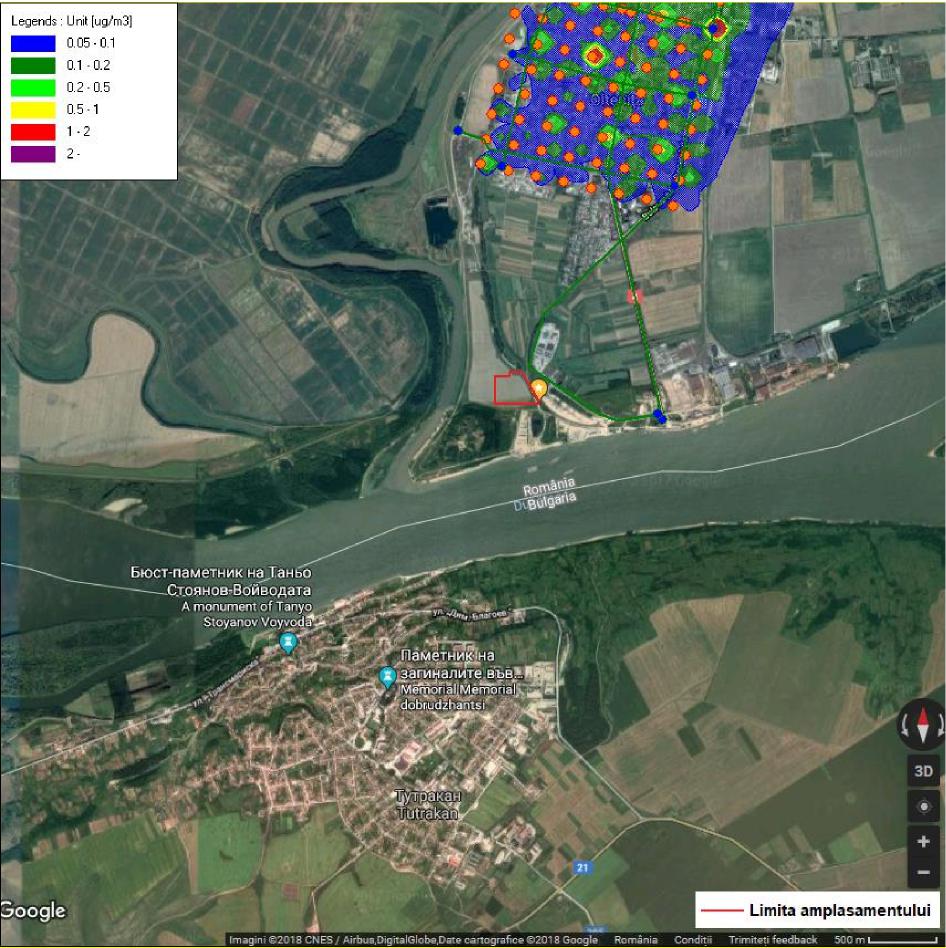
Annex no. 14 - The spatial distribution of SO 2concentration in the air for the analysed scenarios - external sources

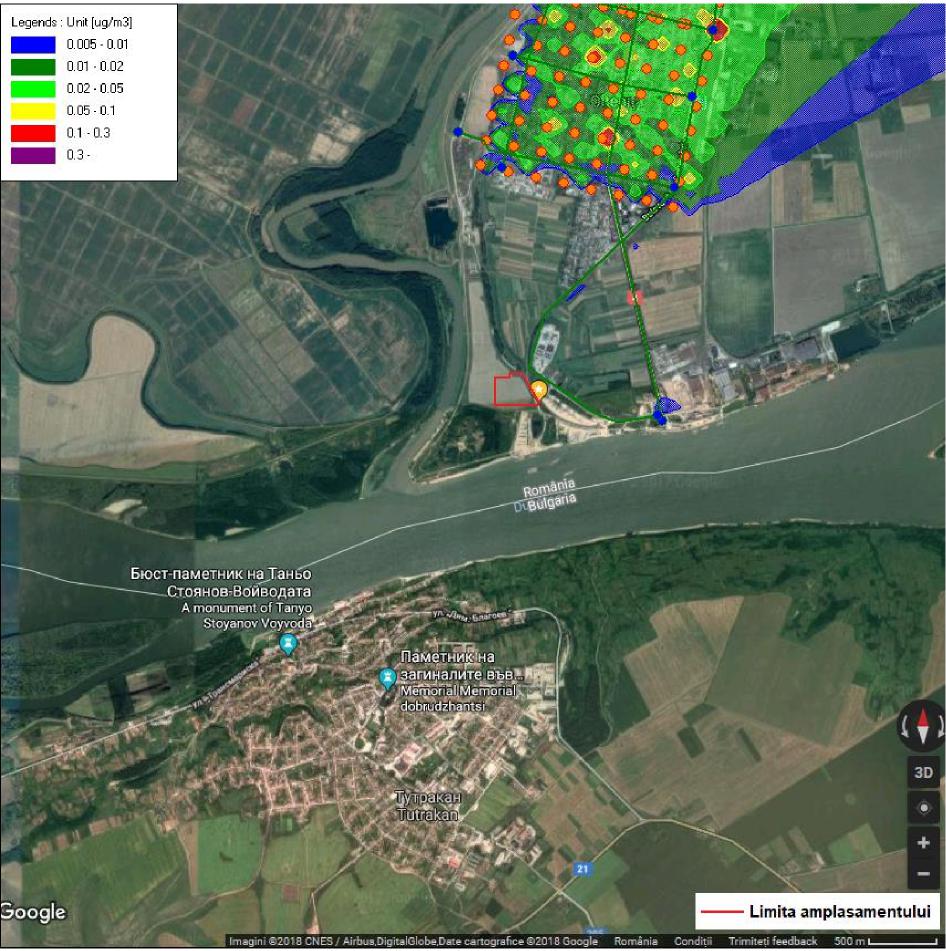


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

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 2.63 µg/mc at the point x = 5300 m, y = 6800 m

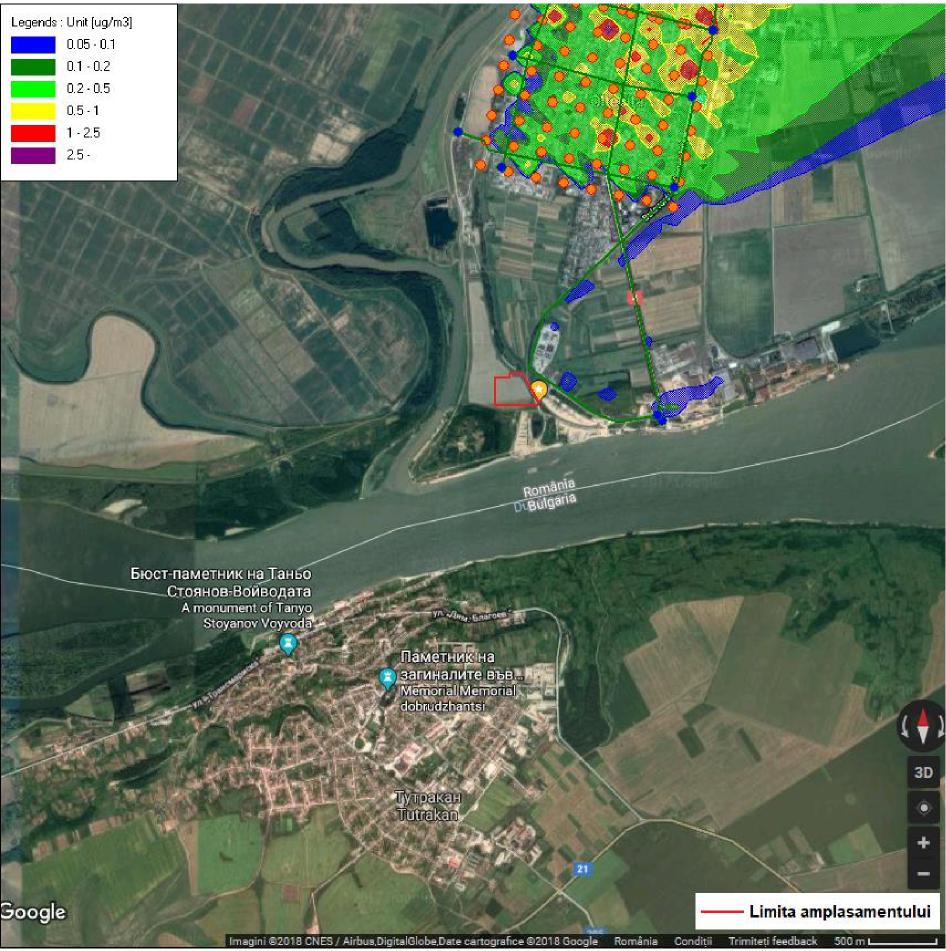


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

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 0.32 µg/mc at the point x = 5300 m, y = 6800 m

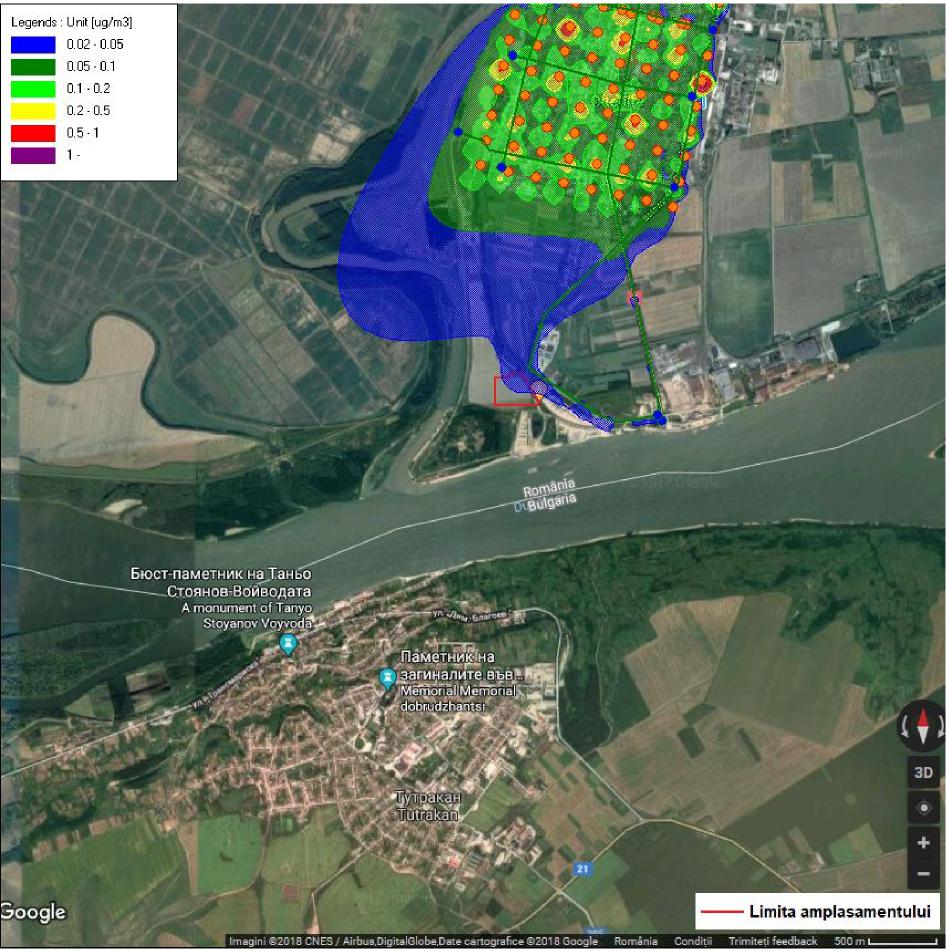


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

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 3.23 µg/mc at the point x = 4500 m, y = 6800 m

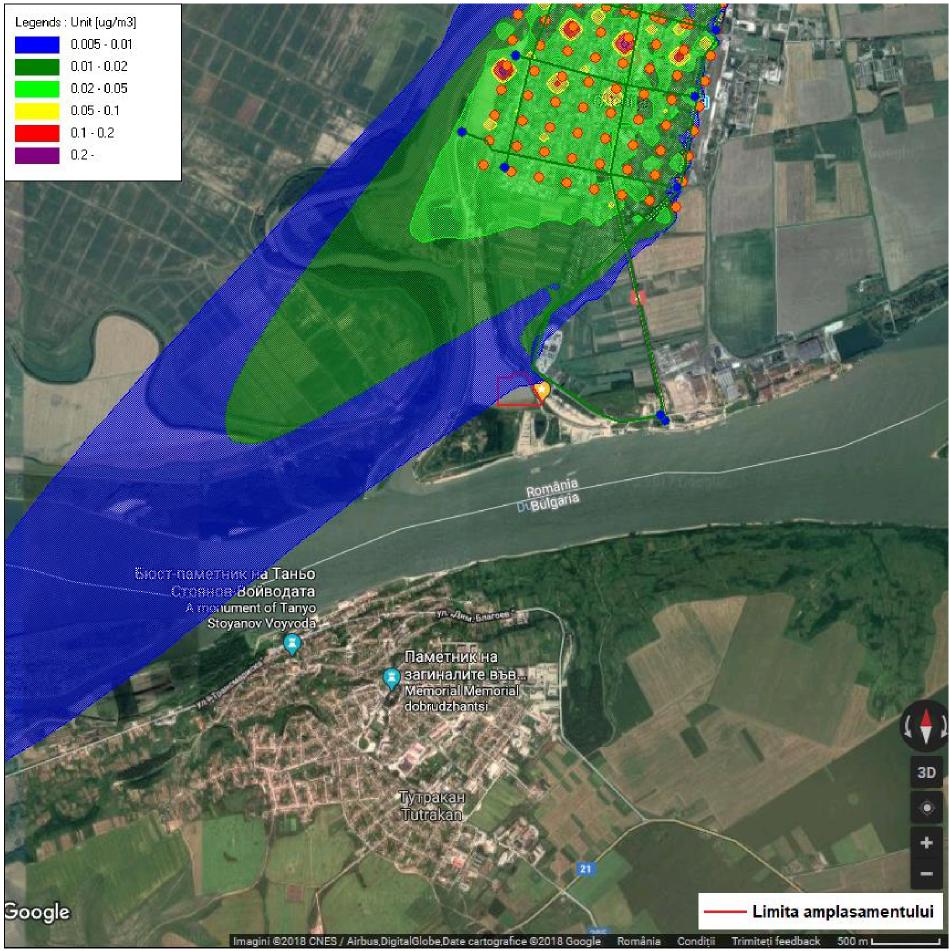


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

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 1.42 µg/mc at the point x = 5200 m, y = 6400 m

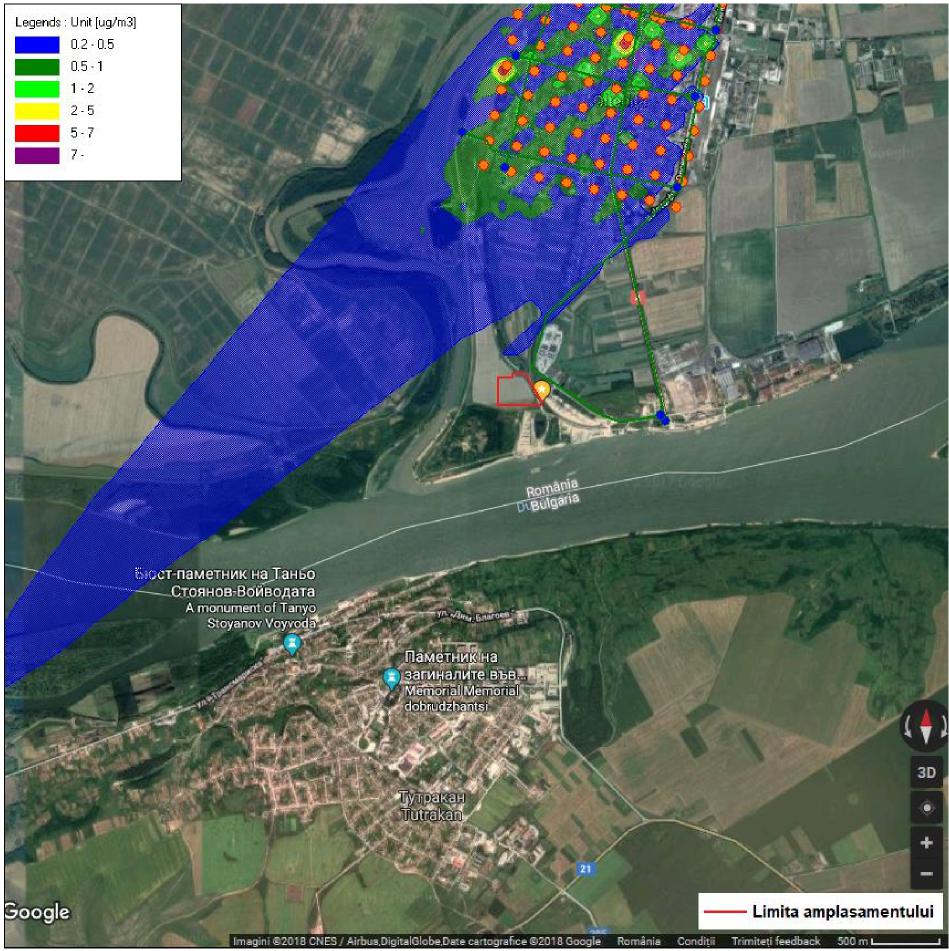


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

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 0.28 µg/mc at the point x = 4600 m, y = 6700 m

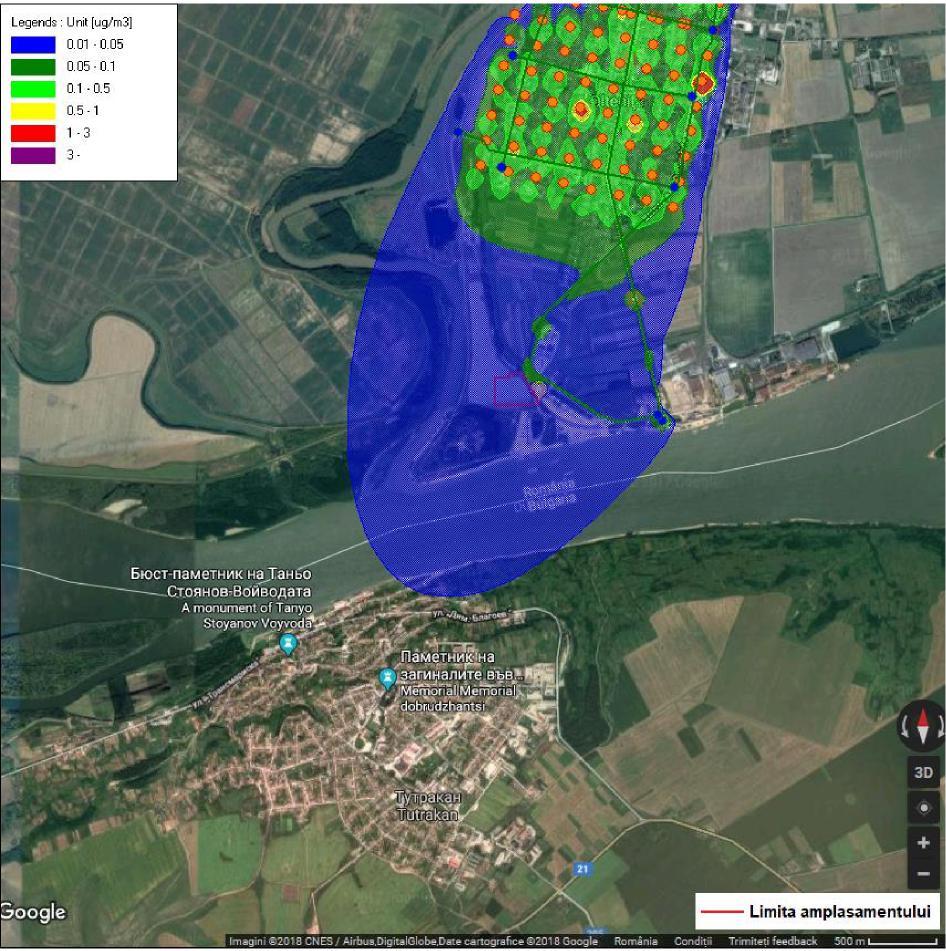


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

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 7.56 µg/mc at the point x = 3700 m, y = 6500 m

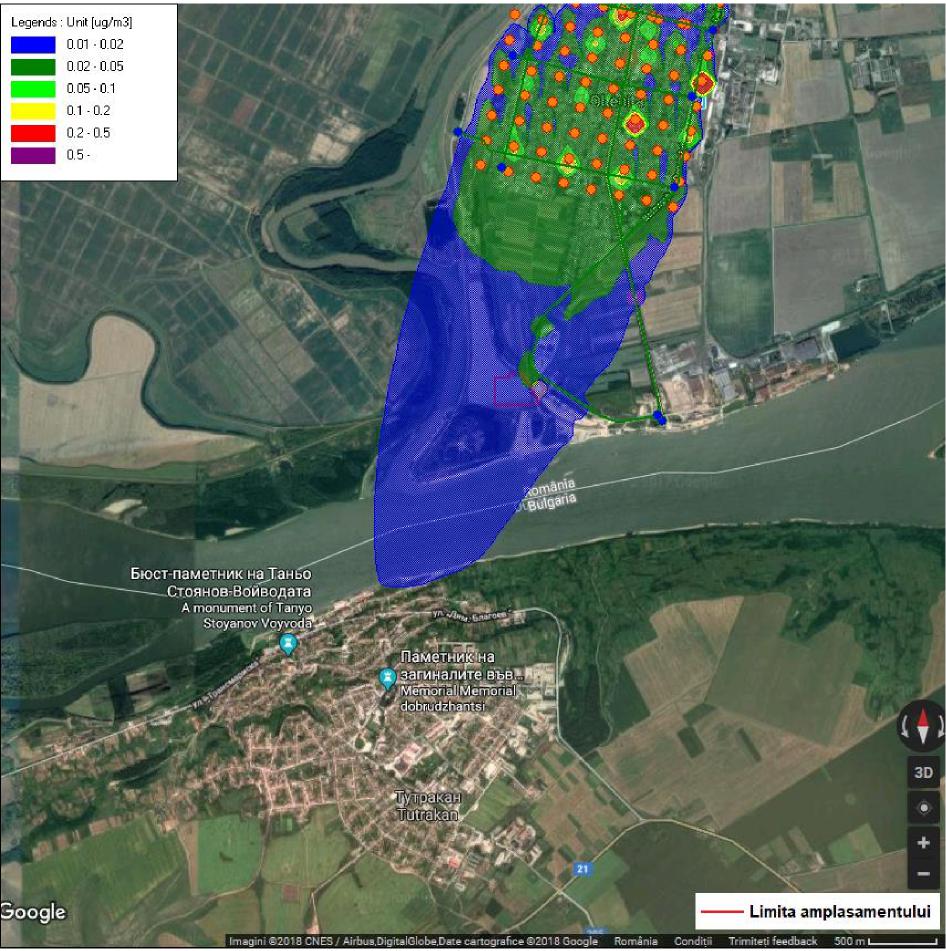


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

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 3.39 µg/mc at the point x = 5200 m, y = 6400 m

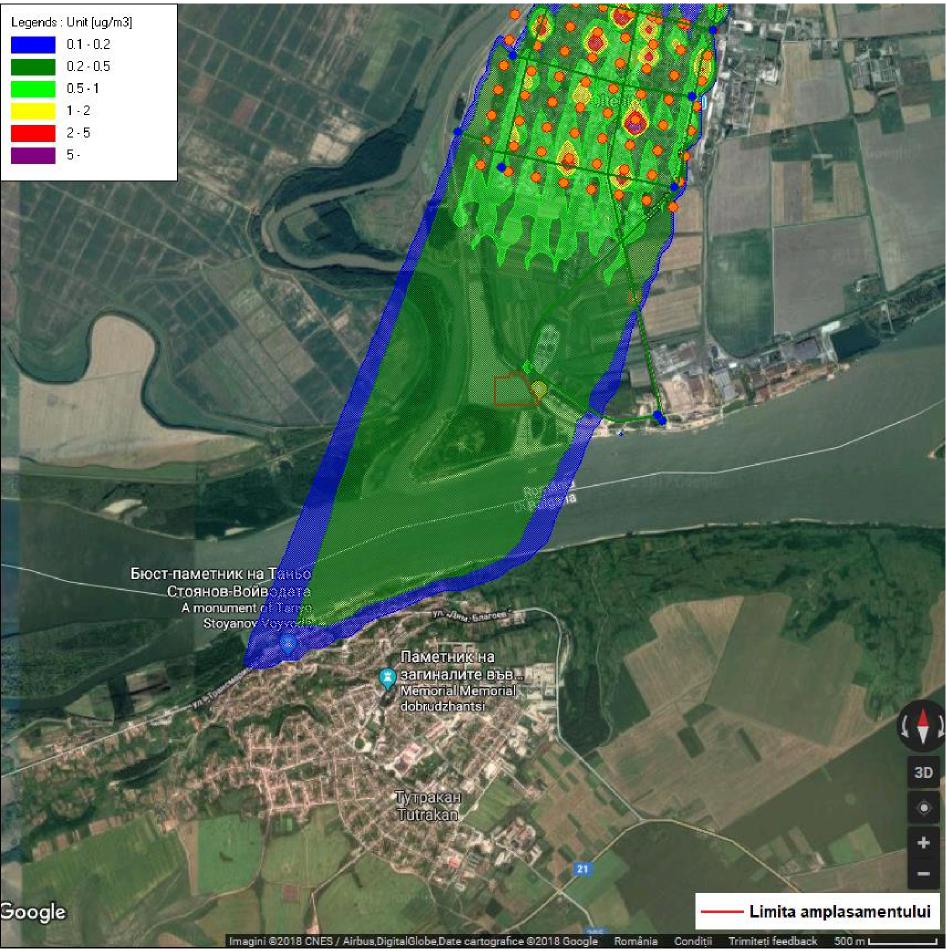


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

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 0.64 µg/mc at the point x = 5200 m, y = 6400 m

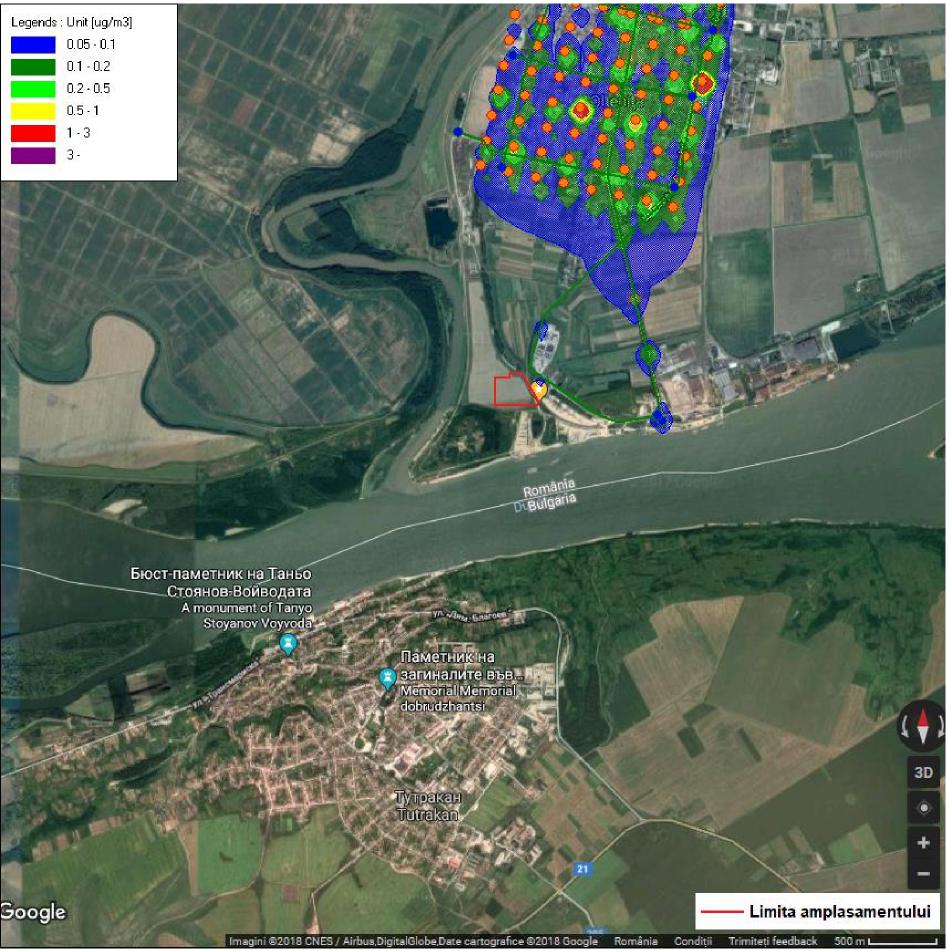


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

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 8.16 µg/mc at the point x = 4700 m, y = 6100 m

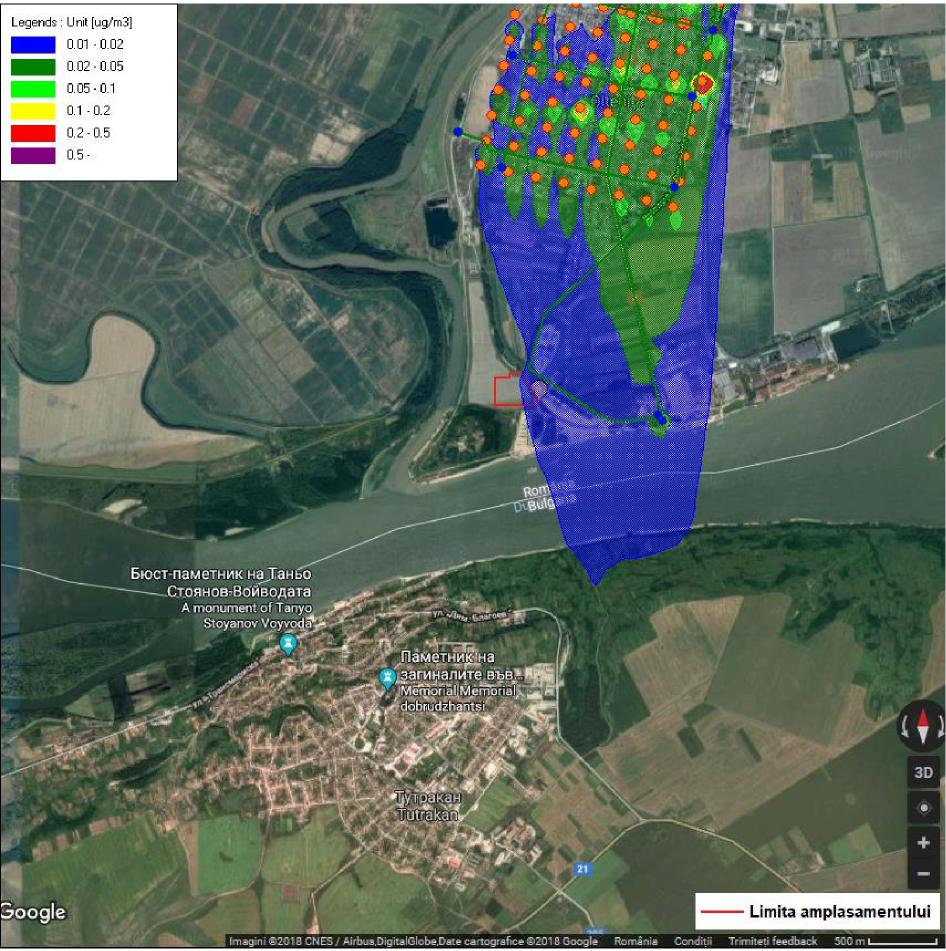


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

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 3.34 µg/mc at the point x = 5200 m, y = 6400 m

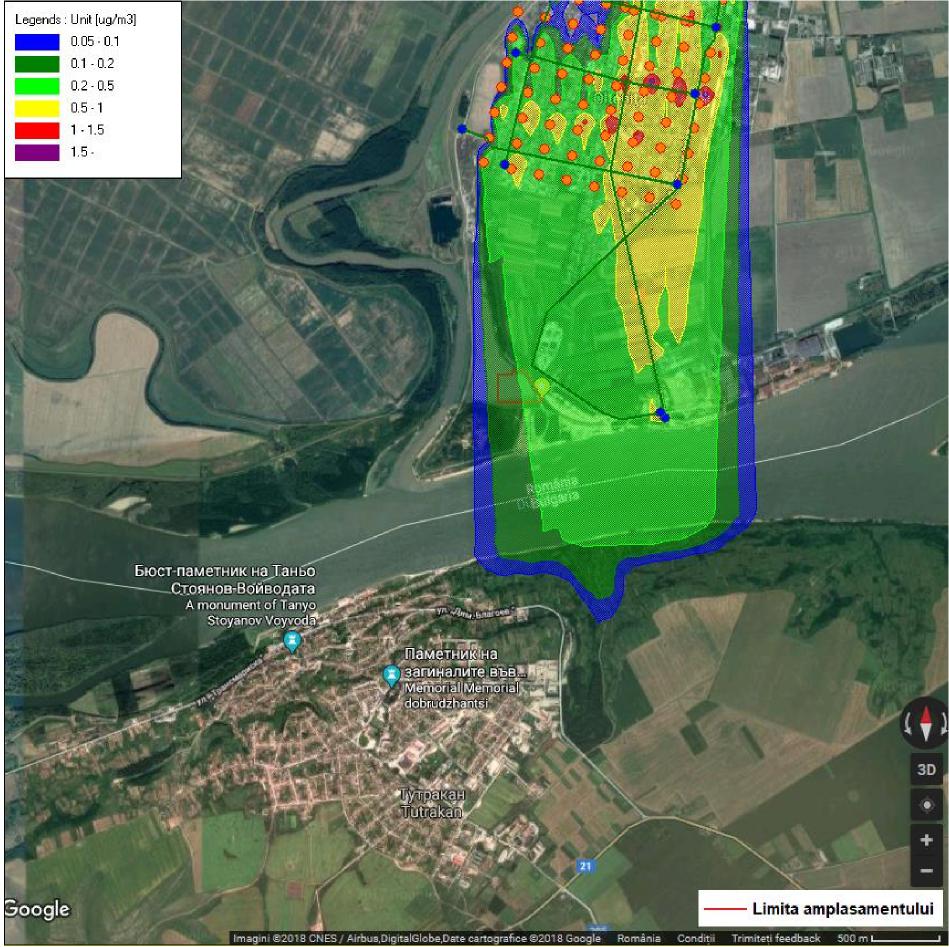


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

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 0.54 µg/mc at the point x = 5200 m, y = 6400 m

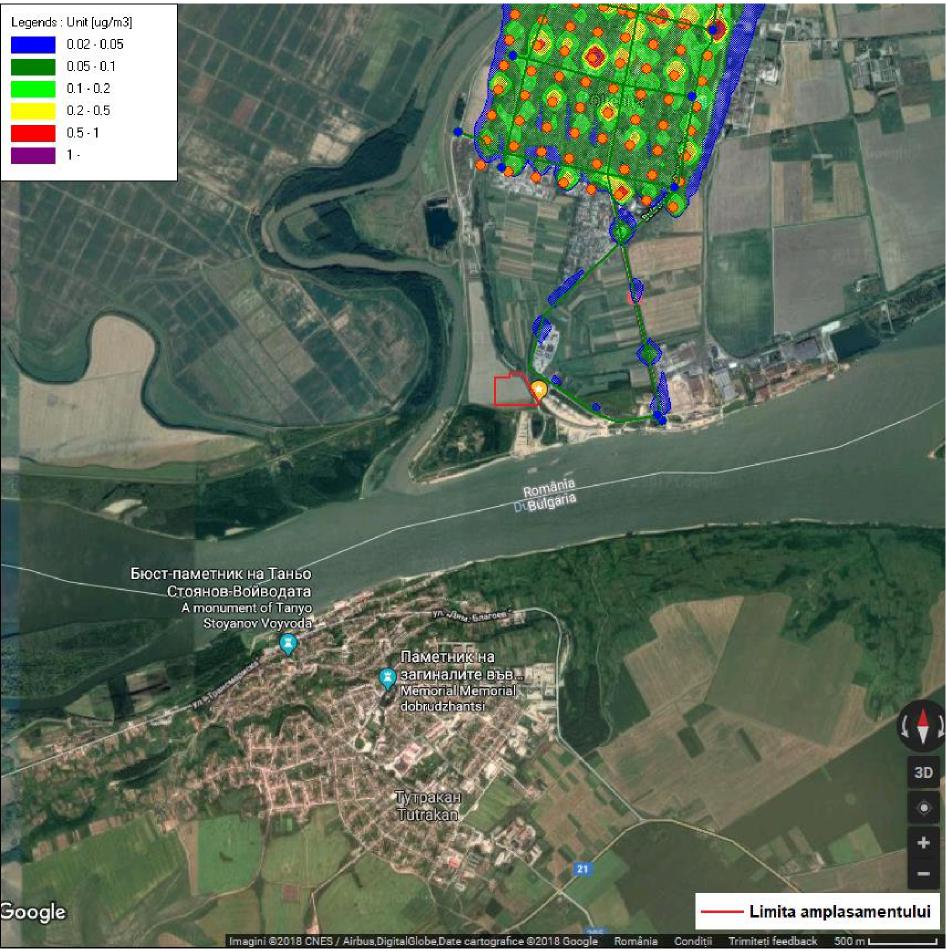


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

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 1.70 µg/mc at the point x = 5200 m, y = 6300 m

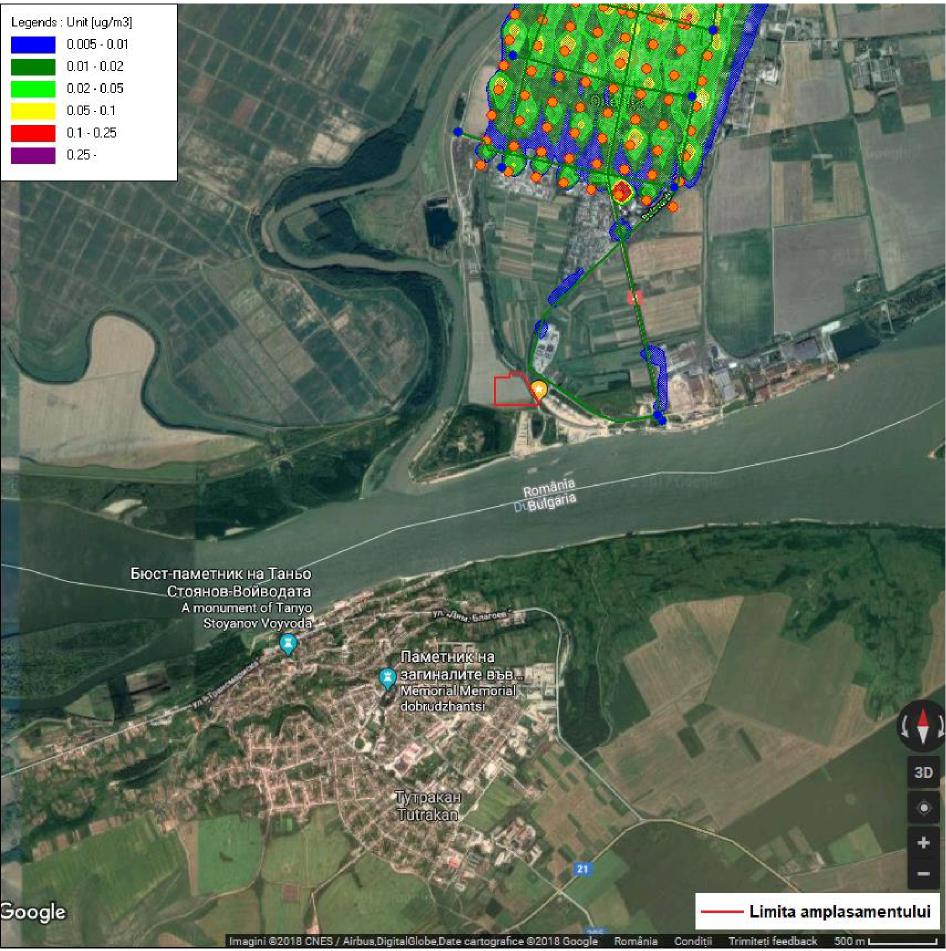


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

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 1.41 µg/mc at the point x = 4400 m, y = 6600 m

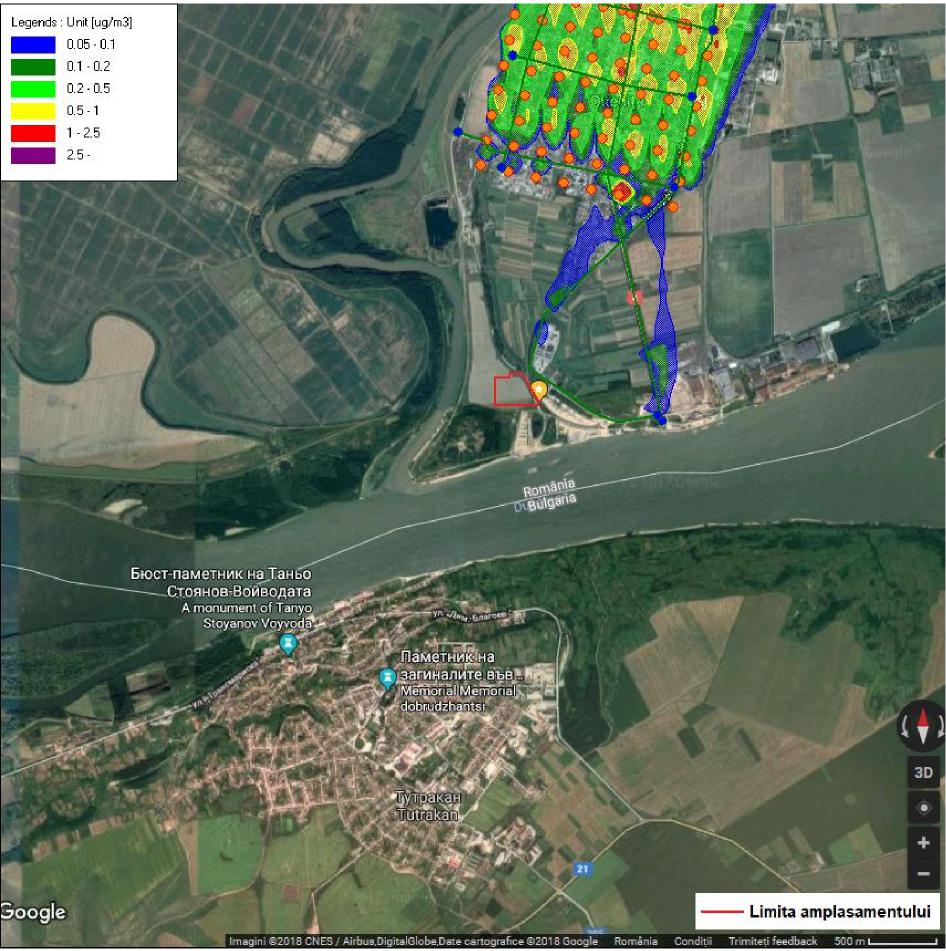


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

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 0.29 µg/mc at the point x = 4600 m, y = 5600 m

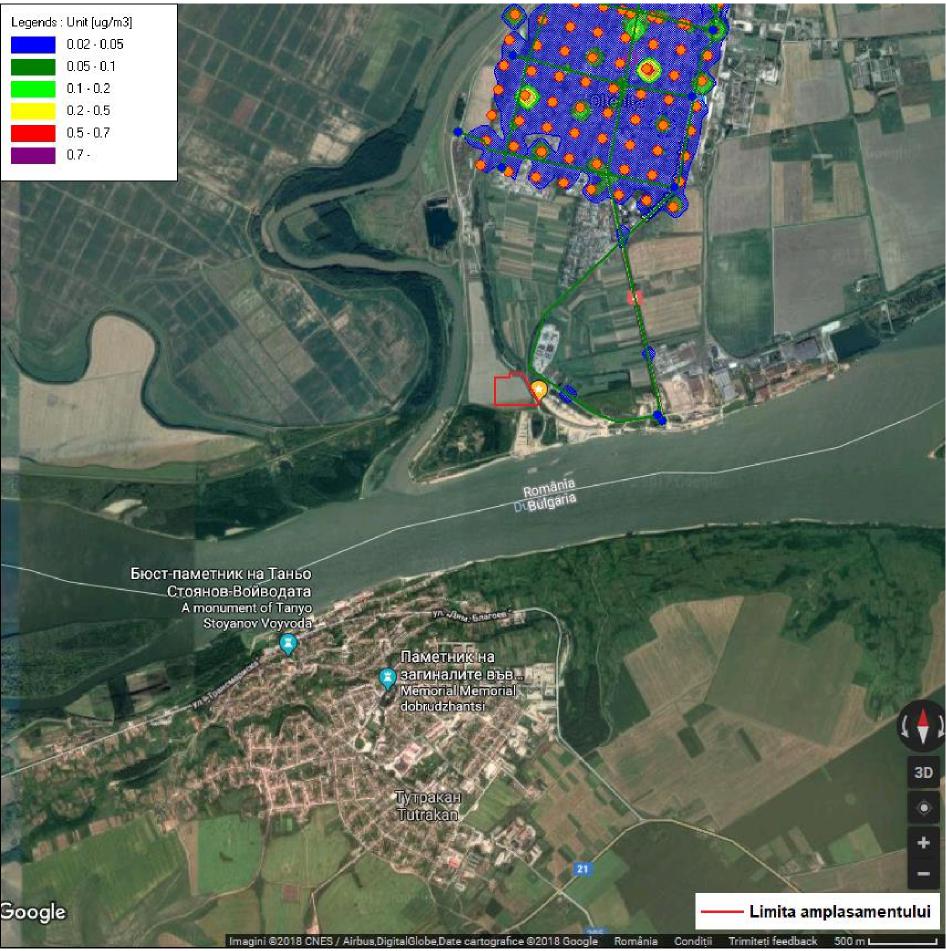


The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

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 2.95 µg/mc at the point x = 4600 m, y = 5600 m



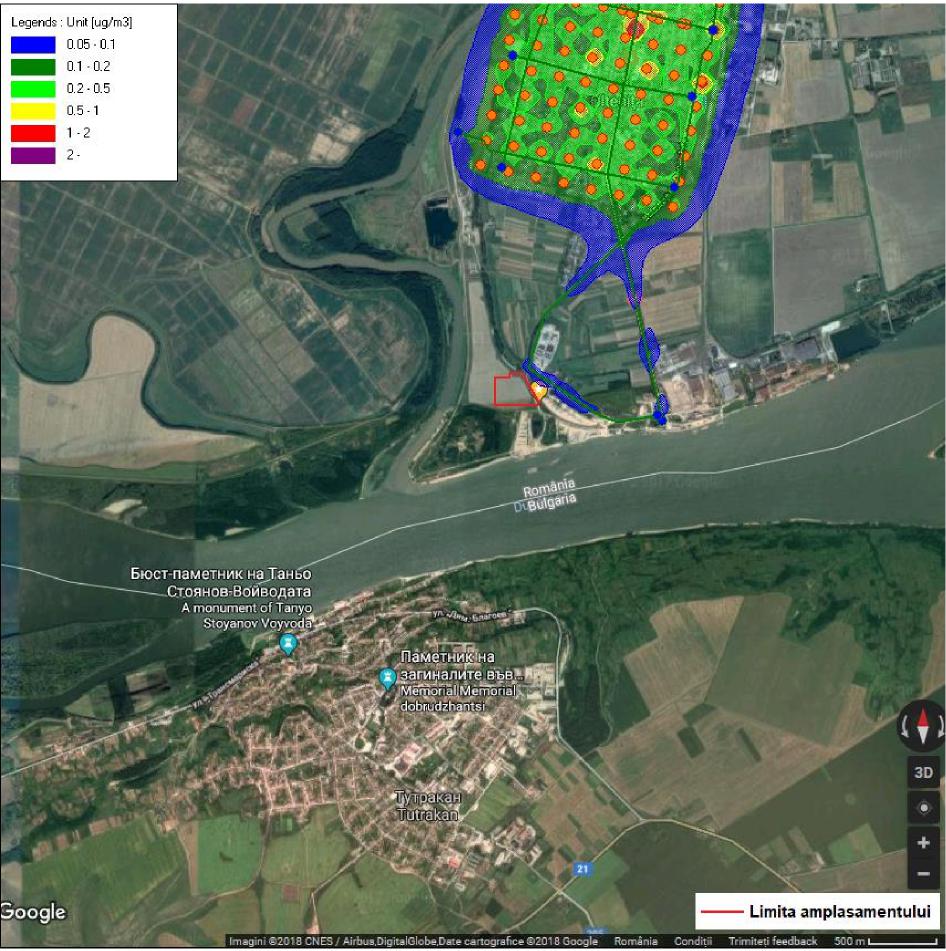
The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

Unstable atmospheric stratification (B),

Calm atmosphere, temperature 25 °C (sunny day)

LV = 350 μg/mc (Law 104/2011)

Maximum concentration 0.78 µg/mc at the point x = 4800 m, y = 6500 m



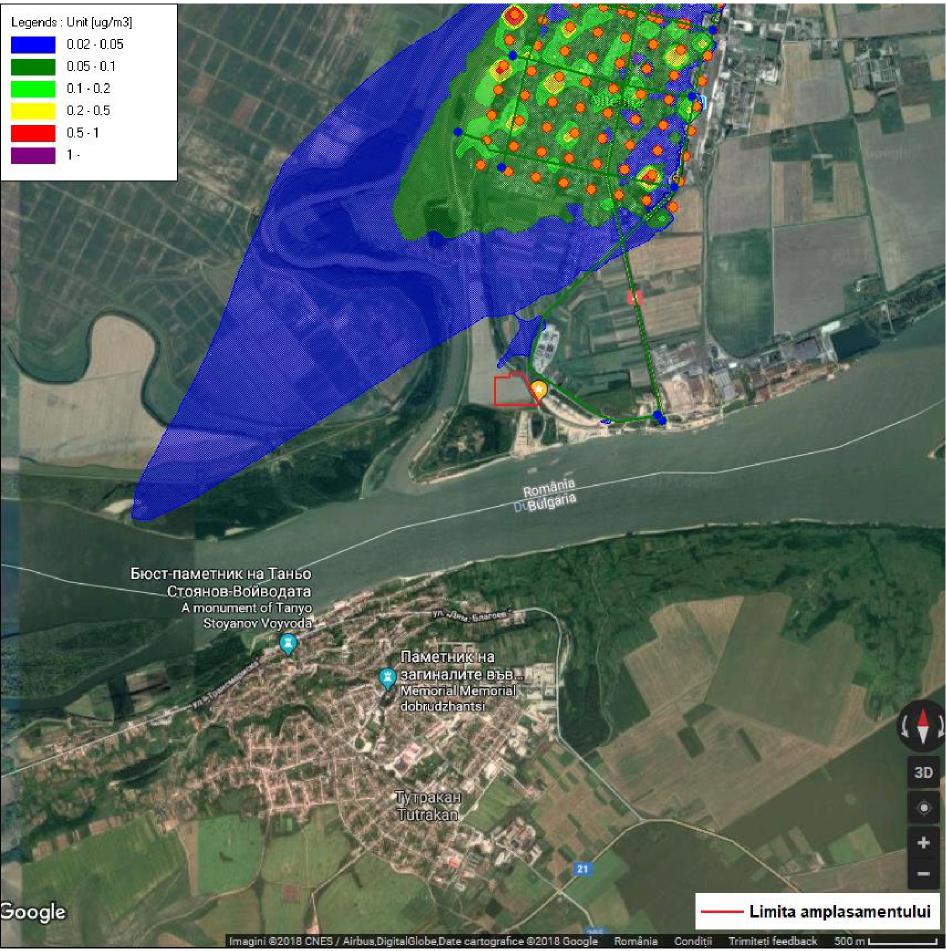
The distribution of SO 2 concentrations in the air   
Averaging time 60 min.

Stable atmospheric stratification (F),

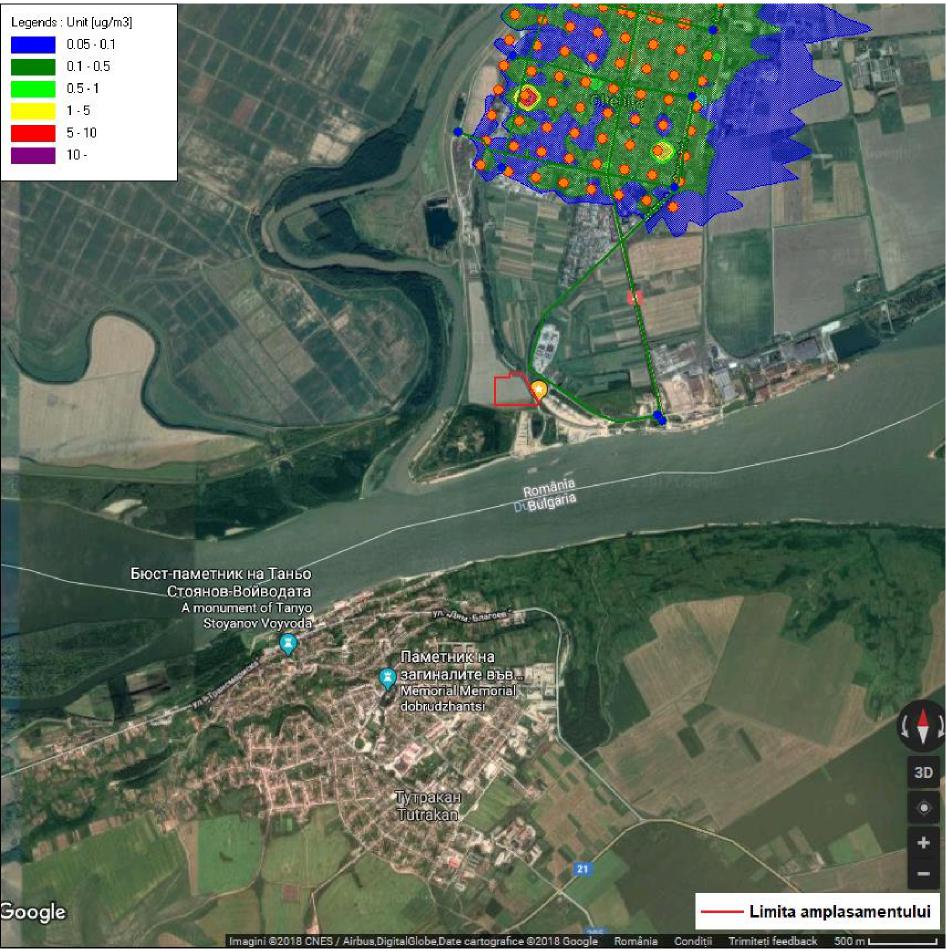
Calm atmosphere, temperature 15 °C (during the night)

LV = 350 μg/mc (Law 104/2011)

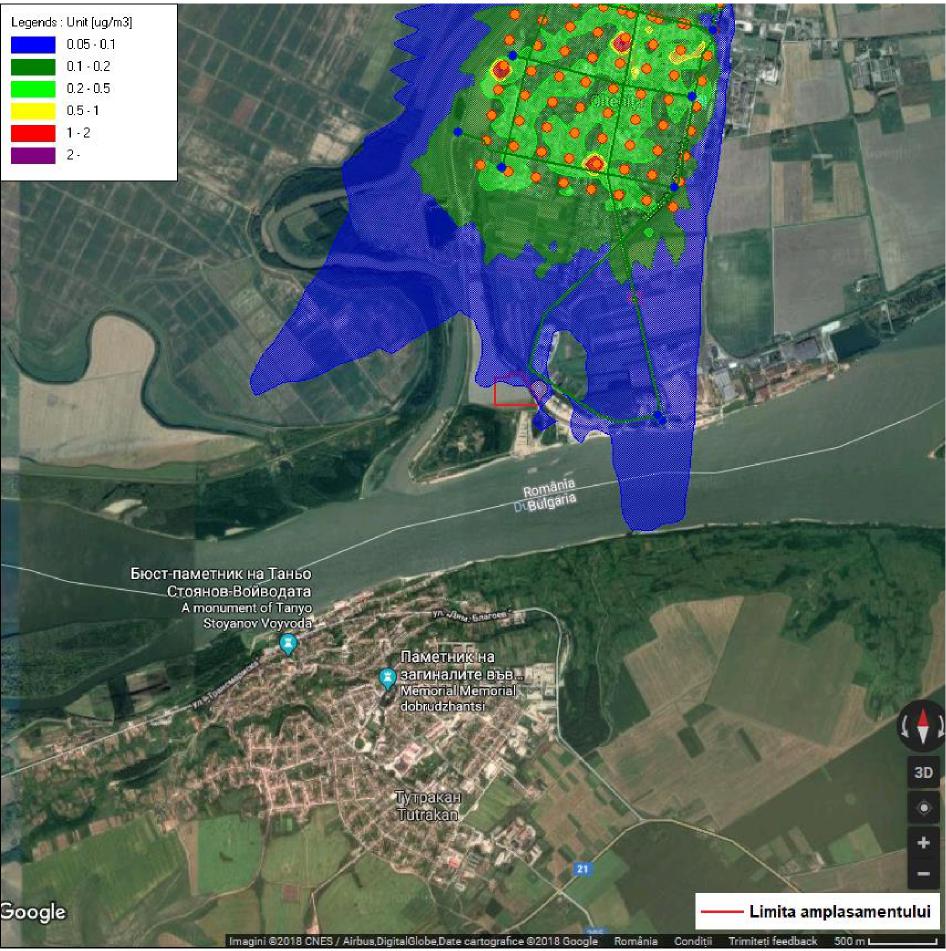
Maximum concentration 2.33 µg/mc at the point x = 4700 m, y = 6800 m



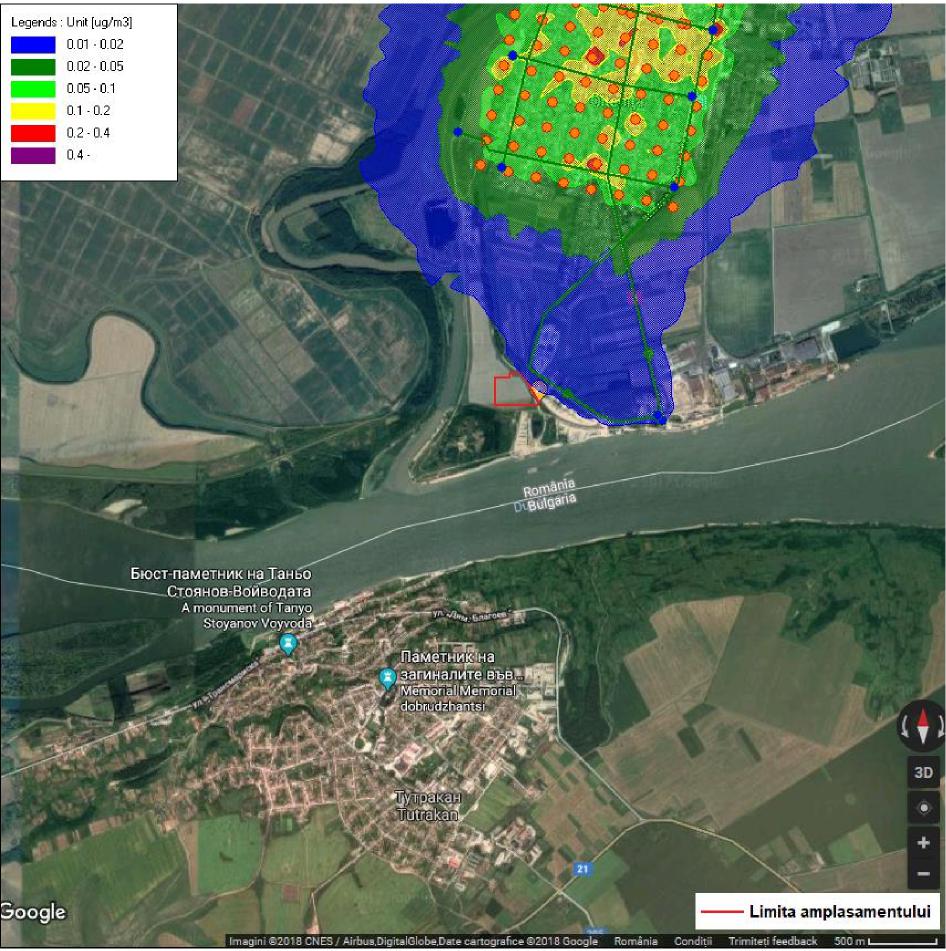
The distribution of SO 2 concentrations in the air   
Averaging time 24 hours   
Winter day (15/01/2018)   
LV = 125 μg/mc (Law 104/2011)   
Maximum concentration 1.35 µg/mc at the point x = 3800 m, y = 6900 m



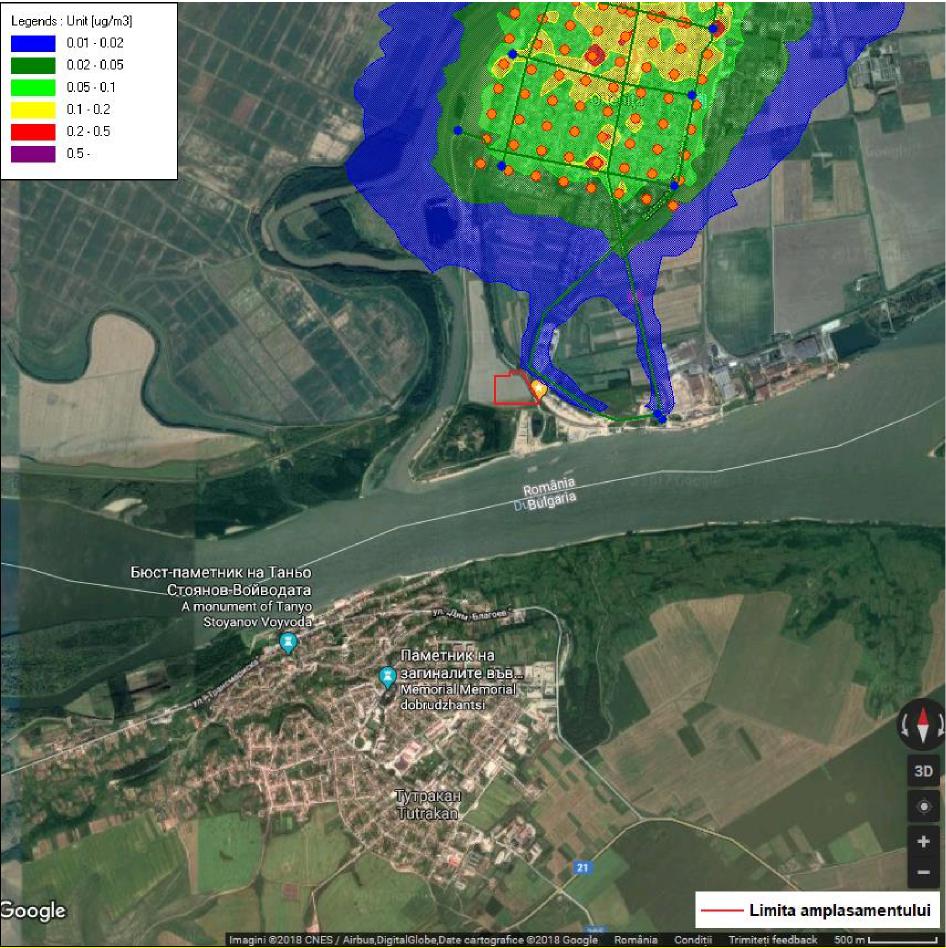
The distribution of SO 2 concentrations in the air   
Averaging time 24 hours   
Summer day (05/07/2017)   
LV = 125 μg/mc (Law 104/2011)   
Maximum concentration 13.71 µg/mc at the point x = 3900 m, y = 6300 m



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 2.20 µg/mc at the point x = 4600 m, y = 6700 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 0.403 µg/mc at the point x = 4400 m, y = 6600 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 0.558 µg/mc at the point x = 4400 m, y = 6600 m