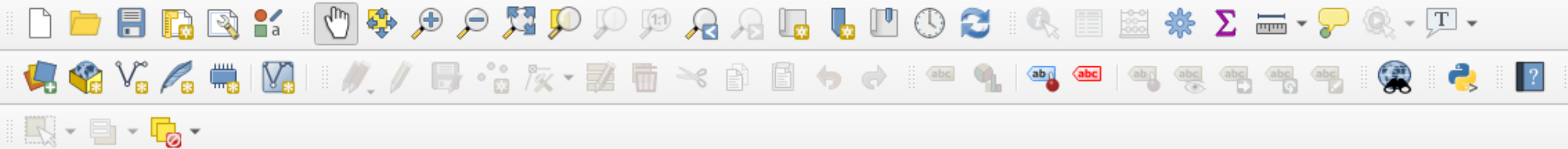
Vydavatel

Homann, Johann Christoph

Fyzický rozměr

48 × 57 cm

Update metadata



Browser

- WMS/WMTS
- Vector Tiles
- XYZ Tiles**
 - Hybrid
 - Morava**
 - OpenStreetMap
 - RoadMap
 - Satellite only
 - Terrain
 - Terrain only
- WCS
- WFS / OGC API - Features
- OWS

1 - New connection

XYZ Connection

Connection Details

Name: Morava

URL: <https://maps.georeferencer.com/georeferences/d8c65b59-adf3-5fcb-bd3c-42bc3dfd107a/2018-0>

Authentication

Configurations: Basic

Choose or create an authentication configuration

No Authentication

Configurations store encrypted credentials in the QGIS authentication database.

Min. Zoom Level: 0

Max. Zoom Level: 18

Referer:

Tile Resolution: Unknown (not scaled)

OK Cancel

2 - vložit URL zo stránky

QGIS – import dat

- Stažení/uložení tabulky v .csv formátu

The screenshot shows the QGIS Data Source Manager dialog for Delimited Text. The dialog is titled "Data Source Manager — Delimited Text". The file name is "C:\Users\Eduard\Downloads\Experiment - List 1.csv". The layer name is "Experiment - List 1". The encoding is set to "UTF-8". The file format is "CSV (comma separated values)". The geometry definition is "Point coordinates" with X field "X_coordinates", Y field "Y_coordinates", and Geometry CRS "EPSG:4326 - WGS 84". The layer settings are "Layer Settings". The sample data table is shown below.

1. File icon in the toolbar

2. Delimited Text button in the left sidebar

3. Ellipsis button in the file name field

4. Layer name field

5. CSV (comma separated values) radio button

6. Geometry Definition section

ID	Place_name	X_coordinates	Y_coordinates	Rok	Od	Do	Počet dní	Od2	Do2	
1	1	Stoličný Belehrad	18.41034	47.18995	1436	1.1.1436	22.2.1436	53	1436-01-01	1436-02-22
2	2	Buda-Pešť	19.03972	47.49611	1436	25.2.1436	21.3.1436	26	1436-02-25	1436-03-21
3	3	Temešvár	21.22908	45.75788	1436	2.4.1436	11.4.1436	10	1436-04-02	1436-04-11

13. Search bar at the bottom left

Coordinate: 784930,6276534 Scale: 1:11376186 Magnifier: 100% Rotation: 0,0° Render: EPSG:3857

QGIS – časová data

- Tutoriál: https://www.qgistutorials.com/en/docs/3/animating_time_series.html

Data je nutné mít ve formě RRRR-MM-DD

Layer Properties — Experiment - List 1 — Temporal

Temporal 2

3 Configuration Separate Fields for Start and End Date/Time

Individual features from the layer will be rendered if the range specified by the *Start* and *End* fields overlaps the map's temporal range.

If the *Start* field choice is empty, then features will be treated as having no start date. Similarly if the *End* field choice is empty, then features will be treated as having no end date.

4 Start field Od2

End field Do2

1 Temporal 1

Coordinate 769880,5794942 Scale 1:11376186 Magnifier 100% Rotation 0,0 ° Render EPSG:3857



Browser

- MSSQL
- Oracle
- DB2
- WMS/WMTS
- Vector Tiles
- XYZ Tiles
 - Hybrid
 - Morava
 - OpenStreetMap
 - RoadMap
 - Satellite only
 - Terrain
 - Terrain only

Temporal Controller

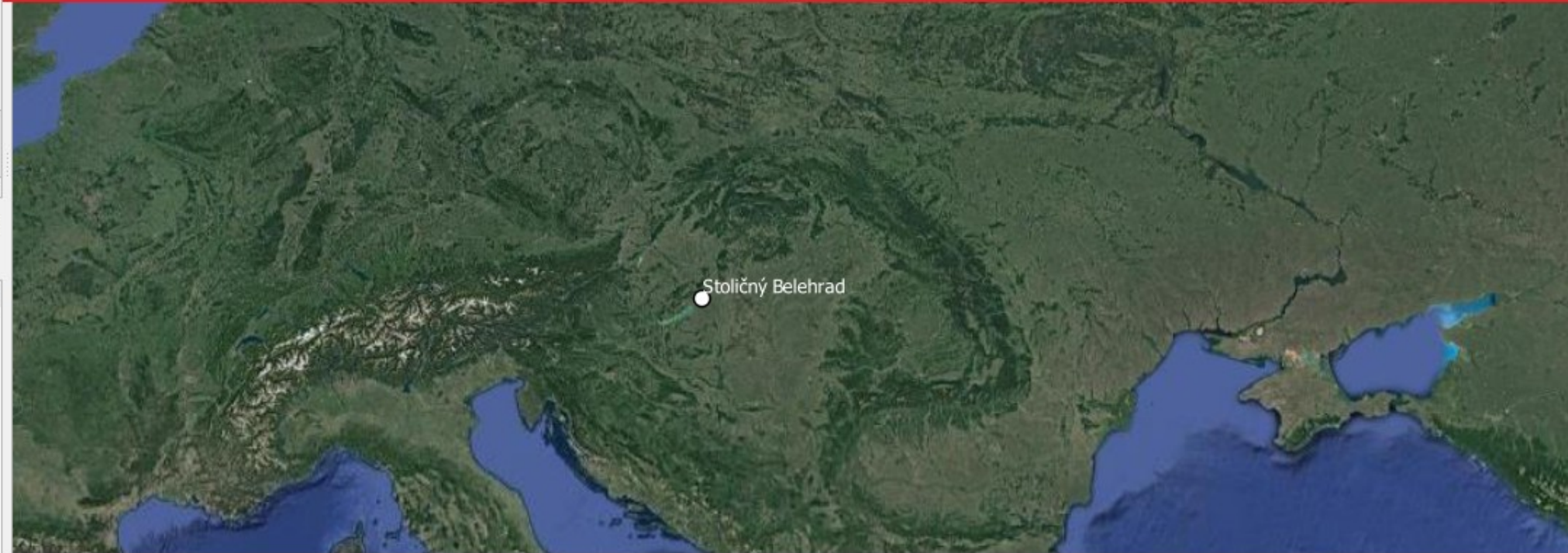
Frame: 1436-01-01 00:00:00 to 1436-01-31 00:00:00

Range 1436-01-01 00:00:00 to 1437-12-09 00:00:00 Step 1,000 months

Loop

Layers

- Experiment - List 1
- Satellite only



QGIS – export mapy

The image shows the QGIS desktop application interface. At the top, the title bar reads '*Untitled Project — QGIS'. The menu bar includes Project, Edit, View, Layer, Settings, Plugins, Vector, Raster, Database, Web, Mesh, Processing, and Help. The toolbar contains various icons for navigation and editing. On the left, the 'Browser' panel shows a tree view of data sources, with 'Satellite' selected under 'XYZ Tiles'. The 'Layers' panel shows 'Experiment - List 1' and 'Satellite' layers. The main map area displays a satellite view of a region with several cities labeled: Cheb, Žatec, Praha, Benešov, Vlašim, Klosterneuburg, Viedeň, Bratislava, Buda-Pešť, and Stoličný Belehrad. A red box highlights the 'Print' icon in the toolbar. A dialog box titled 'Create print layout' is open in the center, containing the text 'Enter a unique print layout title (a title will be automatically generated if left empty)' and an empty text input field. Below the input field are three buttons: 'OK', 'Cancel', and 'Help'. The status bar at the bottom shows 'Coordinate 1142162,6617491', 'Scale 1:4573837', 'Magnifier 100%', 'Rotation 0,0 °', 'Render', and 'EPSG:3857'.

New print layout

Create print layout

Enter a unique print layout title
(a title will be automatically generated if left empty)

OK Cancel Help

Type to locate (Ctrl+K)

Coordinate 1142162,6617491 Scale 1:4573837 Magnifier 100% Rotation 0,0 ° Render EPSG:3857

Možnosti exportu

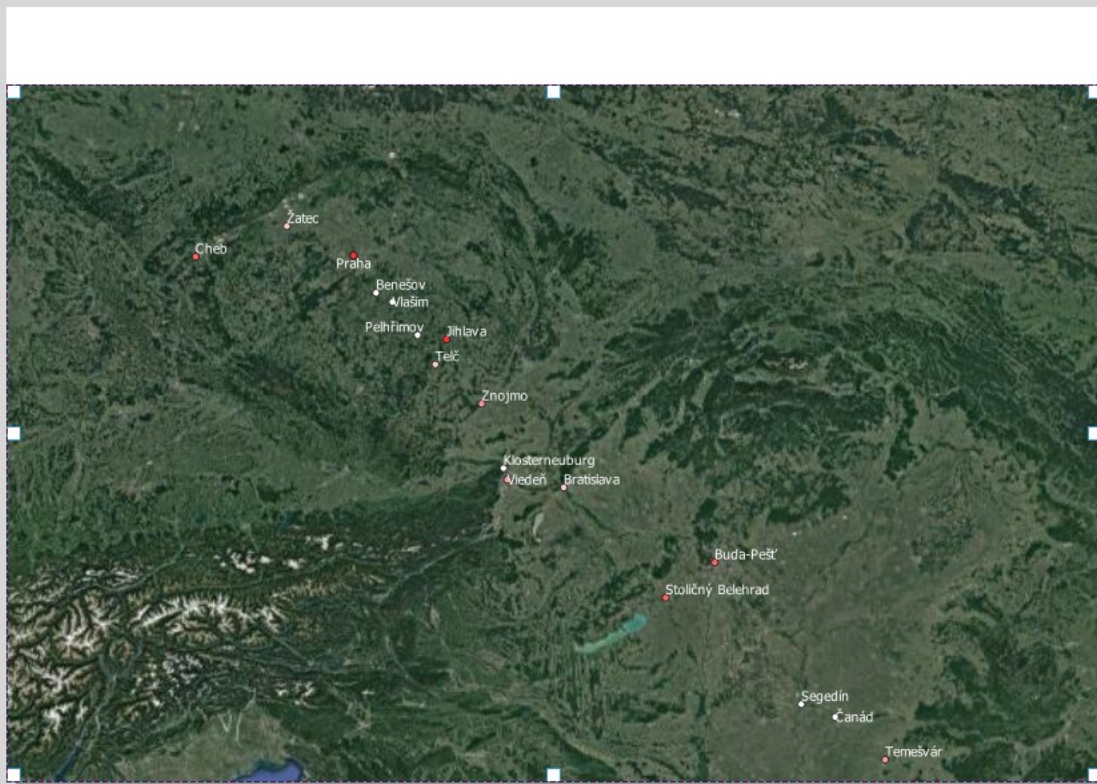


Úprava pridaných objektov

Pridanie mapy

Pridanie textu

Pridanie legendy,
mierky,
ružice



Items Undo History

Items

Item

Map 1

Layout Item Properties Guides

Item Properties

Map 1

Main Properties

Scale 5270924

Map rotation 0,00 °

CRS Use Project CRS

Draw map canvas items

Layers

Follow map theme (none)

Lock layers

Lock styles for layers

Extents

X min 1106402,390

Y min 5709549,998

X max 2671866,839

Y max 6705916,830