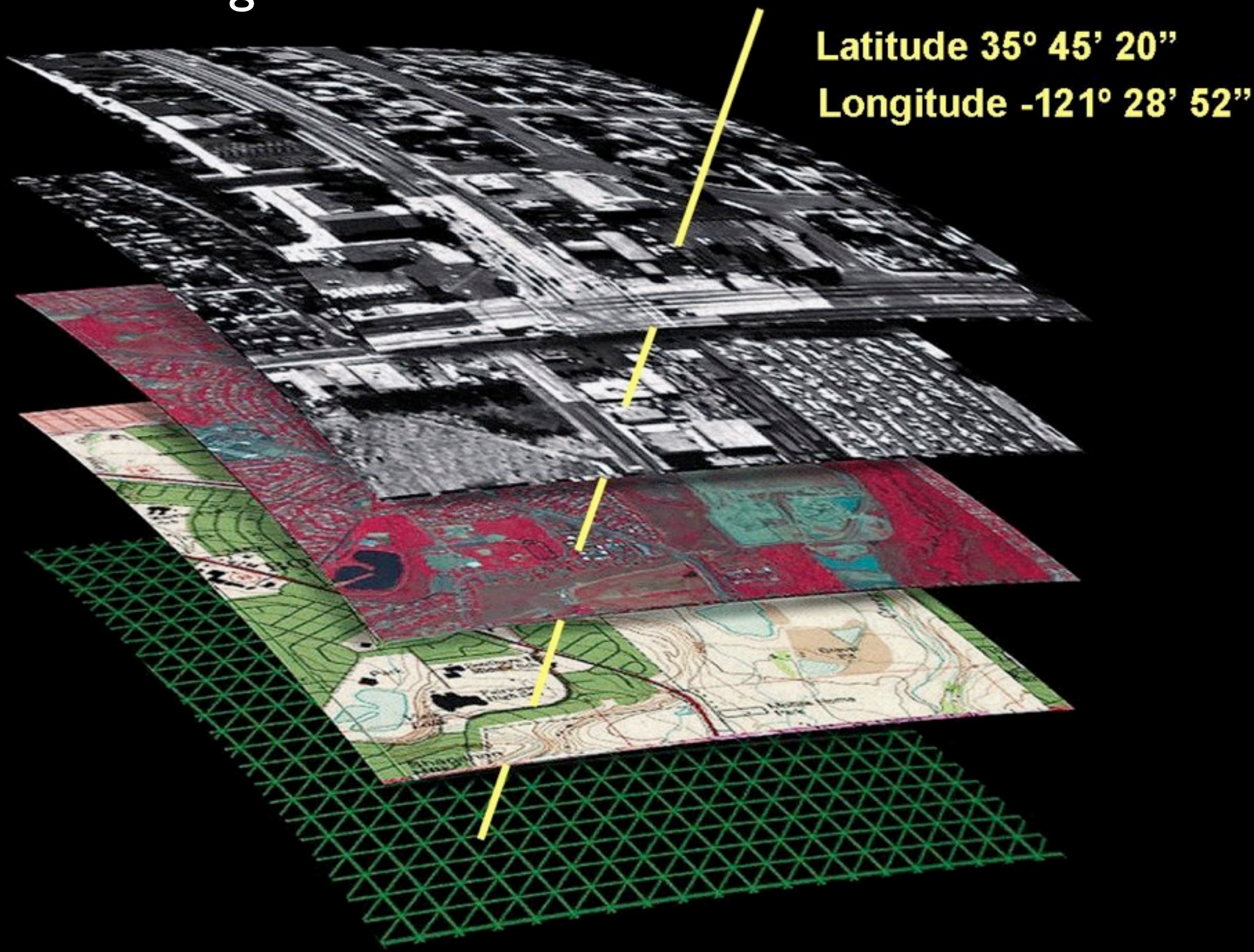
# Prostorska in krajinska arheologija-Vaje
# 8

# Georeferencing



Revidirt durch den Hauptmann Inspector von Hillmayr

Aufgenommen und berechnet durch Joseph Tava Gar

Quantum GIS 1.8.0-Lisboa

File Edit View Layer Settings Plugins Vector Raster Database Web Help

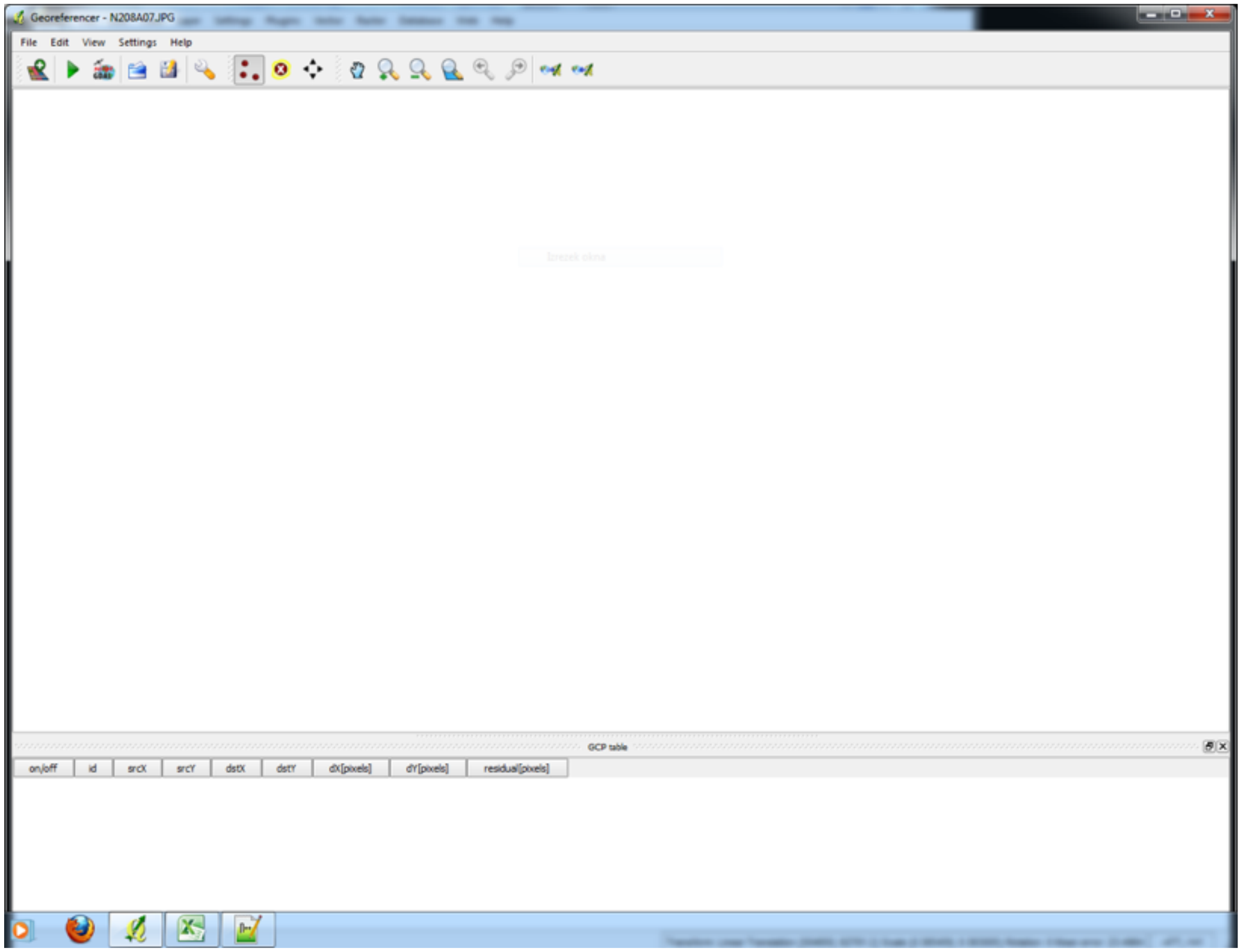
Layers

1498_00

Control rendering order

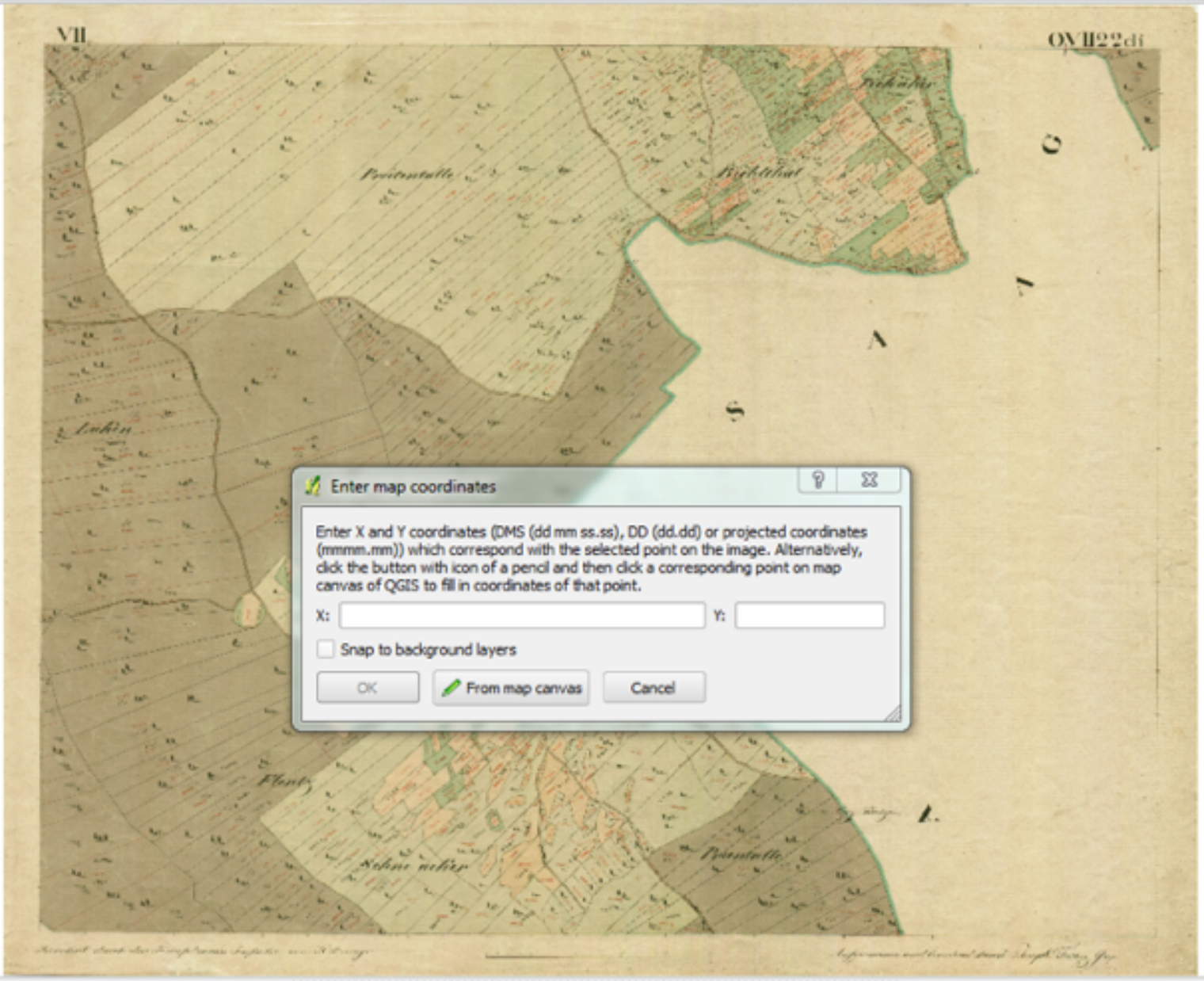
Coordinate: 502704,60909 Scale 1:50338 Render EPSG:3794

# Georeferencer (Raster->Georeferencer)



Georeferencer - N208A07JPG

File Edit View Settings Help




Enter map coordinates

Enter X and Y coordinates (DMS (dd mm ss.ss), DD (dd.dd) or projected coordinates (mmmm.mm)) which correspond with the selected point on the image. Alternatively, click the button with icon of a pencil and then click a corresponding point on map canvas of QGIS to fill in coordinates of that point.

X: Y:

Snap to background layers

OK From map canvas Cancel

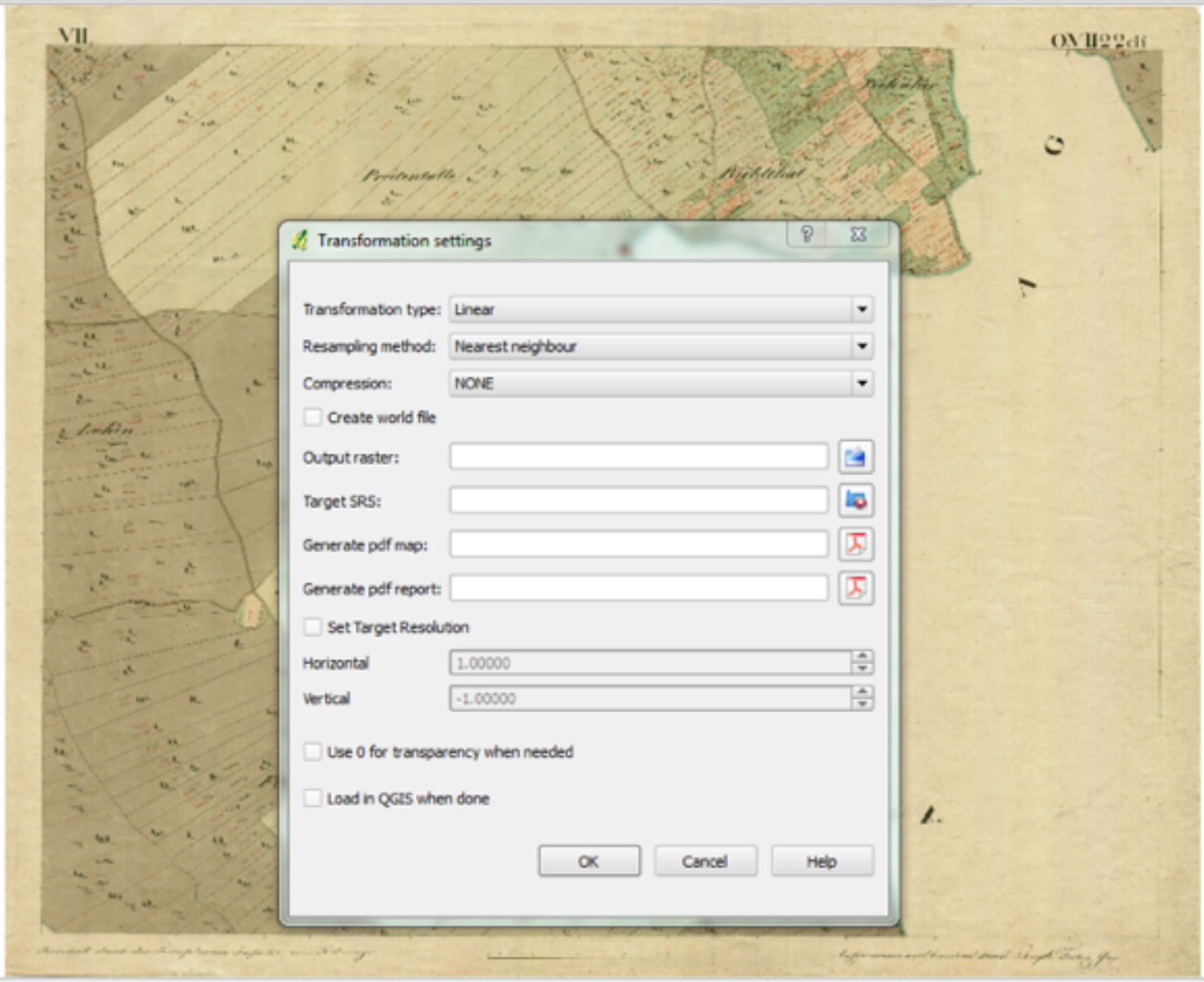
GCP table

| on/off | id | srcX | srcY | dstX | dstY | dX[pixels] | dY[pixels] | residual[pixels] |
|---|---|---|---|---|---|---|---|---|
| ✖ | 0 | 2470.41 | 2441.54 | 505847.45 | 62200.87 | 0.00 | 0.00 | 0.00 |

Transform: Linear Translation (504650, 62781.2) Scale (0.365459, 0.363005) Rotation: 0 Mean error: 23.4964 -873,-2934

Georeferencer - N208A07.JPG

File Edit View Settings Help




GCP table

| on/off | id | srcX | srcY | dstX | dstY | dX[pixels] | dY[pixels] | residual[pixels] |
|---|---|---|---|---|---|---|---|---|
| ✖ | 0 | 2470.41 | 2441.54 | 505847.45 | 62200.87 | 0.00 | 0.00 | 0.00 |
| ✖ | 1 | 2842.63 | 1122.98 | 506273.64 | 62334.06 | 0.00 | -0.00 | 0.00 |

Transform: Linear Translation (503019, 62447.5) Scale (1.145, 0.101009) Rotation: 0 Mean error: 0 -652,-126

Quantum GIS 1.8.0-Lisboa - a

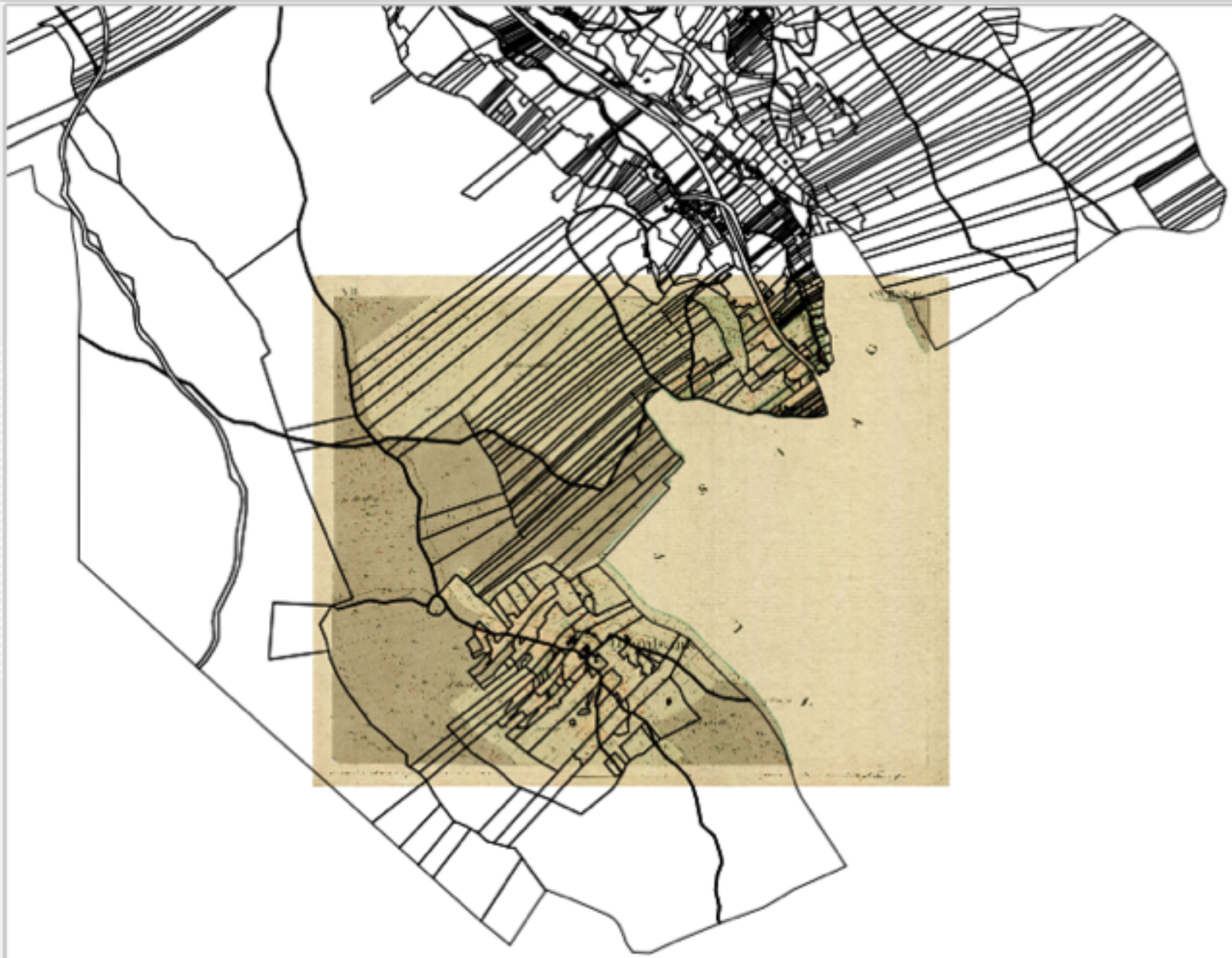
File Edit View Layer Settings Plugins Vector Raster Database Web Help

Layers

1498_00

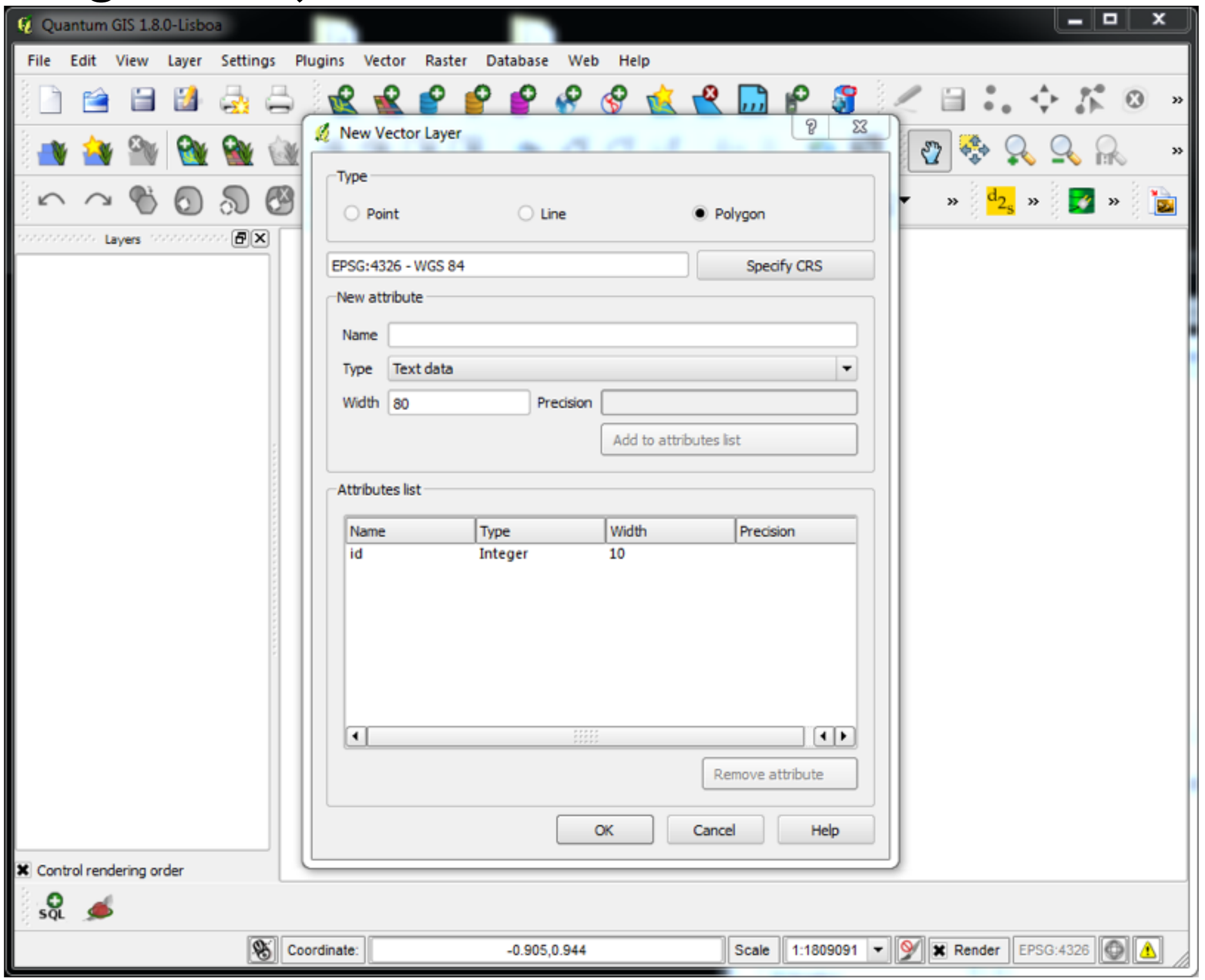
1

Control rendering order



Coordinate: 504122,63423 Scale 1:20660 Render EPSG:3794

# Digitalizacija



Quantum GIS 1.8.0-Lisboa

File Edit View Layer Settings Plugins Vector Raster Database Web Help

Layers

test

Control rendering order

SQL

Validation finished. Coordinate: -1.016,-0.878 Scale 1:1755432 Render EPSG:4326

Quantum GIS 1.8.0-Lisboa

File Edit View Layer Settings Plugins Vector Raster Database Web Help

Layers

test

Control rendering order

Attributes - test

id 1

OK Cancel

Validation finished. Coordinate: -1.016,-0.878 Scale 1:1755432 Render EPSG:4326

# Pravilne mreže

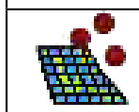
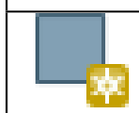
| Research tools available via the fTools plugin | | |
|---|---|---|
| **Icon** | **Tool** | **Purpose** |
| | Random selection | Randomly select n number of features, or n percentage of features |
| | Random selection within subsets | Randomly select features within subsets based on a unique ID field. |
| | Random points | Generate pseudo-random points over a given input layer. |
|  | Regular points | Generate a regular grid of points over a specified region and export them as a point shapefile. |
| | Vector grid | Generate a line or polygon grid based on user specified grid spacing. |
| | Select by location | Select features based on their location relative to another layer to form a new selection, or add or subtract from the current selection. |
|  | Polygon from layer extent | Create a single rectangular polygon layer from the extent of an input raster or vector layer. |

**Table 12.5.:** fTools Research tools

Quantum GIS 1.7.1-Wroclaw

Layers

Katalog_najdisc_zdruzeno_ID_C...

parc

Vector grid

Grid extent

1490_00

Update extents from layer

Update extents from canvas

X Min 515918.319709

Y Min 68900.2265094

X Max 516558.401637

Y Max 69345.2496106

Parameters

X 50.0000000000

Y 50.0000000000

Lock 1:1 ratio

Output grid as polygons

Output grid as lines

Output shapefile

Browse

Close

OK

0 30 m

Coordinate: 515975.4,69336.6

Scale 1:219578607

Render EPSG:3787

Quantum GIS 1.7.1-Wroclaw

Layers

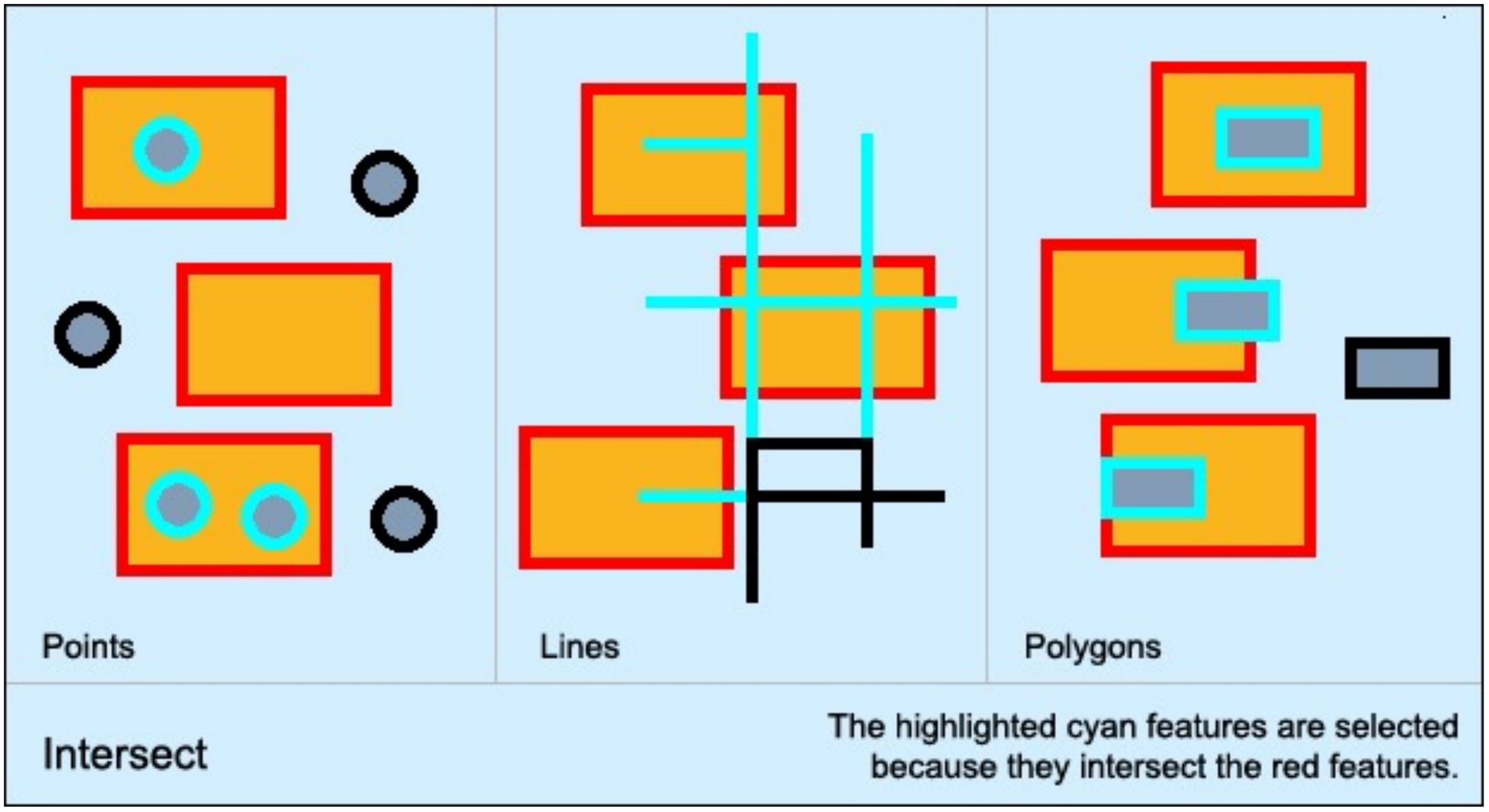
- mreza
- Katalog_najdisc_zdruzeno_ID_C...
- parc
- voron
- buff
- 1490_00

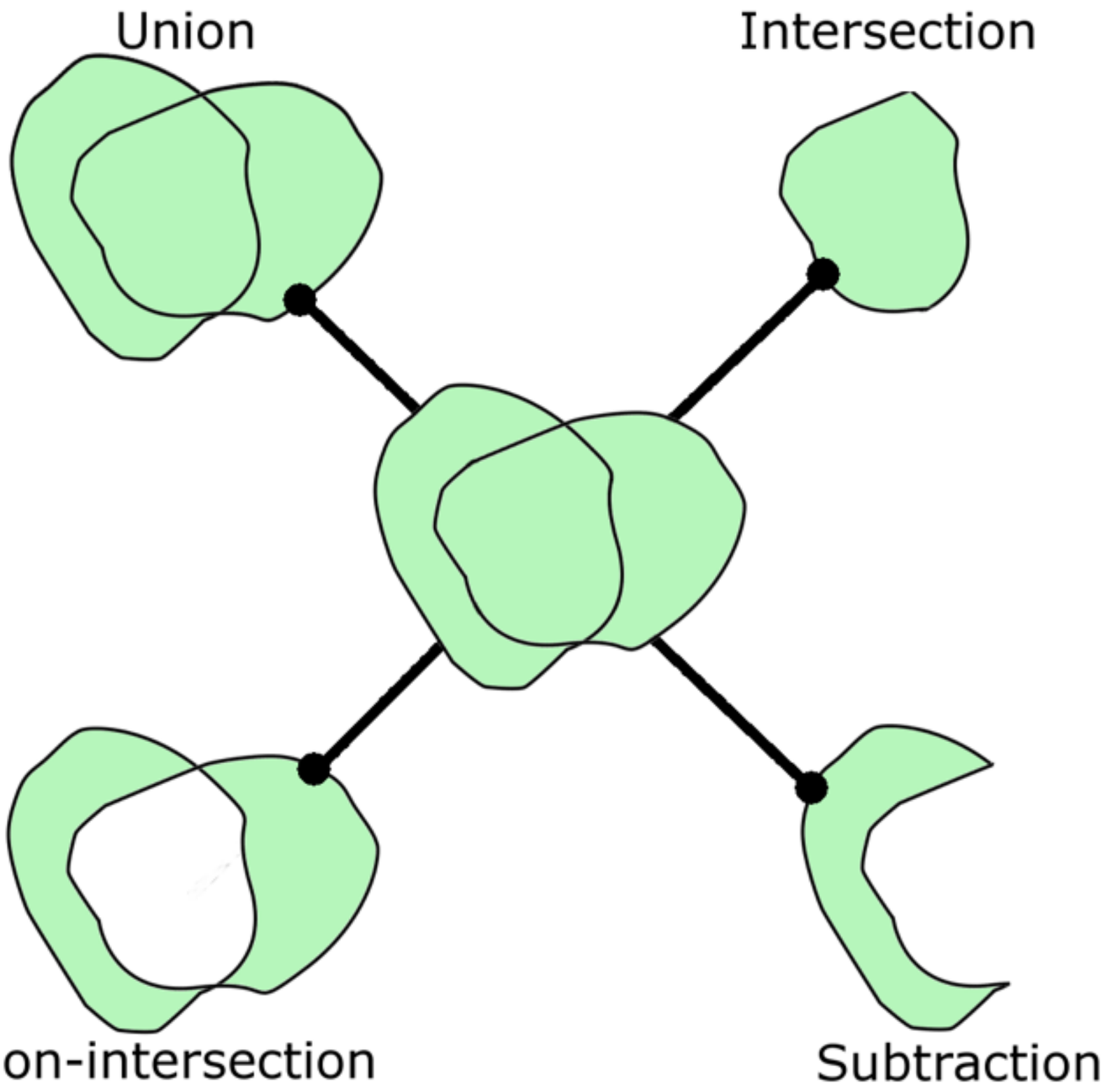
0 30 m

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 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 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |
| 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 |
| 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |
| 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 |
| 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 |
| N | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 |

Coordinate: 516013.7,68919.7 Scale 1:219578607 Render EPSG:3787

# Vektorske operacije






# Vektorske operacije

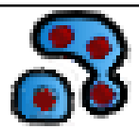
| Geoprocessing tools available via the fTools plugin | | |
|---|---|---|
| **Icon** | **Tool** | **Purpose** |
| | Convex hull(s) | Create minimum convex hull(s) for an input layer, or based on an ID field. |
|  | Buffer(s) | Create buffer(s) around features based on distance, or distance field. |
| | Intersect | Overlay layers such that output contains areas where both layers intersect. |
| | Union | Overlay layers such that output contains intersecting and non-intersecting areas. |
| | Symetrical difference | Overlay layers such that output contains those areas of the input and difference layers that do not intersect. |
| | Clip | Overlay layers such that output contains areas that intersect the clip layer. |
| | Difference | Overlay layers such that output contains areas not intersecting the clip layer. |
| | Dissolve | Merge features based on input field. All features with indentical input values are combined to form one single feature. |

**Table 10.6.:** fTools Geoprocessing tools

Quantum GIS 1.7.1-Wroclaw

Layers

- mrezaclip
- mreza
- Katalog_najdisc_zdruzeno_ID_C...
- parc
- voron
- buff
- 1490_00

0 30 m

N

Clip

Input vector layer

mreza

Use only selected features

Clip layer

mreza

Use only selected features

Output shapefile

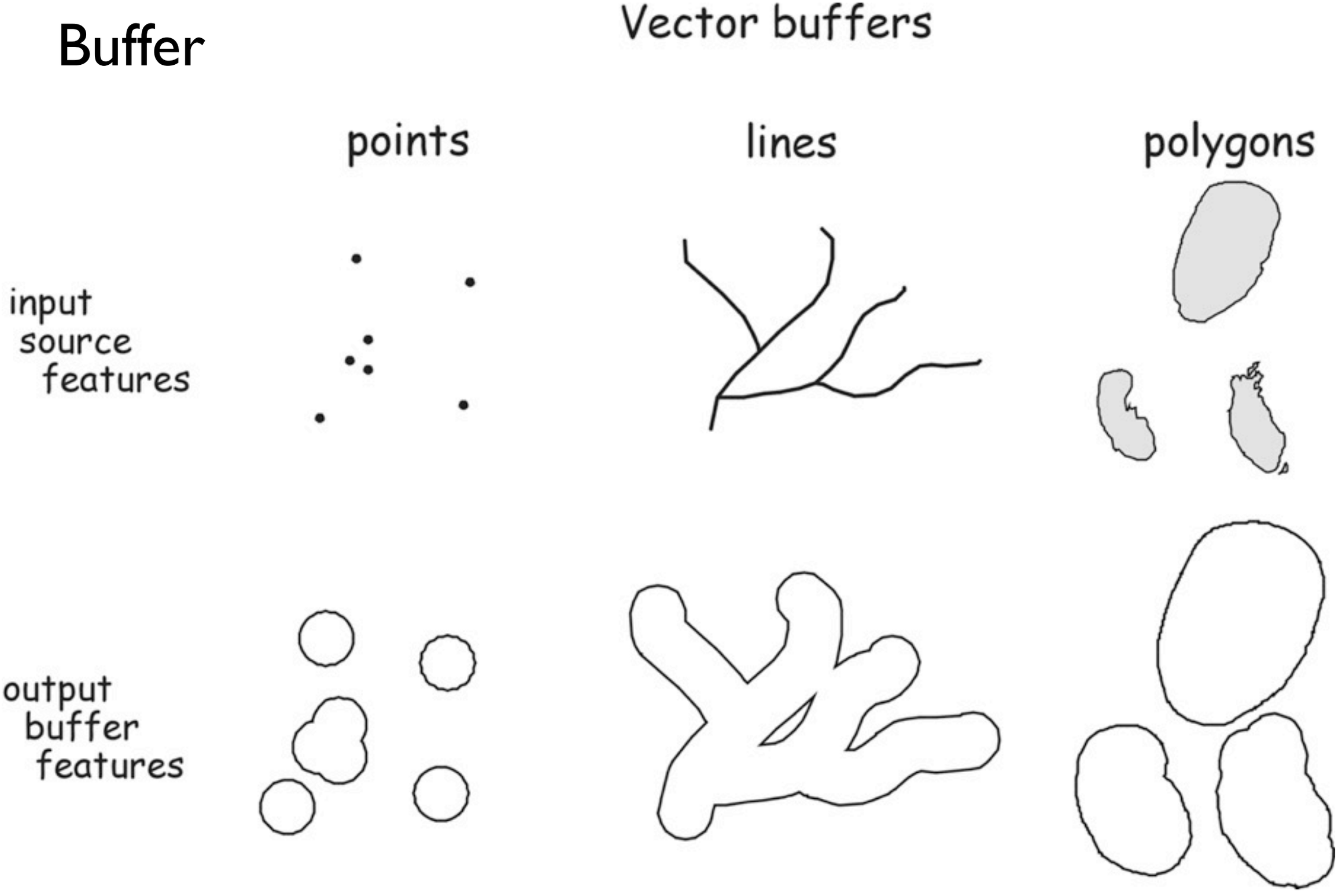
Browse

Close OK

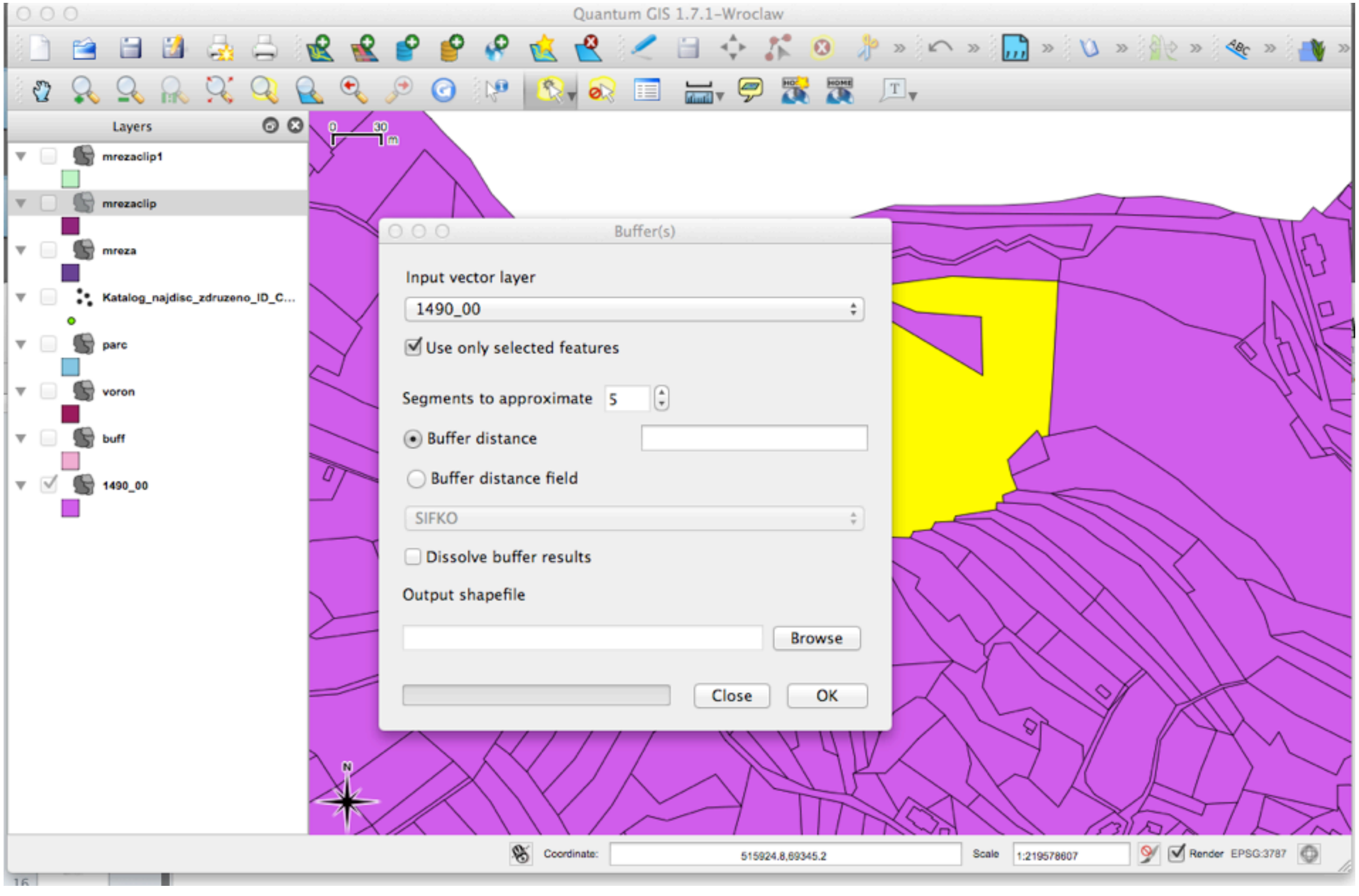
Coordinate:

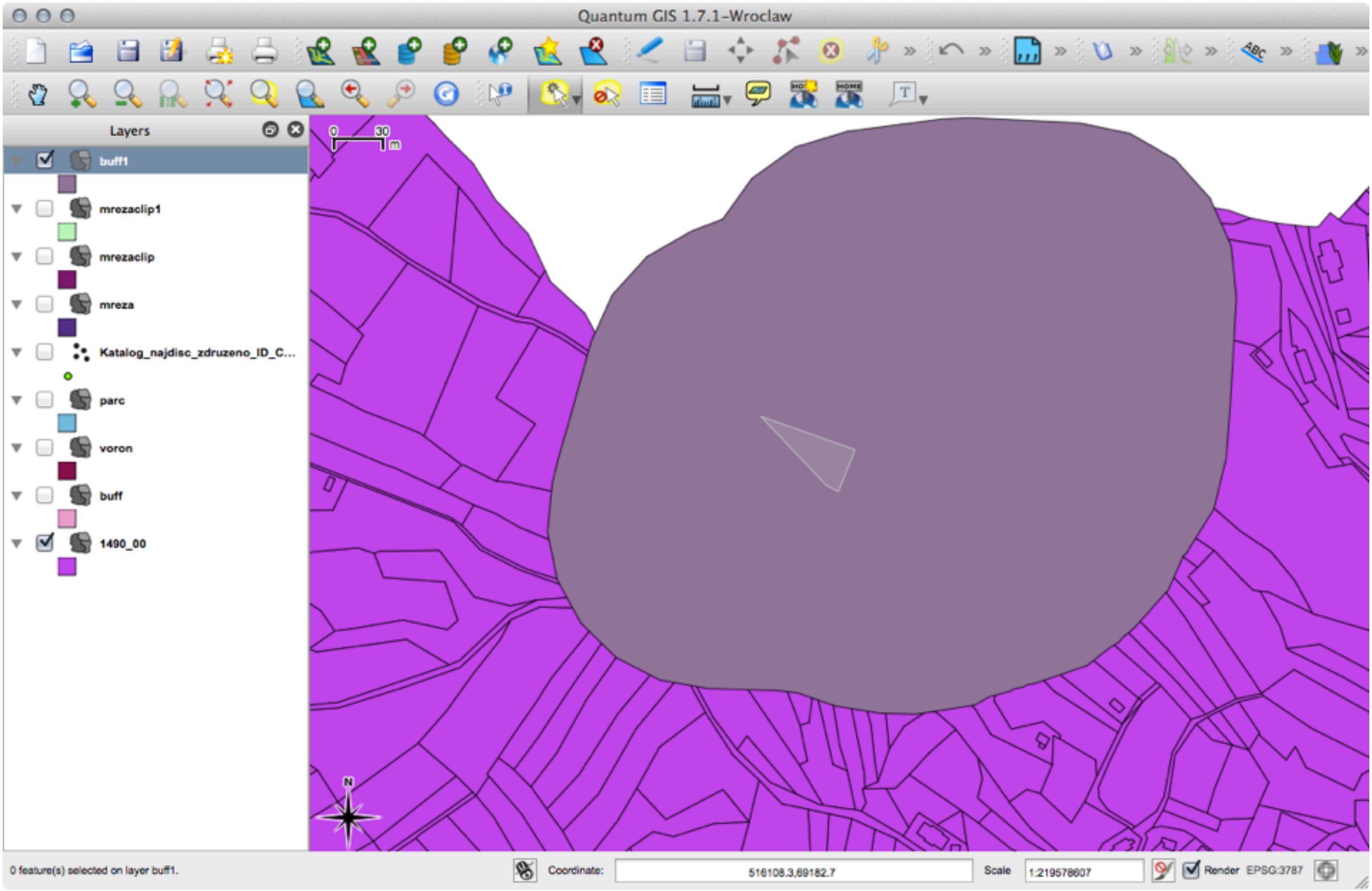
Render EPSG:3787

# Buffer

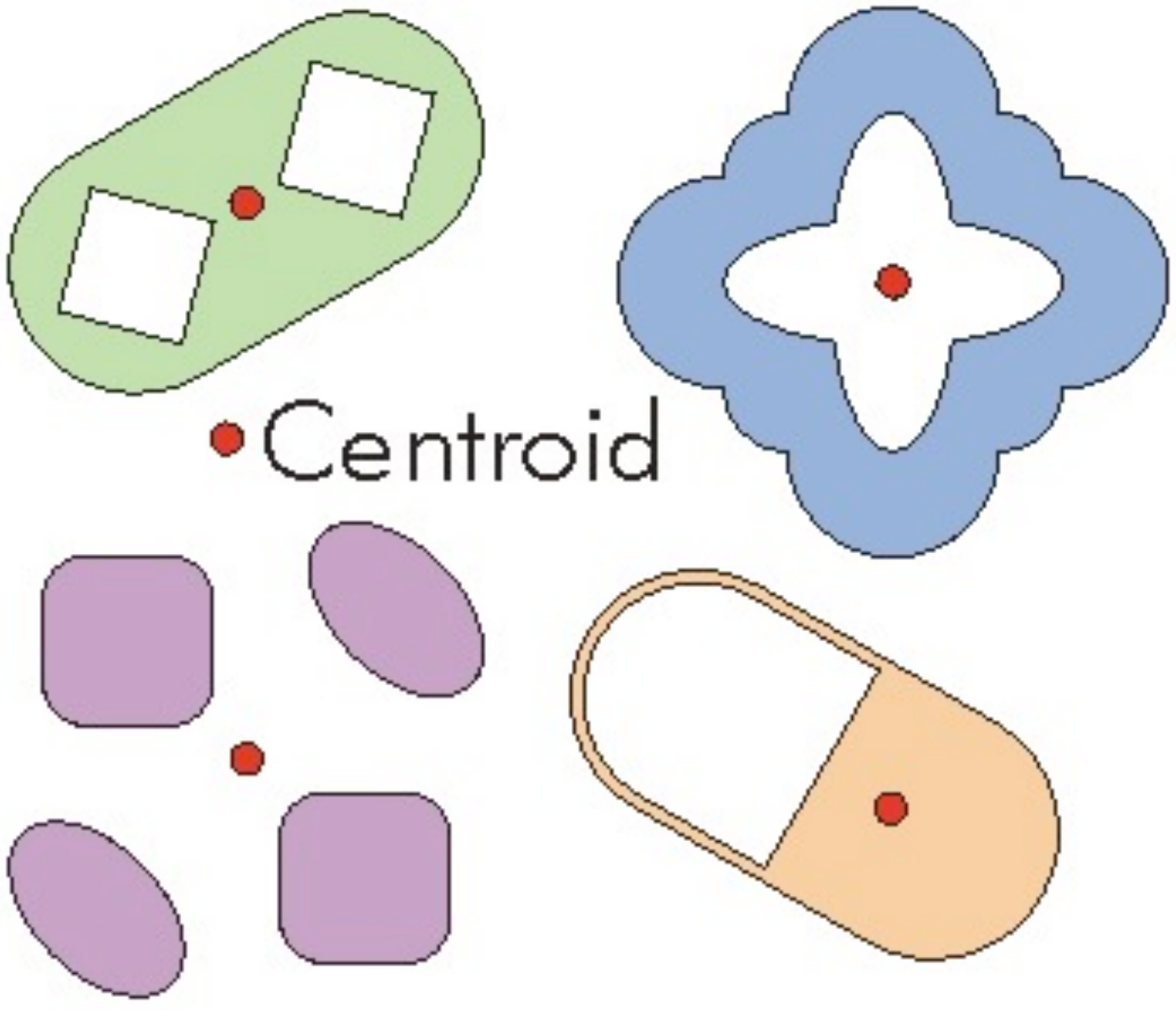

Vector buffers
points
lines
polygons
input
source
features
output
buffer
features

# Buffer

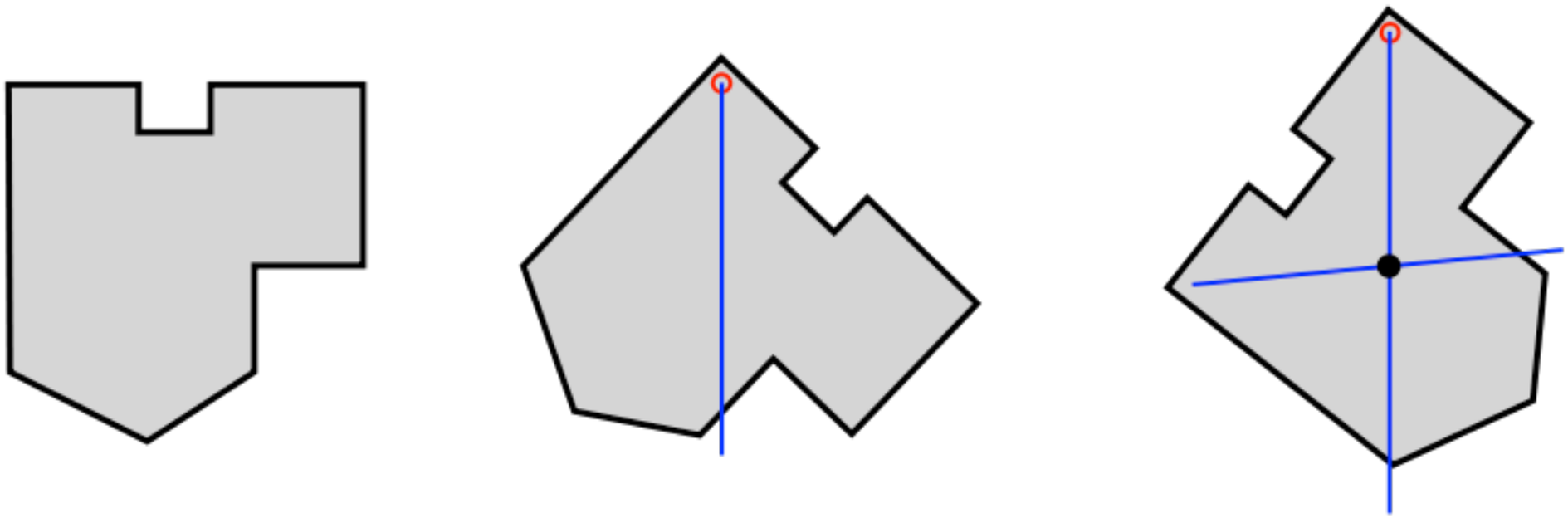

Quantum GIS 1.7.1-Wroclaw
Layers
mrezaclip1
mrezaclip
mreza
Katalog_najdisc_zdruzeno_ID_C...
parc
voron
buff
1490_00
0
30
m
Buffer(s)
Input vector layer
1490_00
Use only selected features
Segments to approximate
5
Buffer distance
Buffer distance field
SIFKO
Dissolve buffer results
Output shapefile
Browse
Close
OK
N
Coordinate:
515924.8,69345.2
Scale
1:219578607
Render
EPSG:3787


Quantum GIS 1.7.1-Wroclaw
Layers
buff1
mrezaclip1
mrezaclip
mreza
Katalog_najdisc_zdruzeno_ID_C...
parc
voron
buff
1490_00
0
30
m
N
0 feature(s) selected on layer buff1.
Coordinate:
516108.3,69182.7
Scale
1:219578607
Render
EPSG:3787

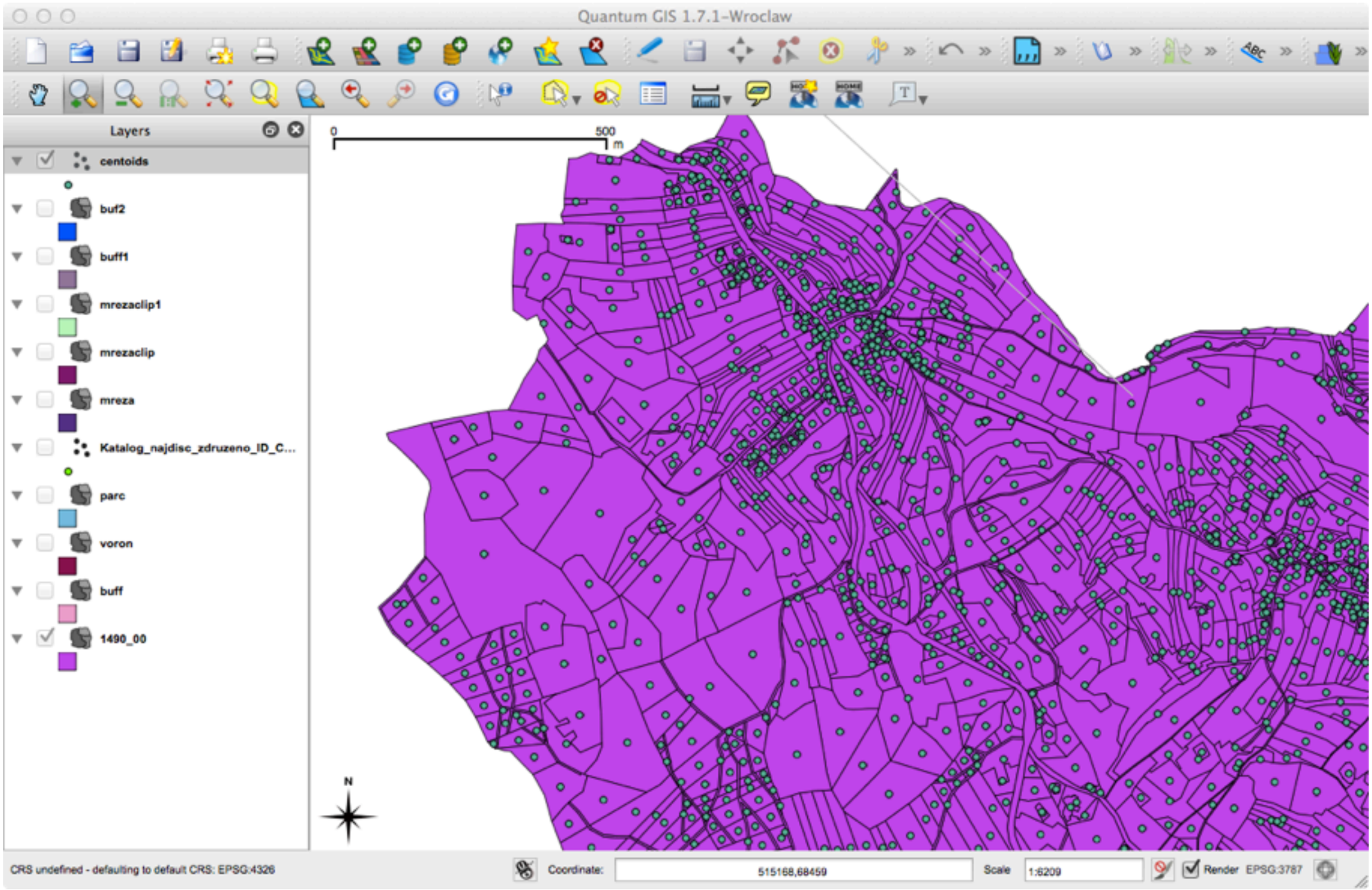
# Centroidi



# Centorid



# Centroidi


Quantum GIS 1.7.1-Wroclaw
Layers
centoids
buf2
buff1
mrezaclip1
mrezaclip
mreza
Katalog_najdisc_zdruzeno_ID_C...
parc
voron
buff
1490_00
0
500
m
N
CRS undefined - defaulting to default CRS: EPSG:4326
Coordinate:
515168,68459
Scale
1:6209
Render
EPSG:3787

Quantum GIS 1.7.1-Wroclaw

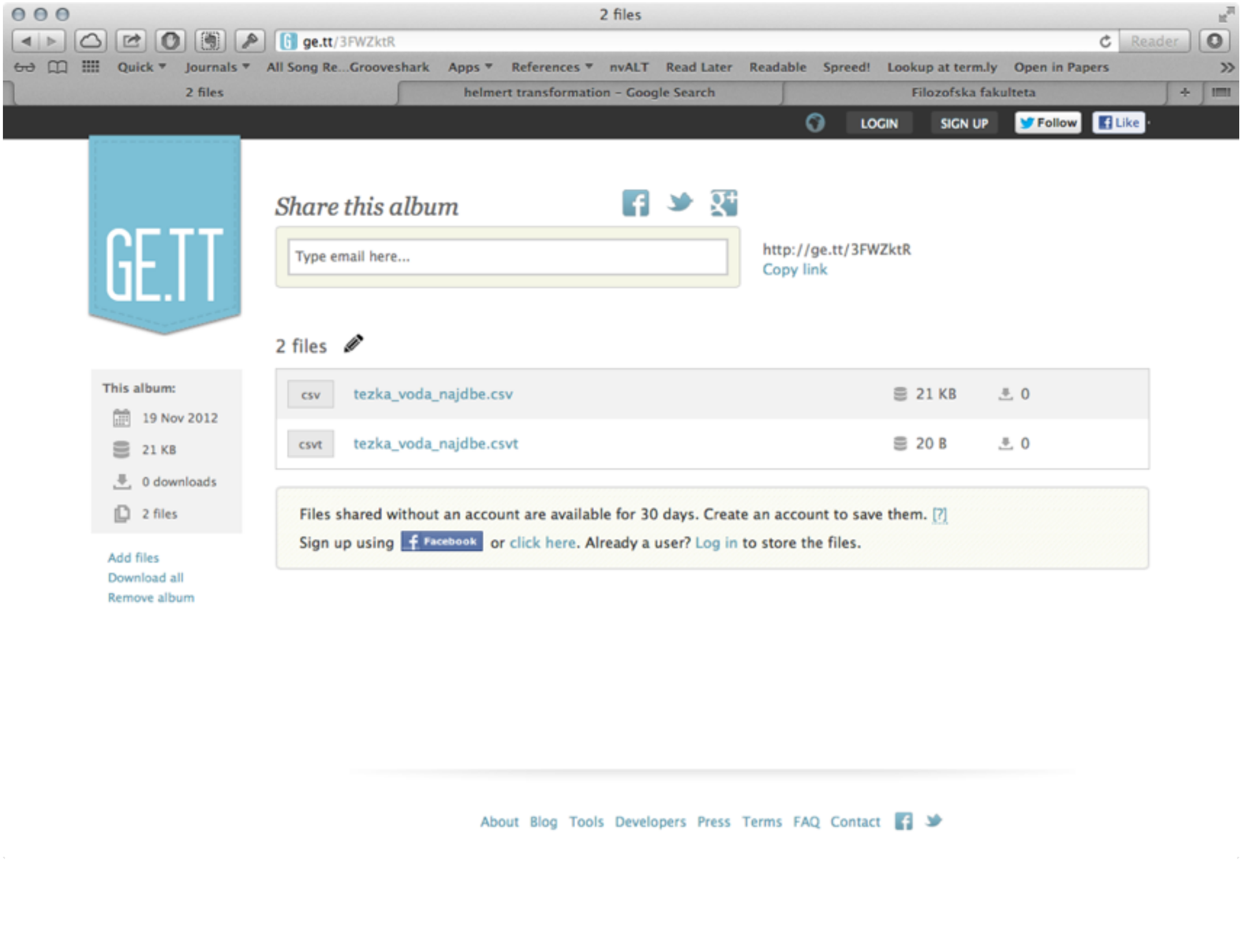
Layers

centoids
0000 - 10309.2000
0309.2000 - 20618.4000
0618.4000 - 30927.6000
0927.6000 - 41236.8000
1236.8000 - 51546.0000
buf2
buff1
mrezaclip1
mrezaclip
mreza
Katalog_najdisc_zdruzeno_ID_C...
parc
voron
buff
1490_00

0 500 m

N

defaulting to default CRS: EPSG:4326

Coordinate: 515341,68770 Scale 1:6209 Render EPSG:3787

http://ge.tt/3FWZktR?c