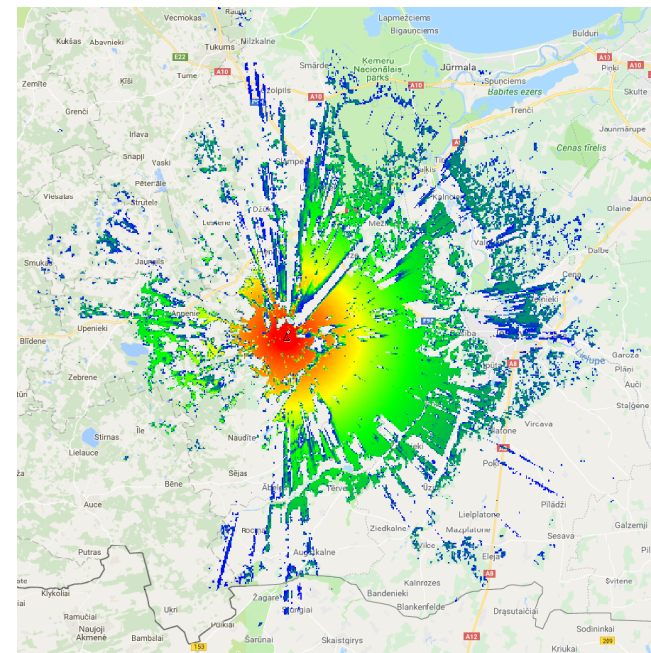


"CG X-border coordination - 26 GHz" (CG X-border #11 - 26 GHz (WI PT1\_22))

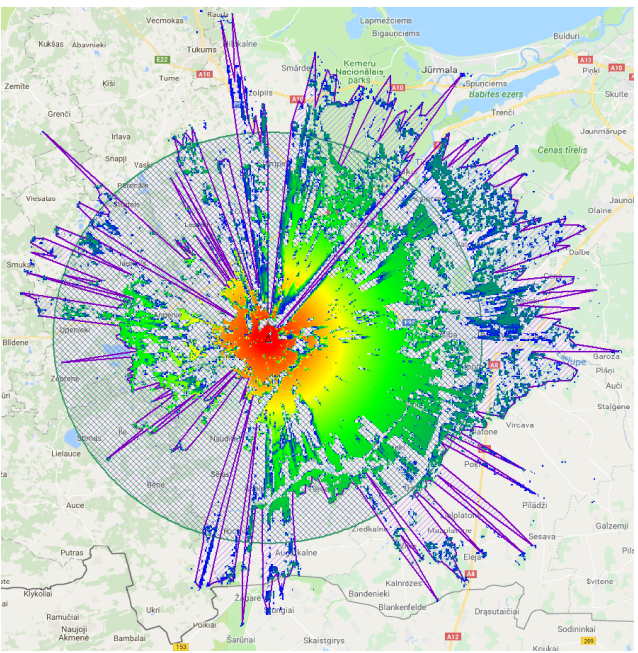
Radiowave propagation prediction calculations using ITU-R P.452-16

The calculations were performed using non-directional (omi) antenna using parameters/settings provided below.

Representation of calculation results in the raster format:



Representation of calculation results in the polygon/raster format:



For calculations with “flat terrain” (no terrain) the contour radius is about 26 km (green circle in the picture in the right side), and for calculations with terrain (SRTM3) the contour max radius in this particular case is about 40 km (purple broken line contour in the picture in the right side).

Calculation settings:

Calculate Coverage

Transmitter  
Name: E023°16'55.8  
Longitude: N56°38'48.7  
Latitude: 26000 MHz  
Frequency: 30 dBW  
ERP (max): 15 m  
Antenna height: Auto  
Site elevation: ND  
Polarization: H  
System: Analog  
Bandwidth: 4 kHz

Receiver  
Antenna height: 3 m  
Bandwidth: 4 kHz  
Frequency offset: 0 kHz

Results  
☐ Raster  
☒ Polygon

Area  
Radius around transmitter: 100 km

Model  
ITU-R P.452-16

OK Cancel

ITU-R P.452-16 Options

Time percentage: 10 % [0.001 - 50]

Antenna gains  
TX antenna gain (Gt): 0 dBi  
RX antenna gain (Gr): 0 dBi

Clutter losses near TX  
☐ Calculate clutter losses near TX  
Clutter/ground cover category: [dropdown]  
Nominal height of clutter: 4 m  
Nominal distance from TX: 0.1 km

Sub-models  
☒ Diffraction  
☒ Anomalous propagation (ducting and layer reflection/refraction)  
☒ Tropospheric scatter

Clutter losses near RX  
☐ Calculate clutter losses near RX  
Clutter/ground cover category: [dropdown]  
Nominal height of clutter: 4 m  
Nominal distance from RX: 0.1 km

OK Cancel

Vector Coverage Options

Field Strength  
E: 35 dB(uV/m)

Resolution  
Step: 1°

Result layer  
26 GHz\_TDD  
☐ Clear previous results

OK Cancel