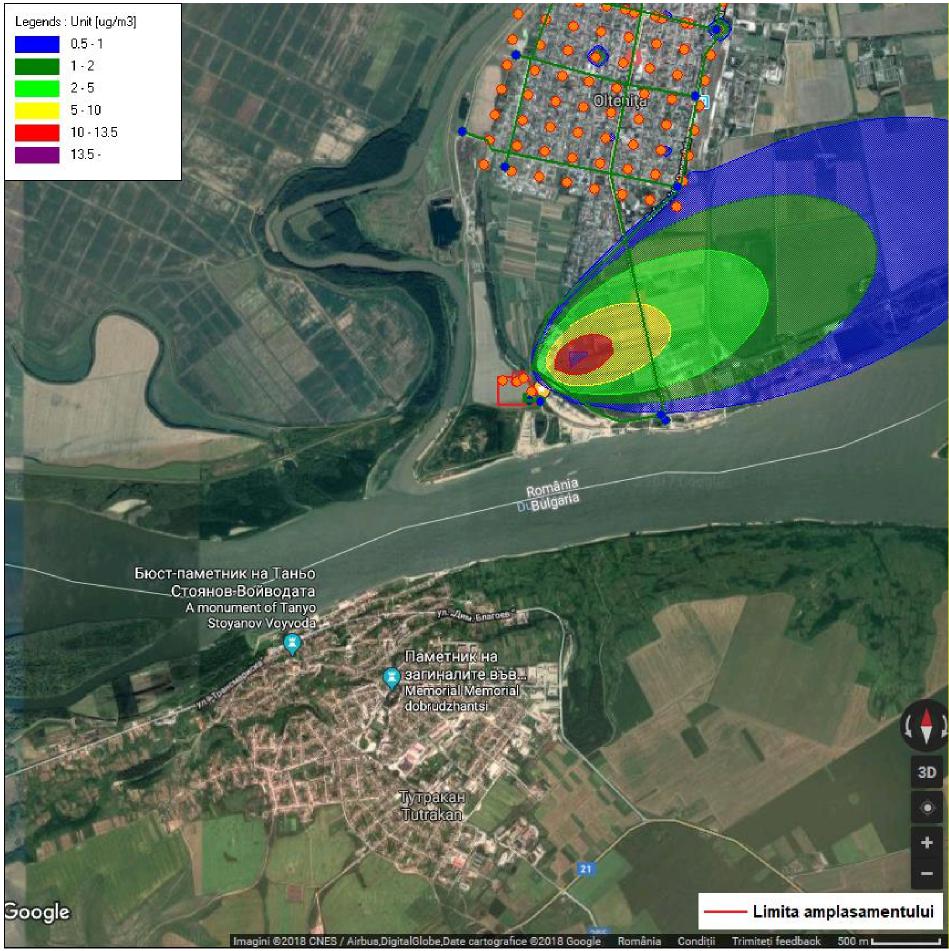
Annex no. 18 - The spatial distribution of SO 2concentration in the air for the analysed scenarios - cumulative impact

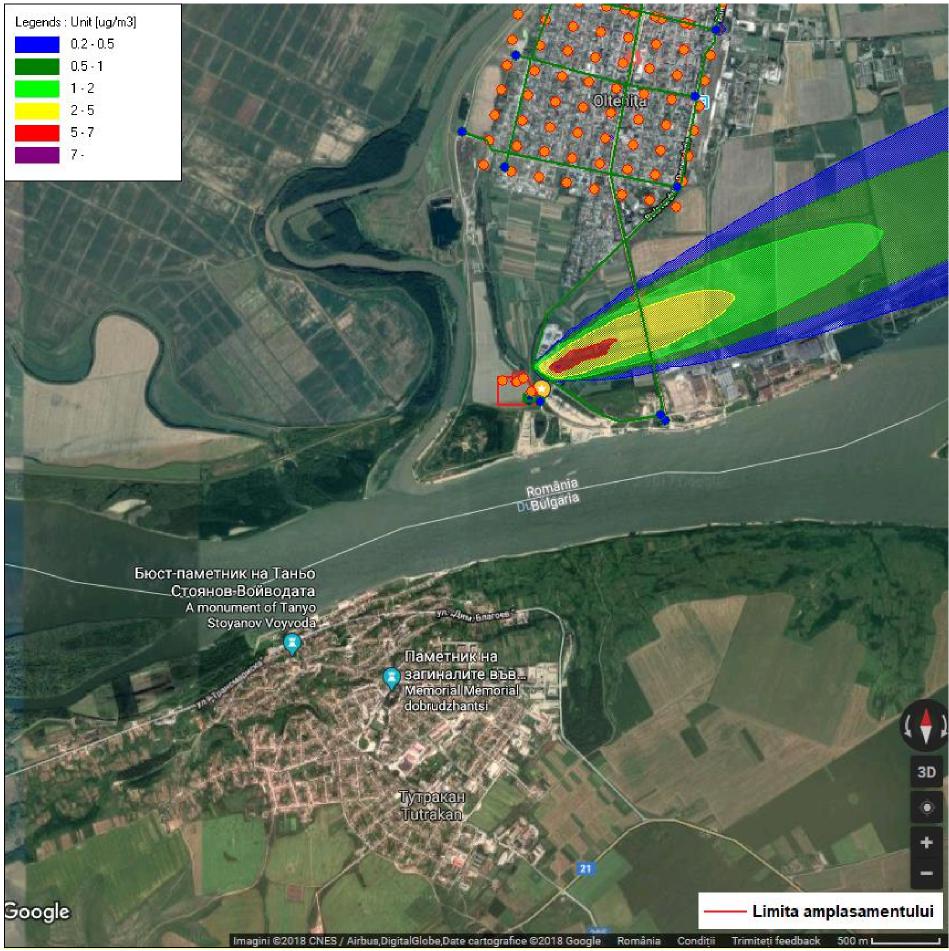


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

WSW wind direction, unstable atmospheric stratification (B),   
wind speed 1 m/s temperature 25°C (sunny day)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 13.91 µg/mc at the point x = 4200 m, y = 4400 m

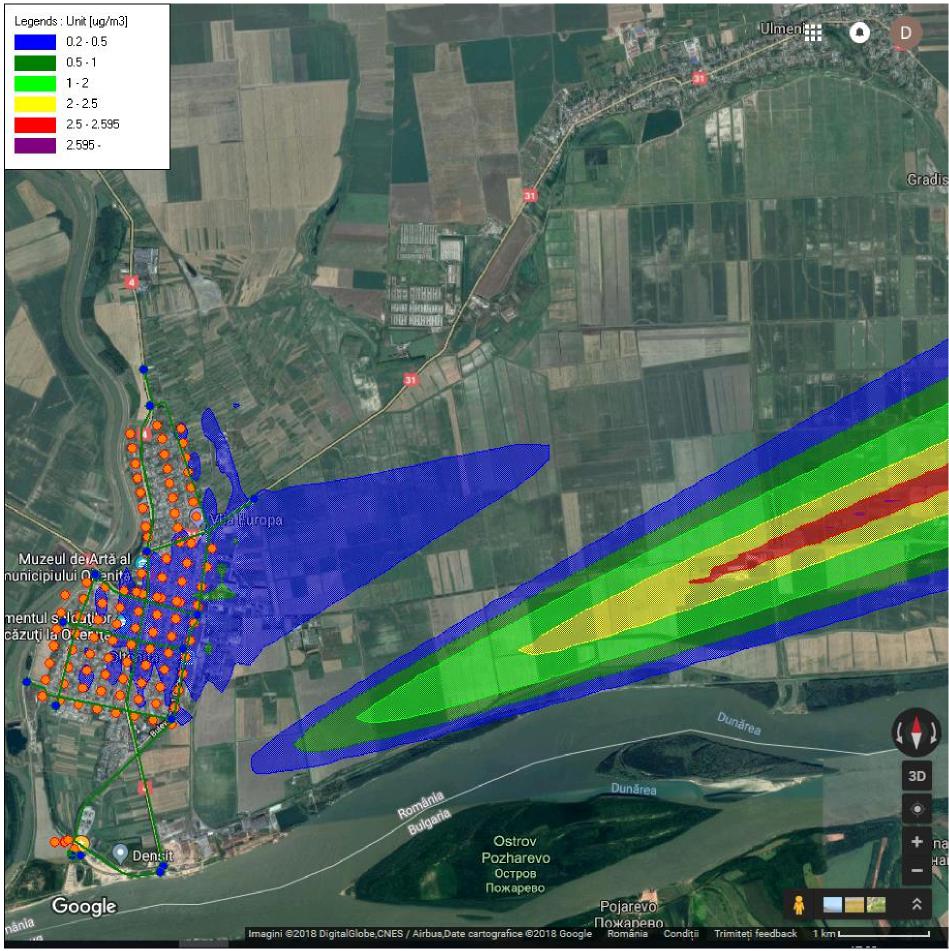


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

WSW wind direction, neutral atmospheric stratification (D),   
wind speed 10 m/s, temperature 15 °C (conditions of storm)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 7.47 µg/mc at the point x = 4100 m, y = 4300 m

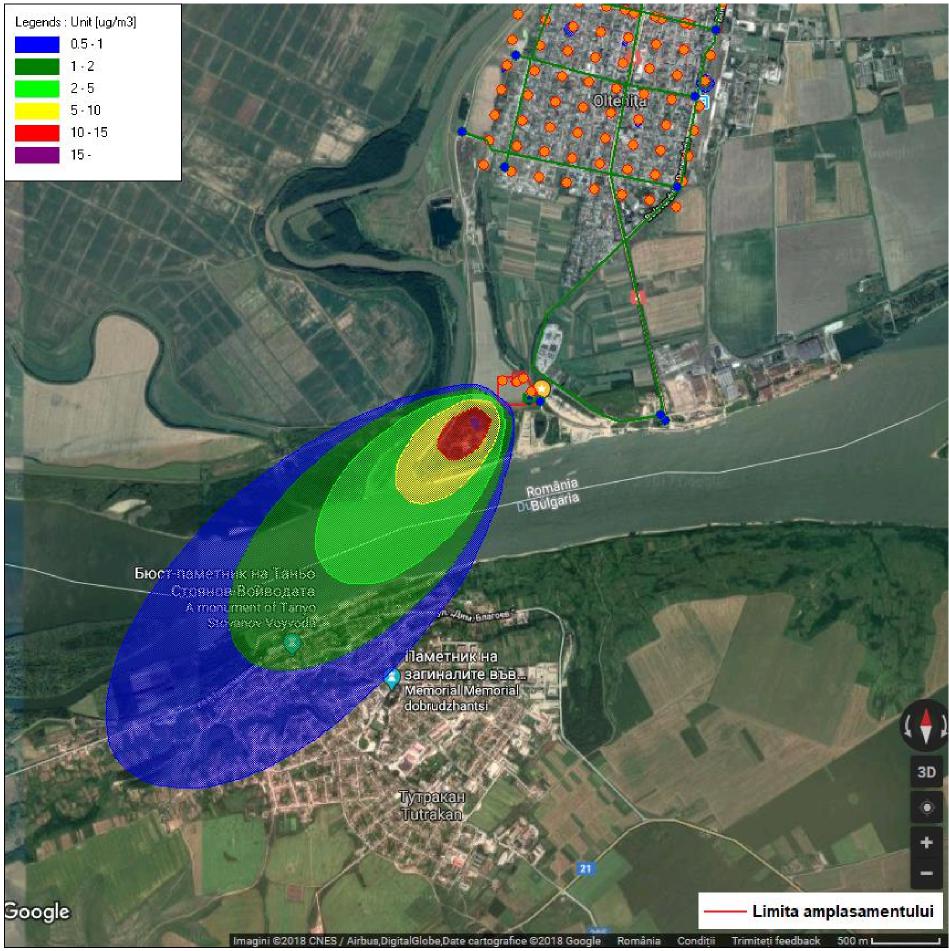


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

WSW wind direction, stable atmospheric stratification (F),   
wind speed 0.5 m/s, temperature 15 °C (during the night)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 2.60 µg/mc at the point x = 9450 m, y = 4800 m

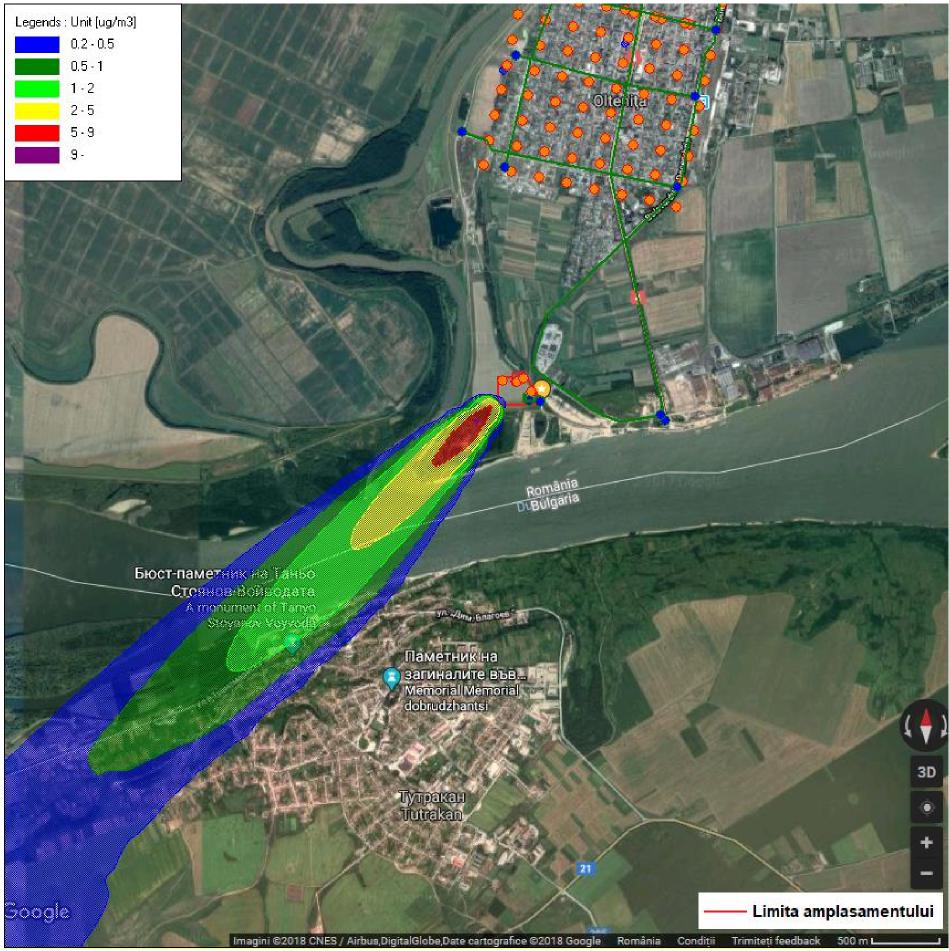


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

NE wind direction, unstable atmospheric stratification (B),   
wind speed 1 m/s temperature 25°C (sunny day)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 16,09 µg/mc at the point x = 3500 m, y = 3900 m

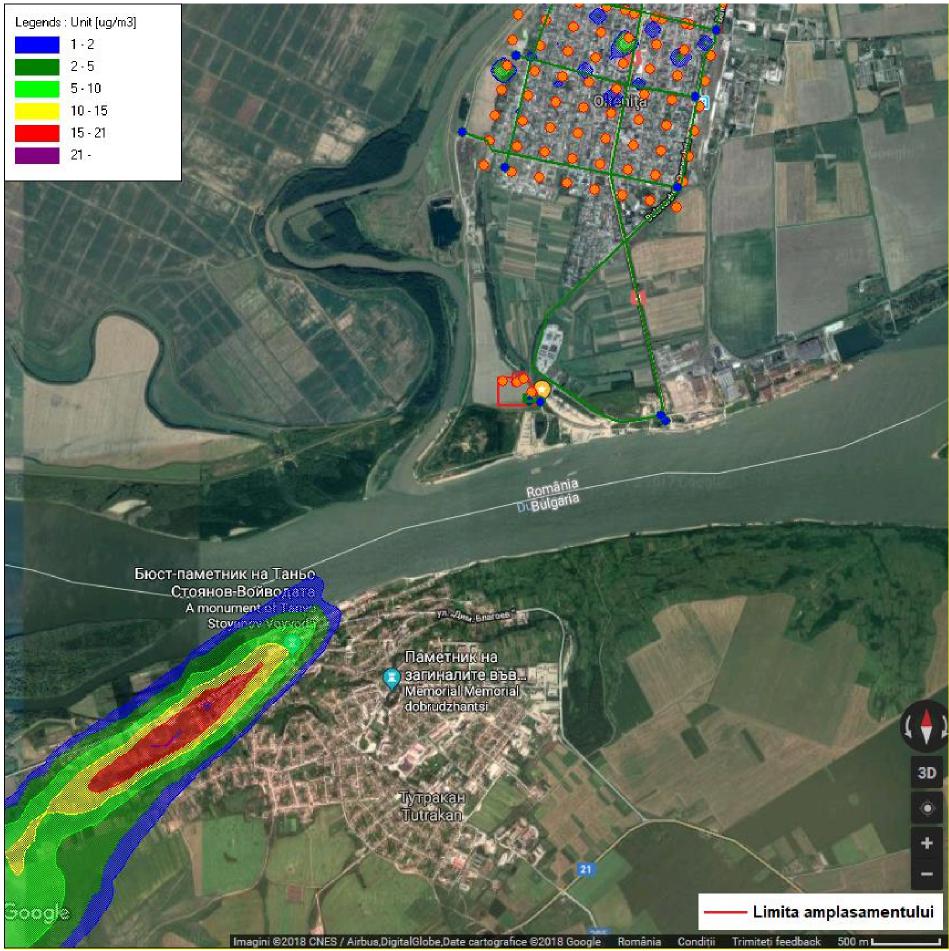


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

NE wind direction, neutral atmospheric stratification (D),   
wind speed 10 m/s, temperature 15 °C (conditions of storm)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 9.97 µg/mc at the point x = 3500 m, y = 3900 m

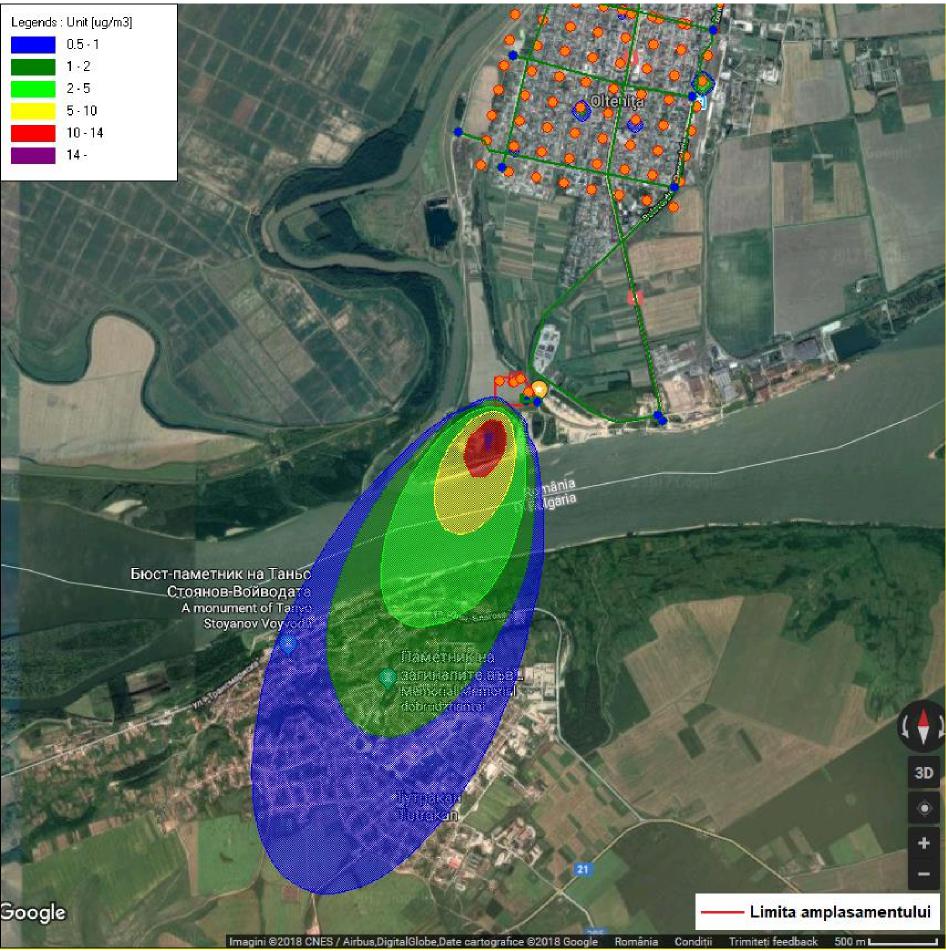


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

NE wind direction, stable atmospheric stratification (F),   
wind speed 0.5 m/s, temperature 15 °C (during the night)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 22.19 µg/mc at the point x = 1500 m, y = 1800 m

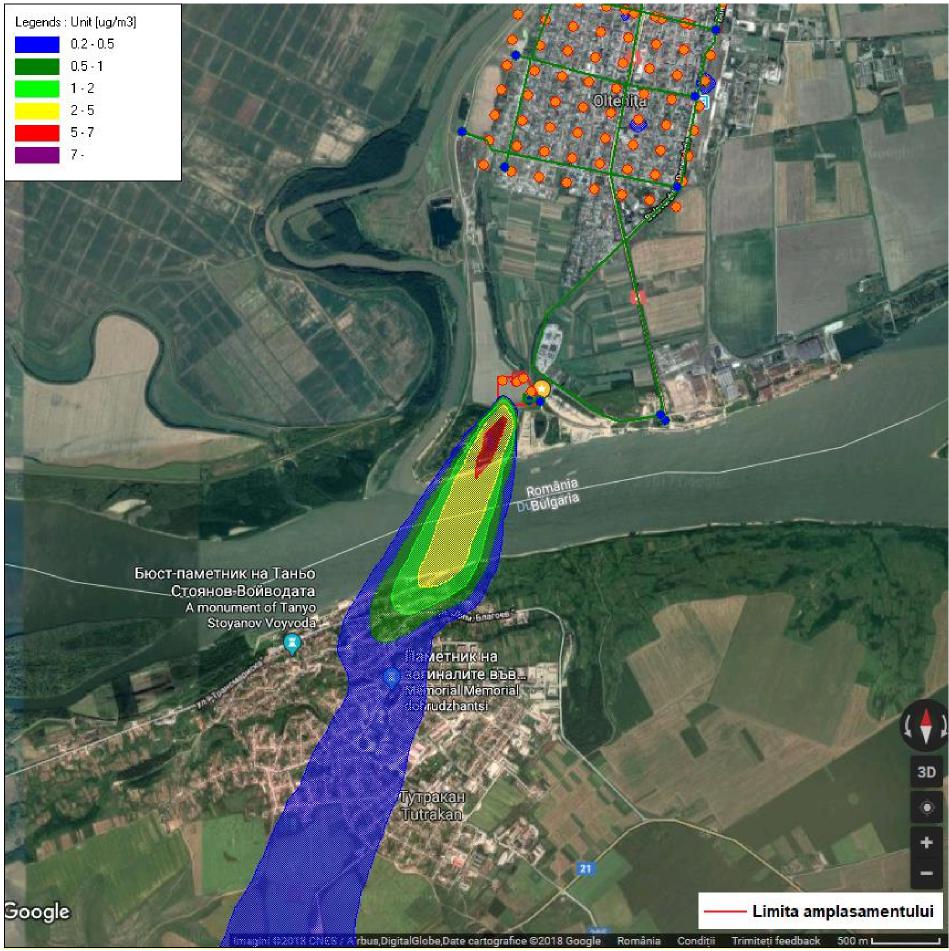


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

NNE wind direction, unstable atmospheric stratification (B),   
wind speed 1 m/s temperature 25°C (sunny day)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 14.83 µg/mc at the point x = 3600 m, y = 3800 m

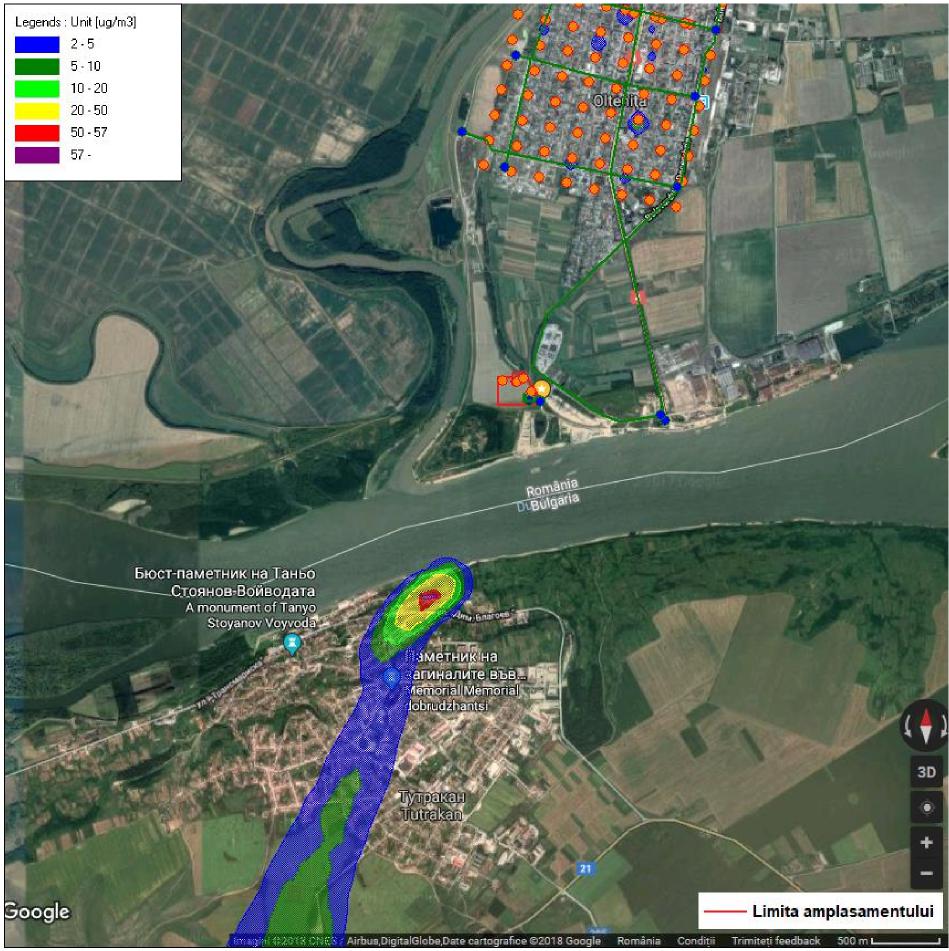


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

NNE wind direction, neutral atmospheric stratification (D),   
wind speed 10 m/s, temperature 15 °C (conditions of storm)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 7.17 µg/mc at the point x = 3600 m, y = 3800 m

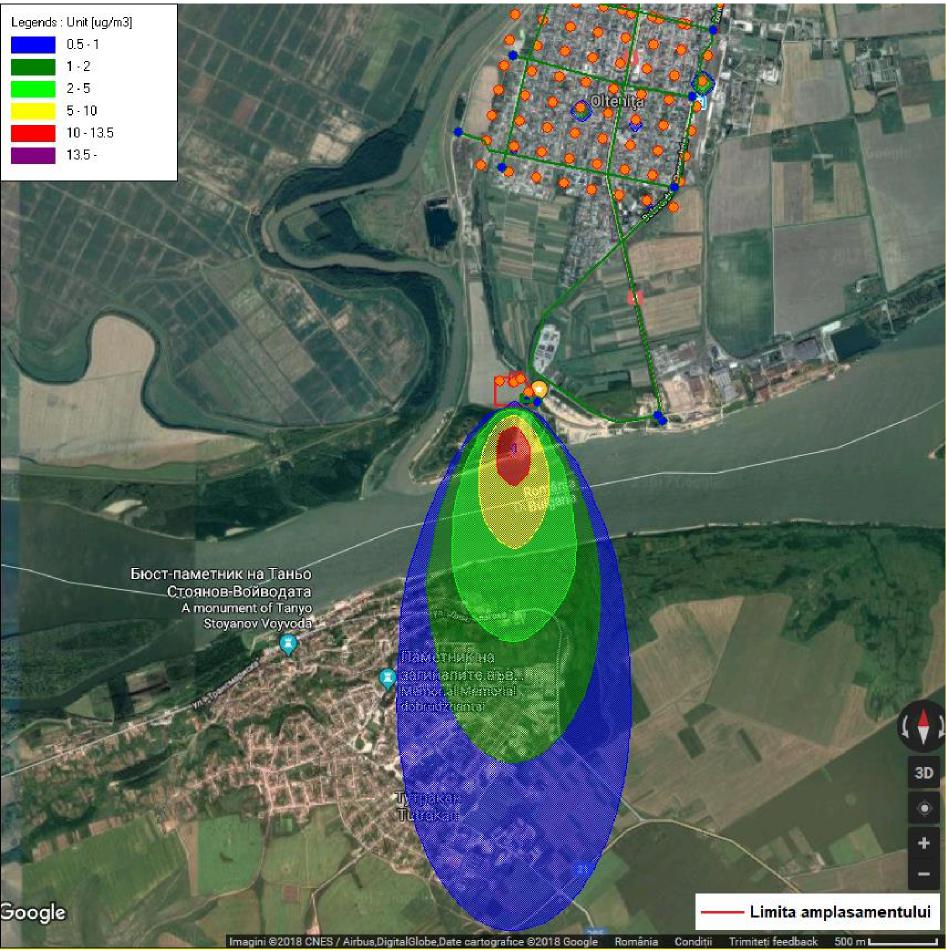


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

NNE wind direction, stable atmospheric stratification (F),   
wind speed 0.5 m/s, temperature 15 °C (during the night)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 59.56 µg/mc at the point x = 3200 m, y = 2600 m

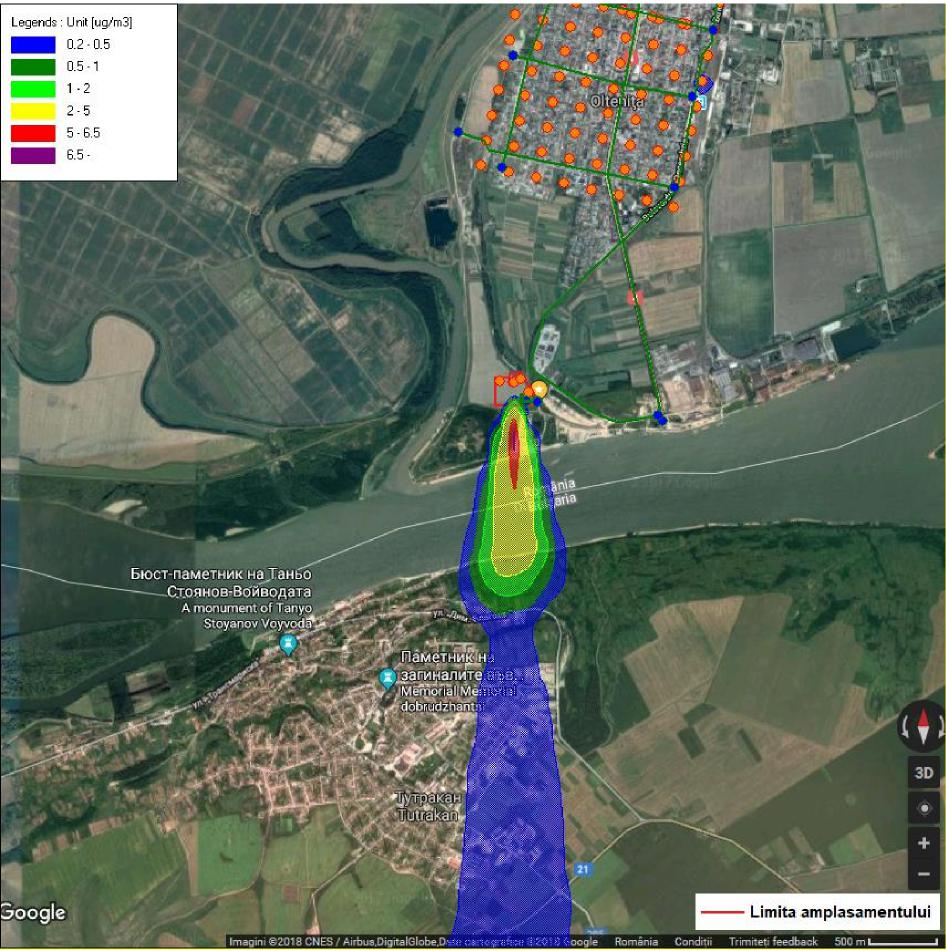


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

N wind direction, unstable atmospheric stratification (B),   
wind speed 1 m/s temperature 25°C (sunny day)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 13.90 µg/mc at the point x = 3800 m, y = 3700 m

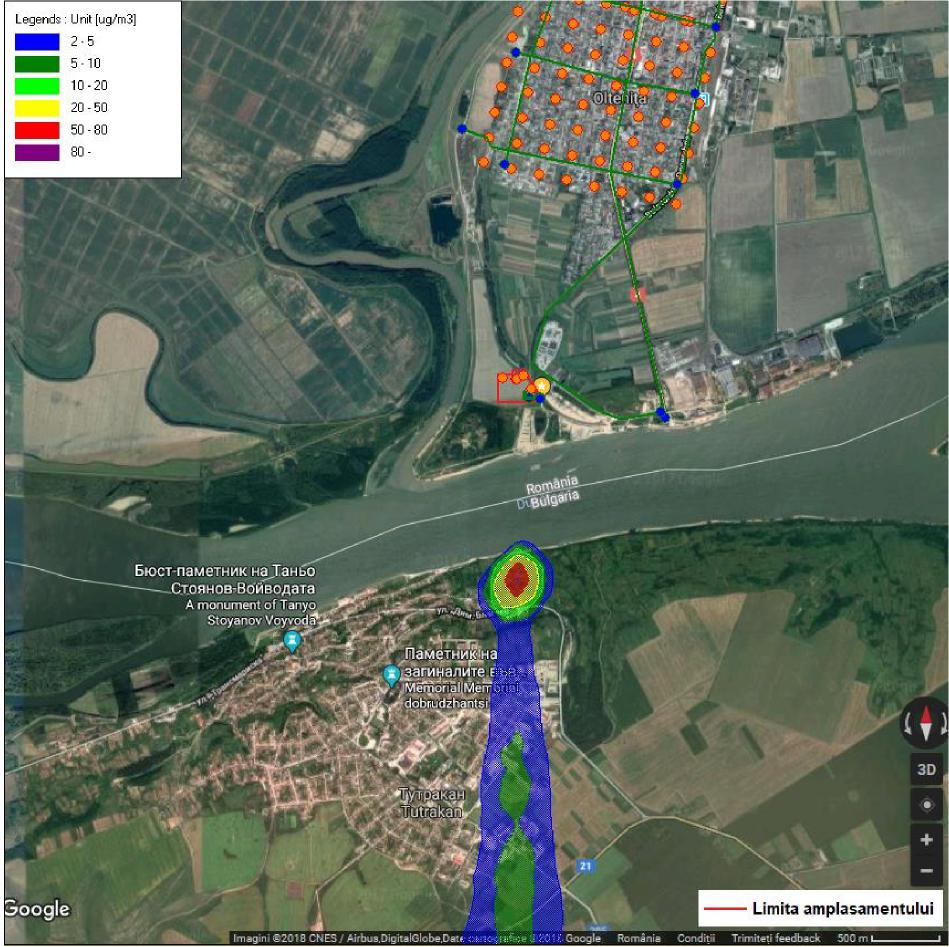


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

N wind direction, neutral atmospheric stratification (D),   
wind speed 10 m/s, temperature 15 °C (conditions of storm)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 6.84 µg/mc at the point x = 3800 m, y = 3800 m

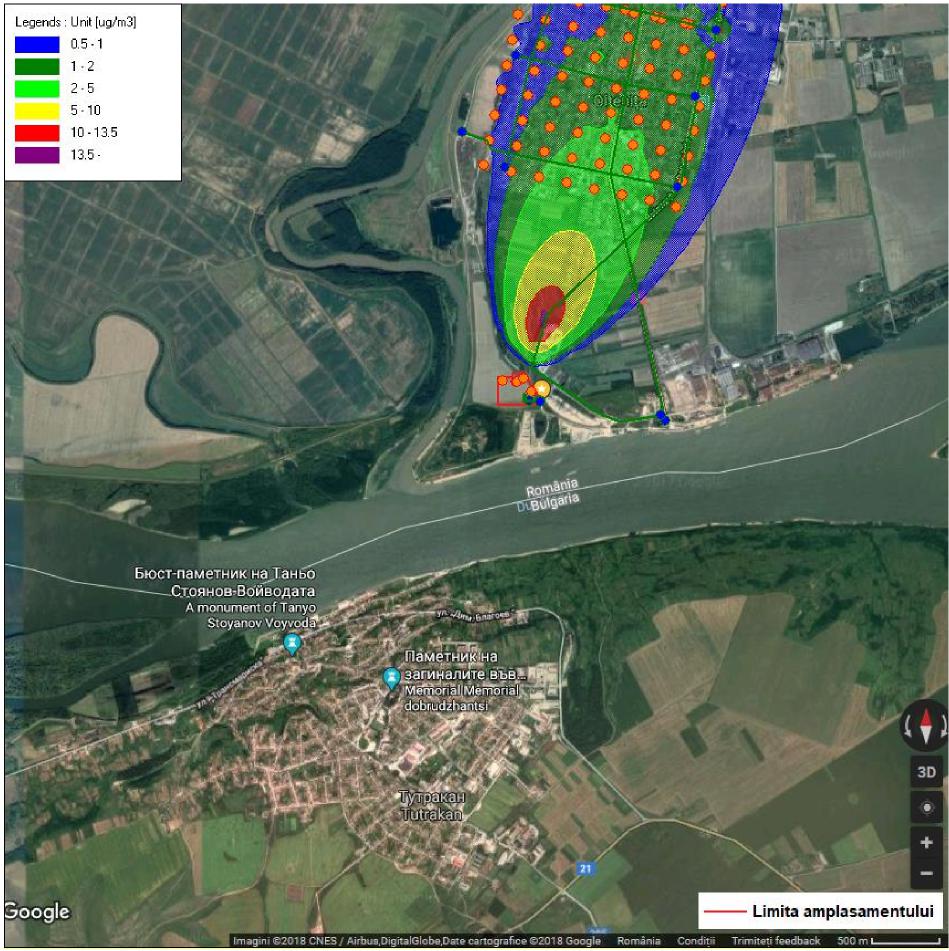


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

N wind direction, stable atmospheric stratification (F),   
wind speed 0.5 m/s, temperature 15 °C (during the night)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 83.88 µg/mc at the point x = 3800 m, y = 2700 m

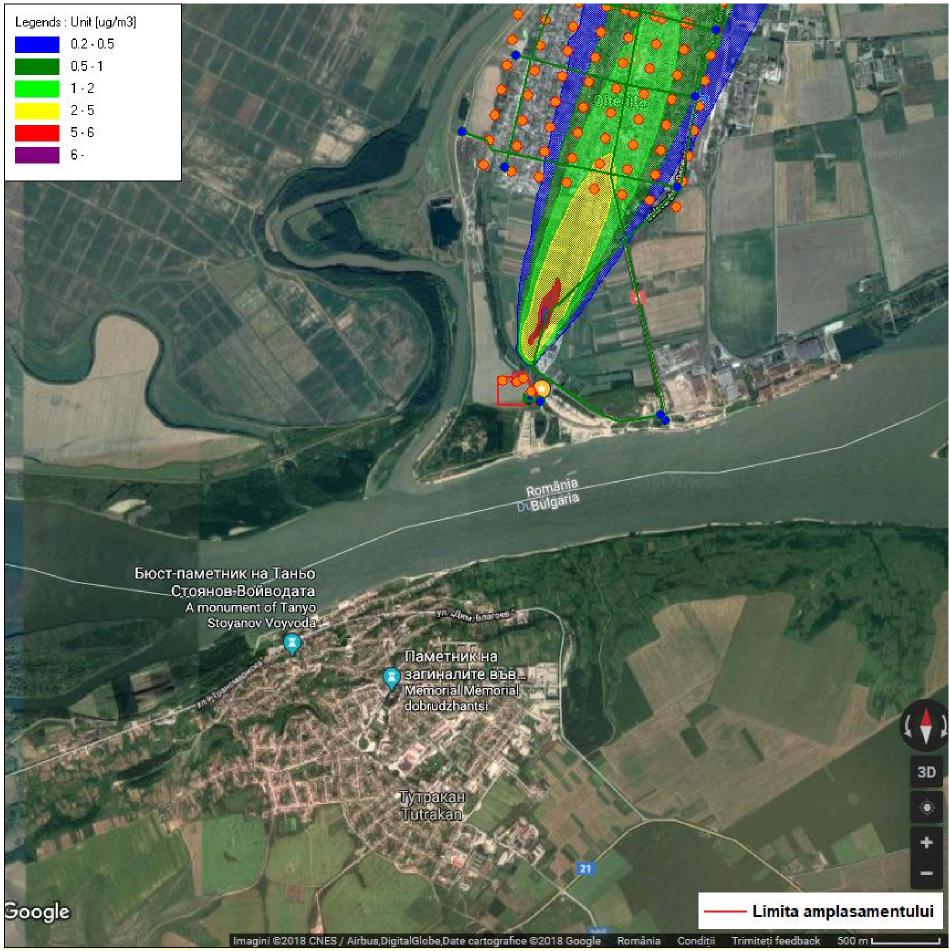


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

SSW wind direction, unstable atmospheric stratification (B),   
wind speed 1 m/s temperature 25°C (sunny day)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 13.94 µg/mc at the point x = 4000 m, y = 4600 m

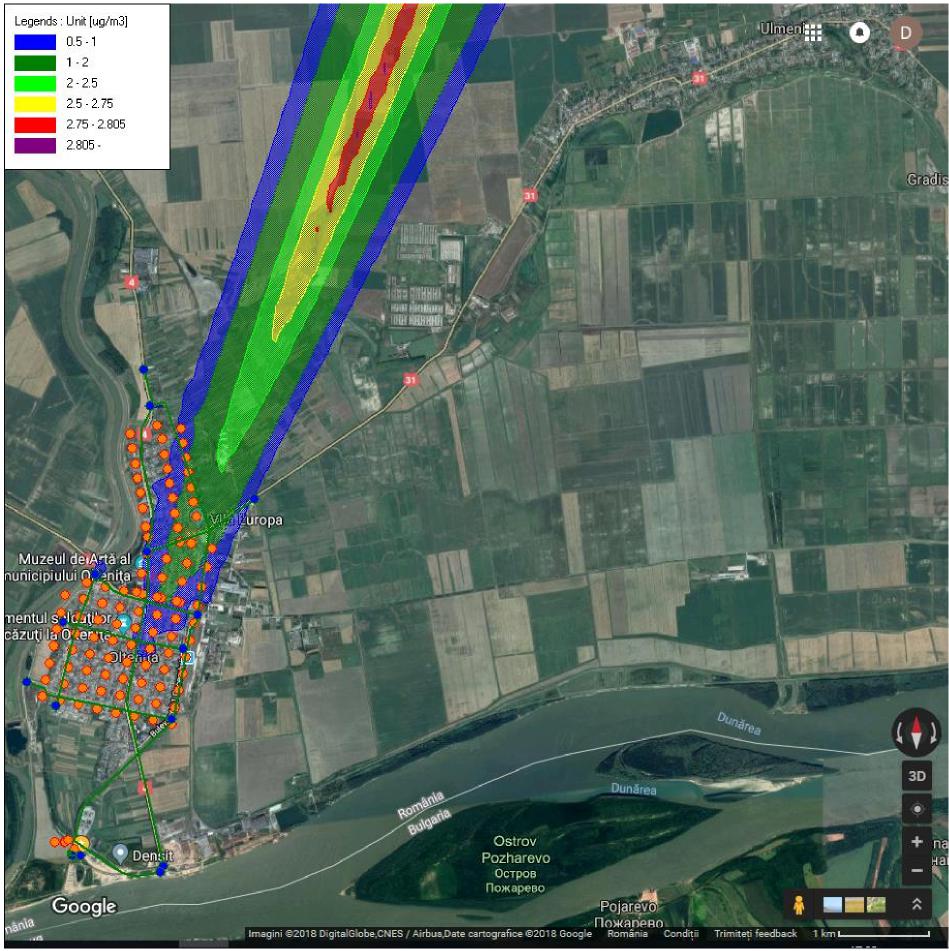


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

SSW wind direction, neutral atmospheric stratification (D),   
wind speed 10 m/s, temperature 15 °C (conditions of storm)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 6.95 µg/mc at the point x = 4000 m, y = 4700 m

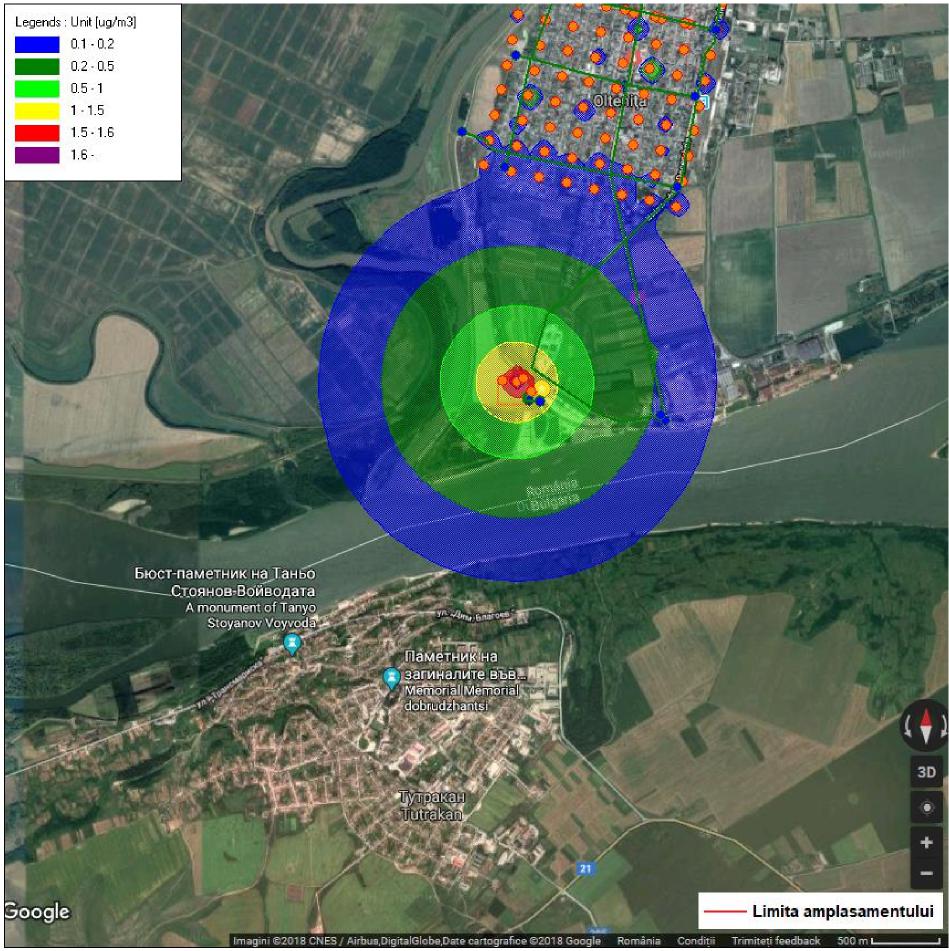


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

SSW wind direction, stable atmospheric stratification (F),   
wind speed 0.5 m/s, temperature 15 °C (during the night)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 2.81 µg/mc at the point x = 4200 m, y = 9750 m



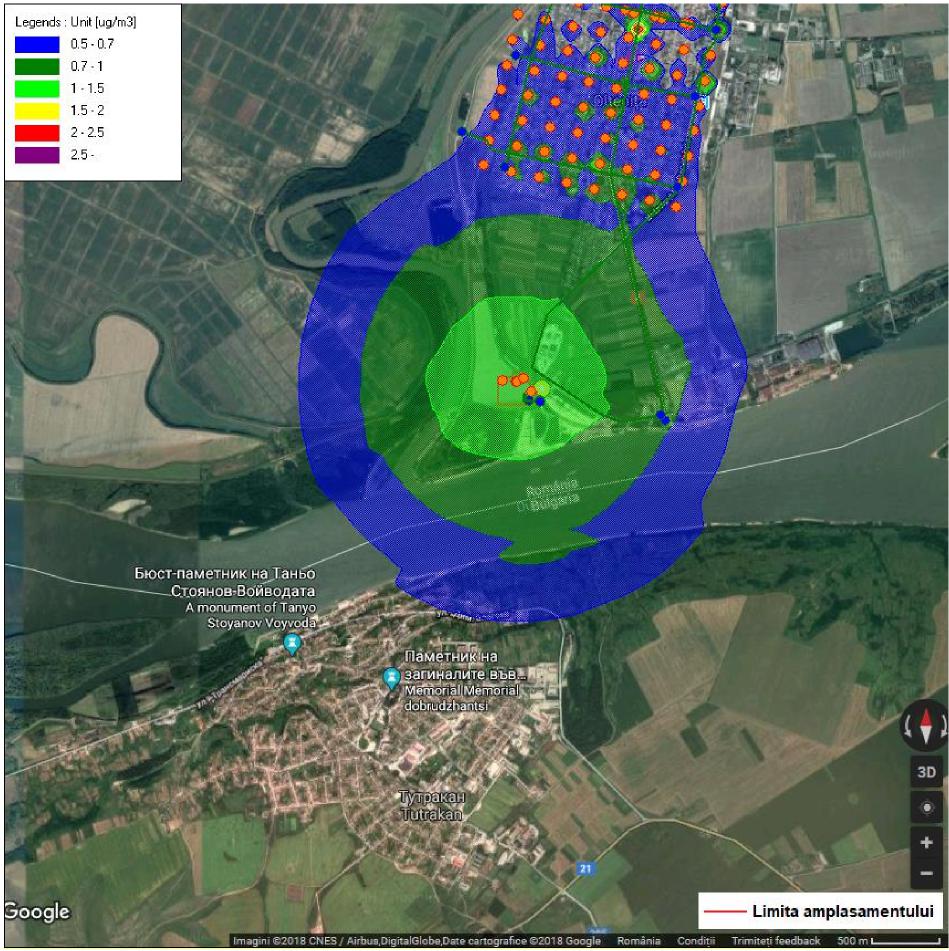
The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

Unstable atmospheric stratification (B),

Calm atmosphere, temperature 25 °C (sunny day)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 1.66 µg/mc at the point x = 3800 m, y = 4200 m



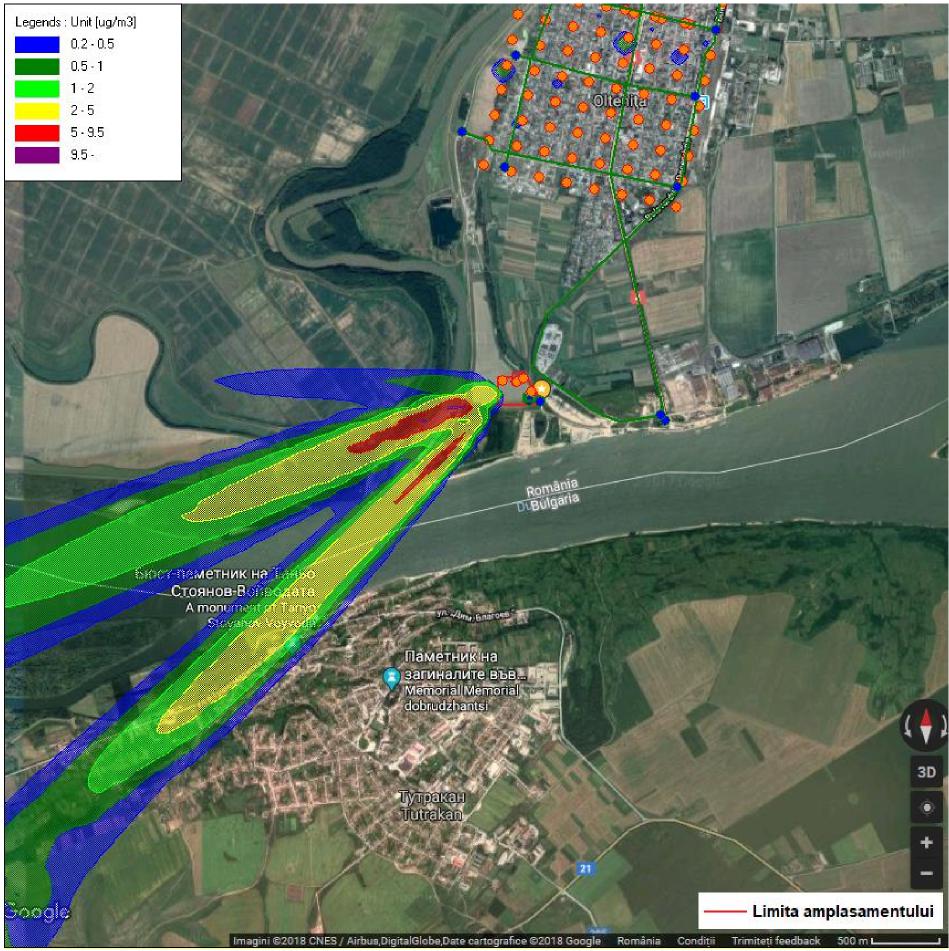
The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

Stable atmospheric stratification (F),

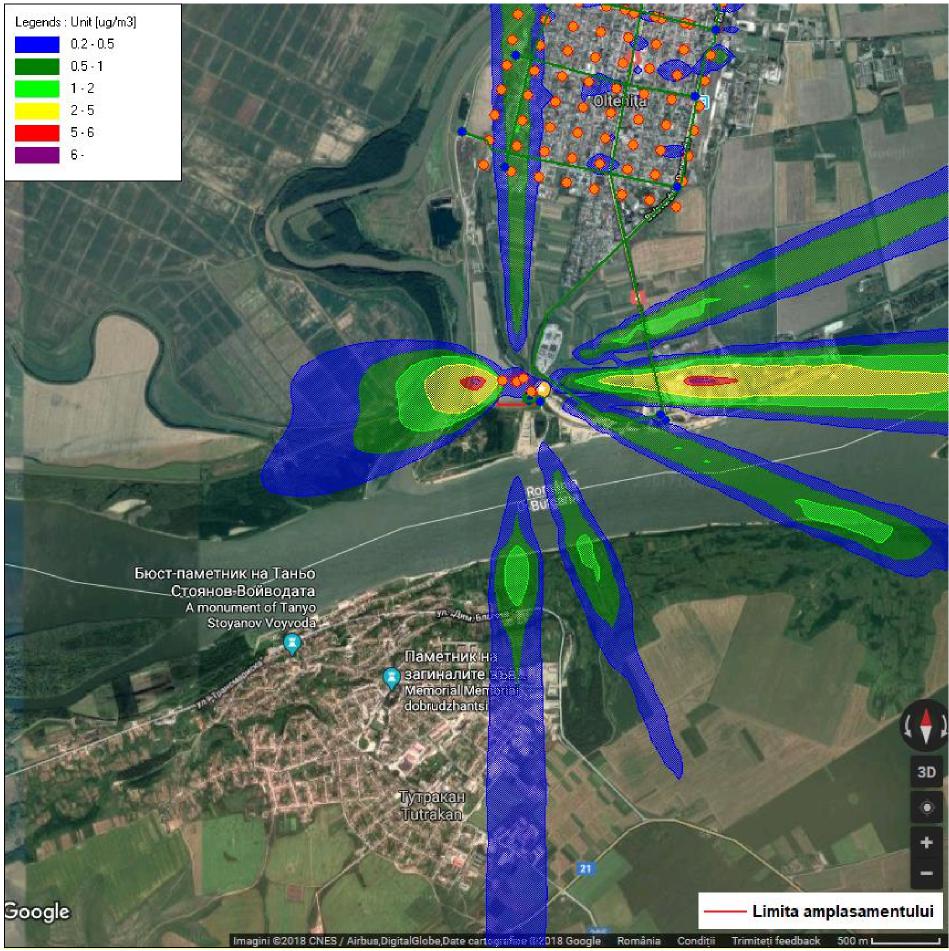
Calm atmosphere, temperature 15 °C (during the night)

LV = 350 μg/mc (Law 104/2011)

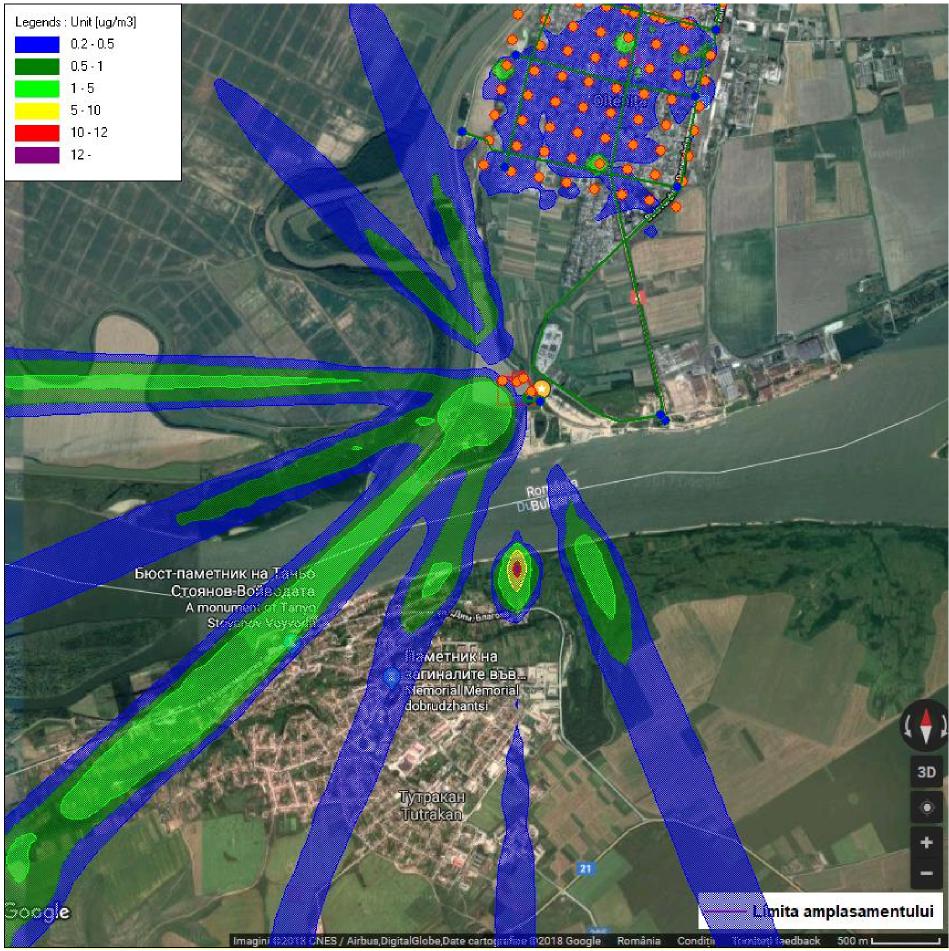
Maximum concentration 2.57 µg/mc at the point x = 4700 m, y = 6800 m



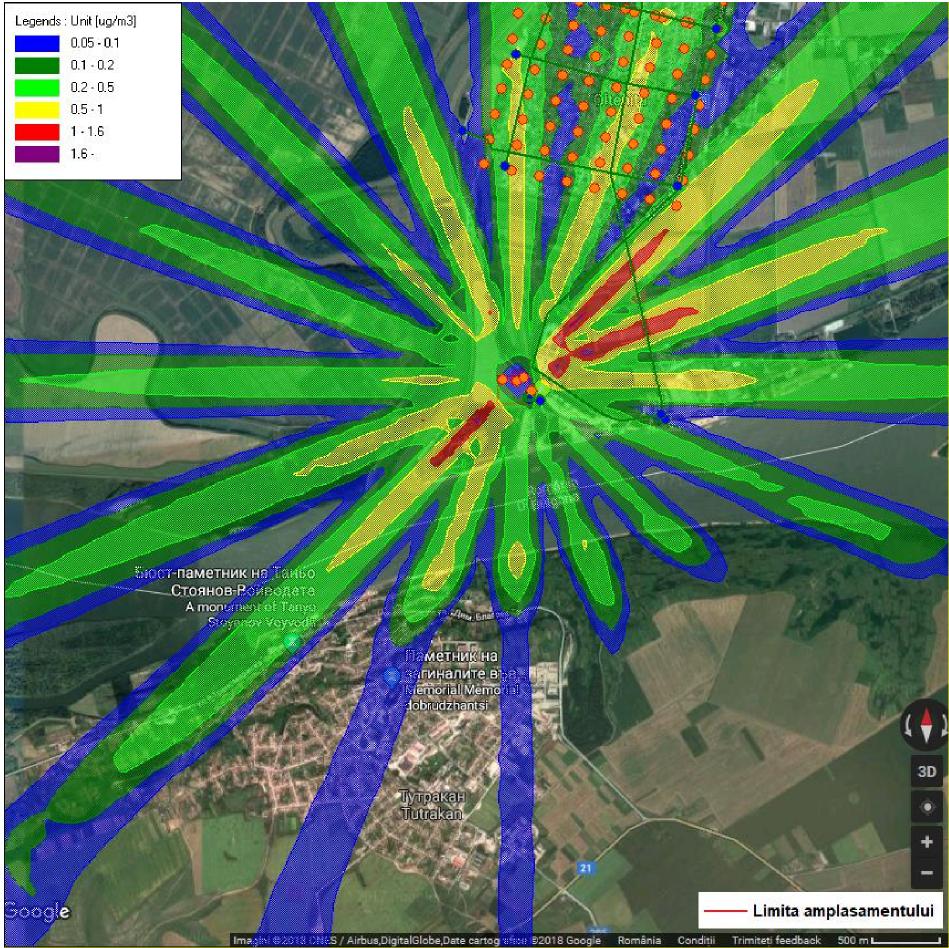
The distribution of SO 2 concentrations in the air   
Averaging time 24 hours   
Winter day (15/01/2018)   
LV = 125 μg/mc (Law 104/2011)   
Maximum concentration 10.07 µg/mc at the point x = 3300 m, y = 4000 m



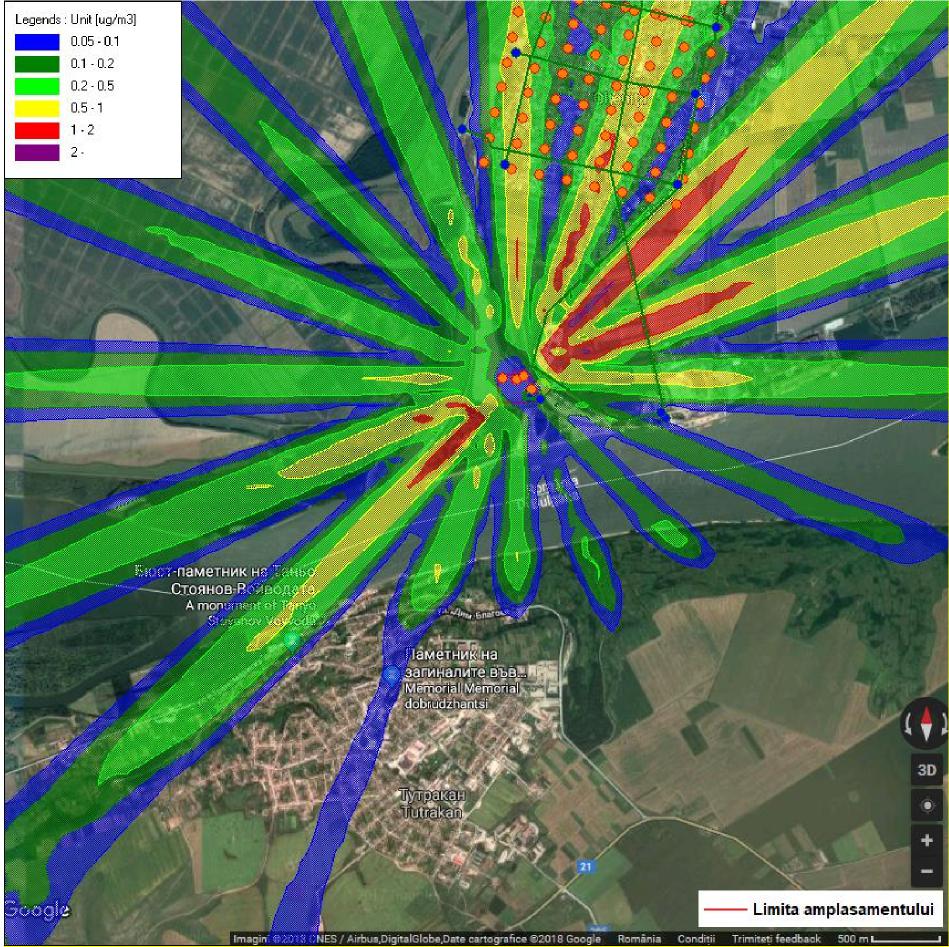
The distribution of SO 2 concentrations in the air   
Averaging time 24 hours   
Summer day (05/07/2017)   
LV = 125 μg/mc (Law 104/2011)   
Maximum concentration 6.58 µg/mc at the point x = 3500 m, y = 4200 m



The distribution of SO 2 concentrations in the air   
Averaging time 24 hours   
Autumn day (02/10/2017)   
LV = 125 μg/mc (Law 104/2011)   
Maximum concentration 13.21 µg/mc at the point x = 3800 m, y = 2800 m



The distribution of SO 2 concentrations in the air   
Averaging time 1 year (2017)   
The critical level for vegetation protection = 20 μg/mc (Law 104/2011)   
Maximum concentration 1.85 µg/mc at the point x = 3500 m, y = 3900 m



The distribution of SO 2 concentrations in the air   
Averaging during winter (01/10/2017 – 31/03/2018)   
The critical level for vegetation protection = 20 μg/mc (Law 104/2011)   
Maximum concentration 2.36 µg/mc at the point x = 4200 m, y = 4600 m