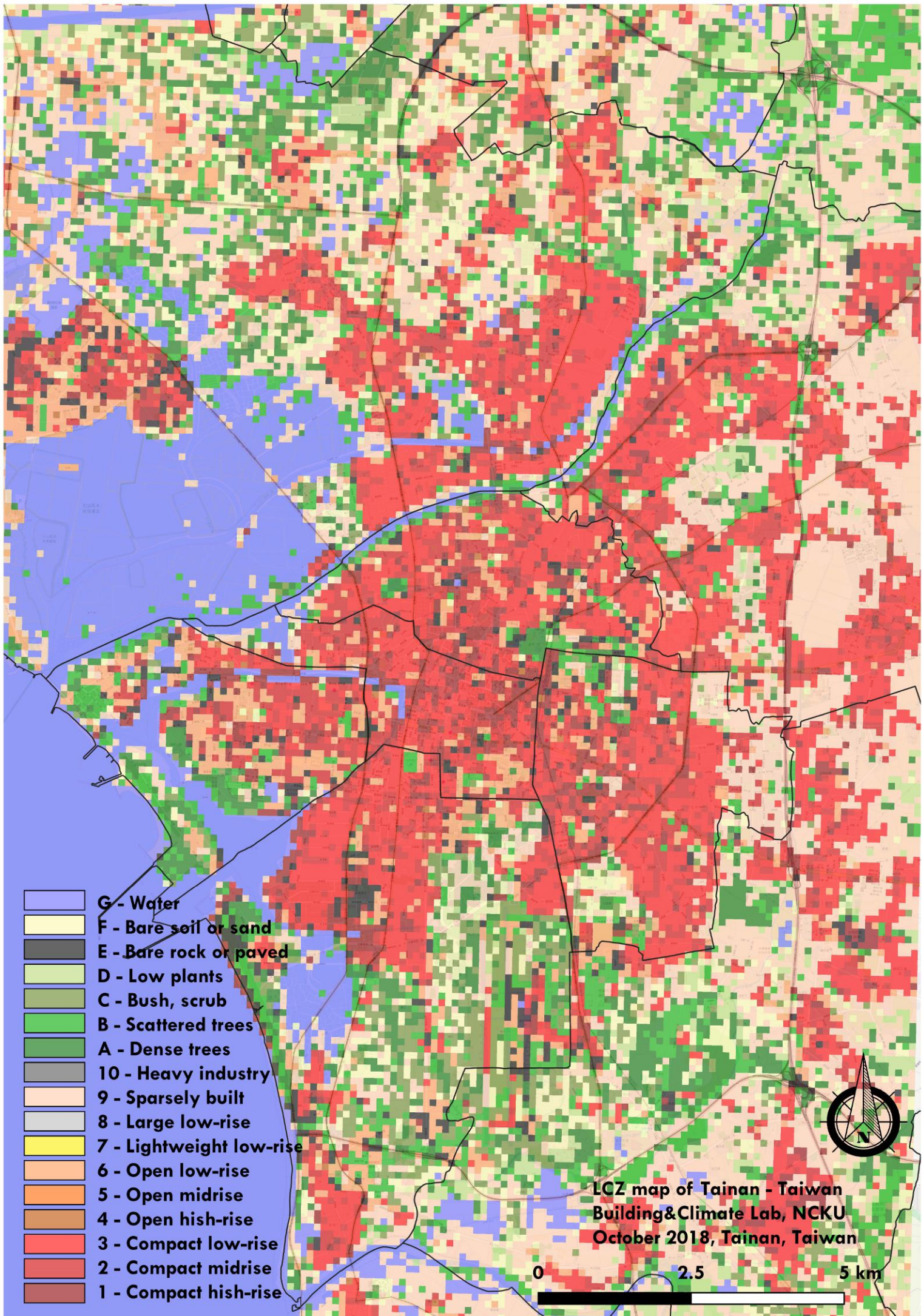
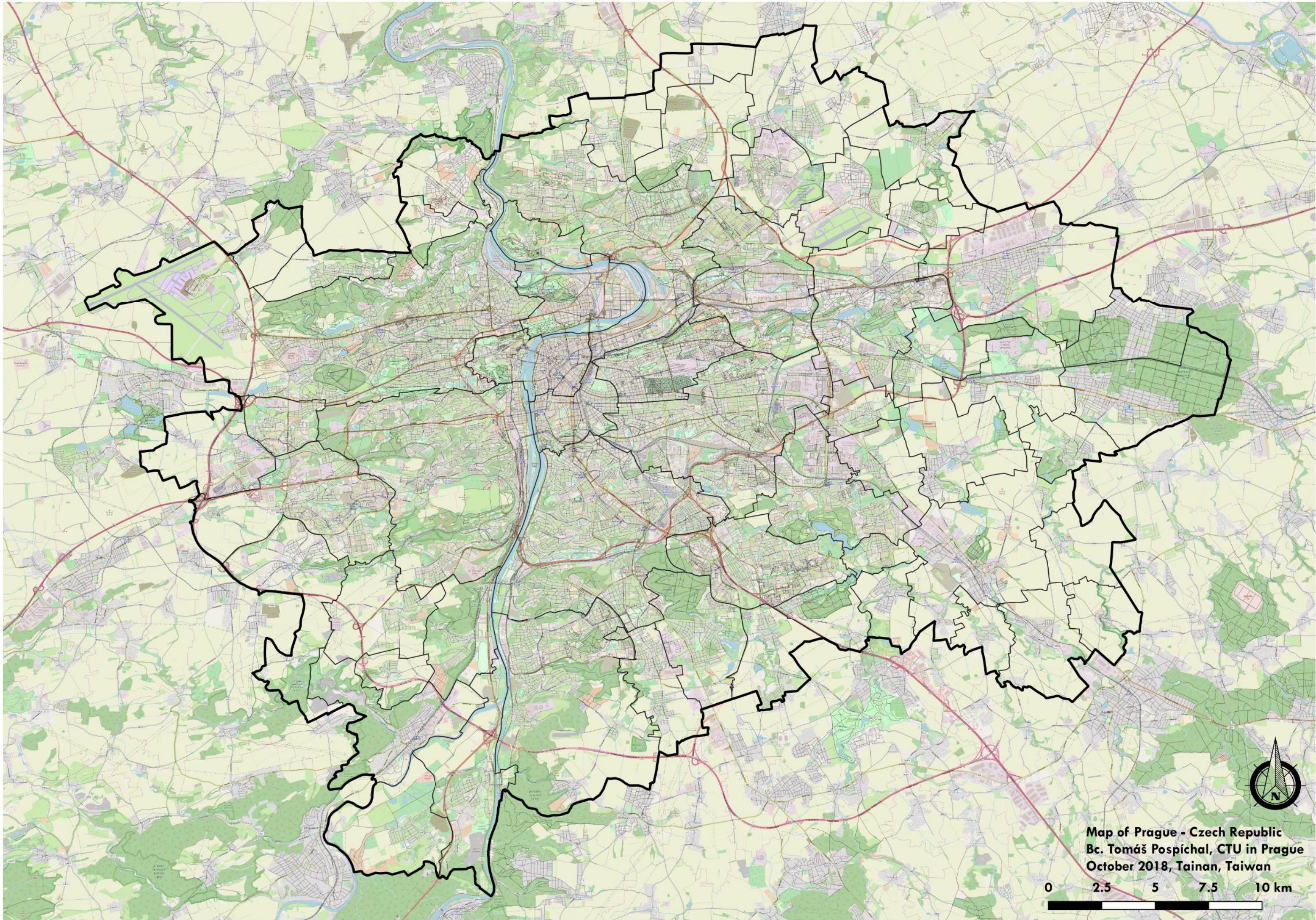


Map of Tainan - Taiwan
Building&Climate Lab, NCKU
October 2018, Tainan, Taiwan

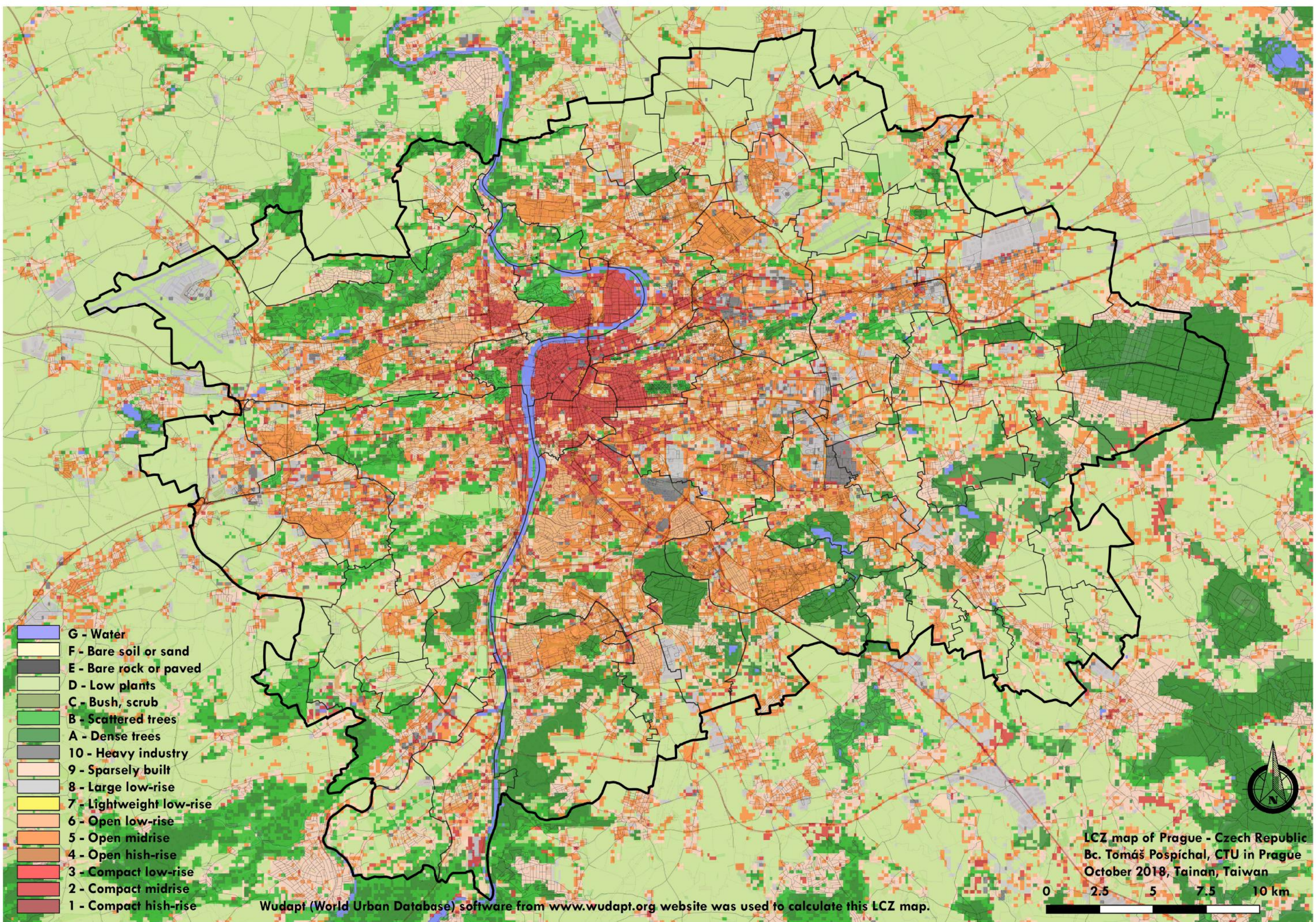
0 2.5 5 km





Map of Prague - Czech Republic
Bc. Tomáš Pospíchal, CTU in Prague
October 2018, Tainan, Taiwan





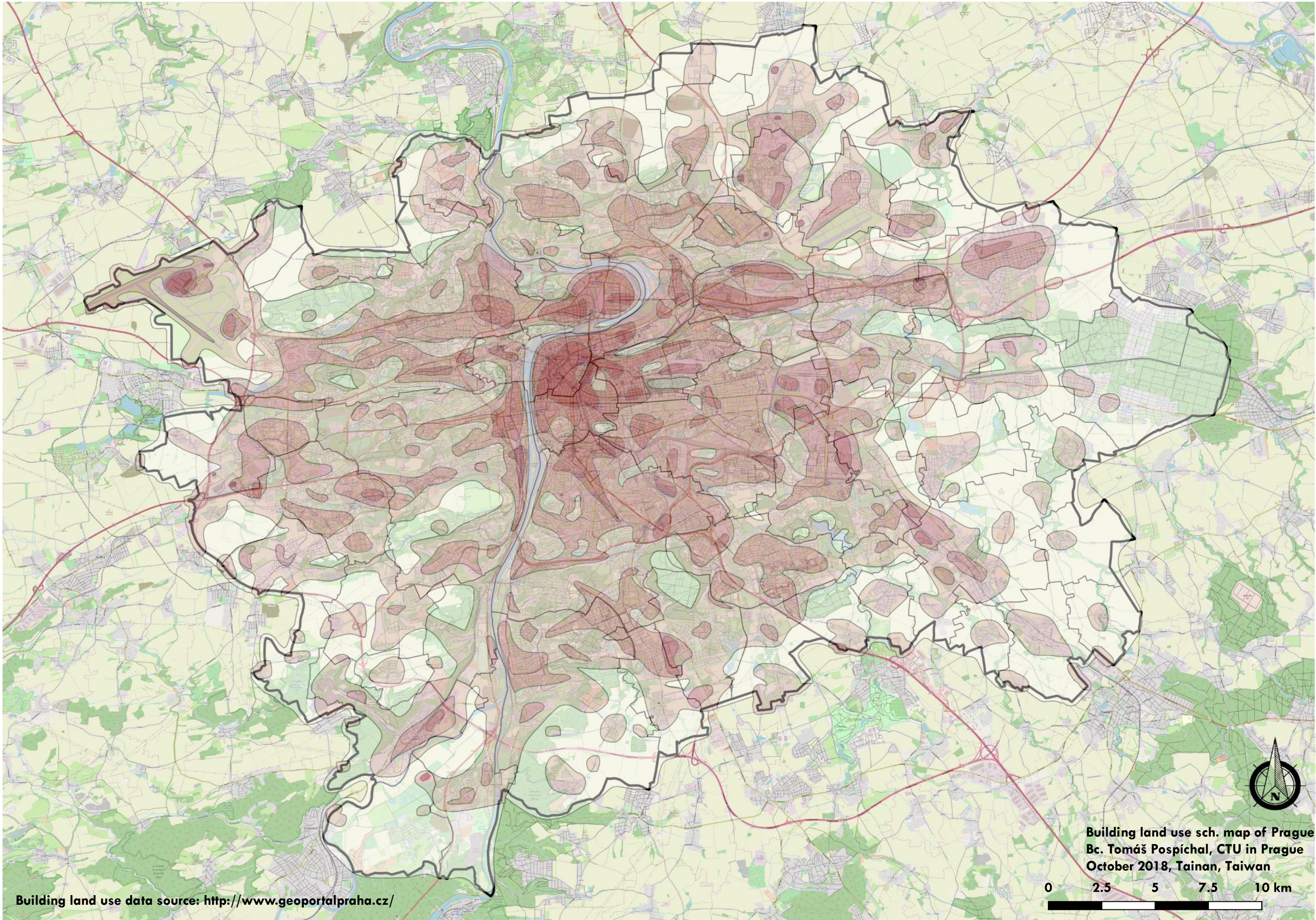
- G - Water
- F - Bare soil or sand
- E - Bare rock or paved
- D - Low plants
- C - Bush, scrub
- B - Scattered trees
- A - Dense trees
- 10 - Heavy industry
- 9 - Sparsely built
- 8 - Large low-rise
- 7 - Lightweight low-rise
- 6 - Open low-rise
- 5 - Open midrise
- 4 - Open high-rise
- 3 - Compact low-rise
- 2 - Compact midrise
- 1 - Compact high-rise

Wudapt (World Urban Database) software from www.wudapt.org website was used to calculate this LCZ map.

LCZ map of Prague - Czech Republic
 Bc. Tomáš Pospíchal, CTU in Prague
 October 2018, Tainan, Taiwan

0 2.5 5 7.5 10 km

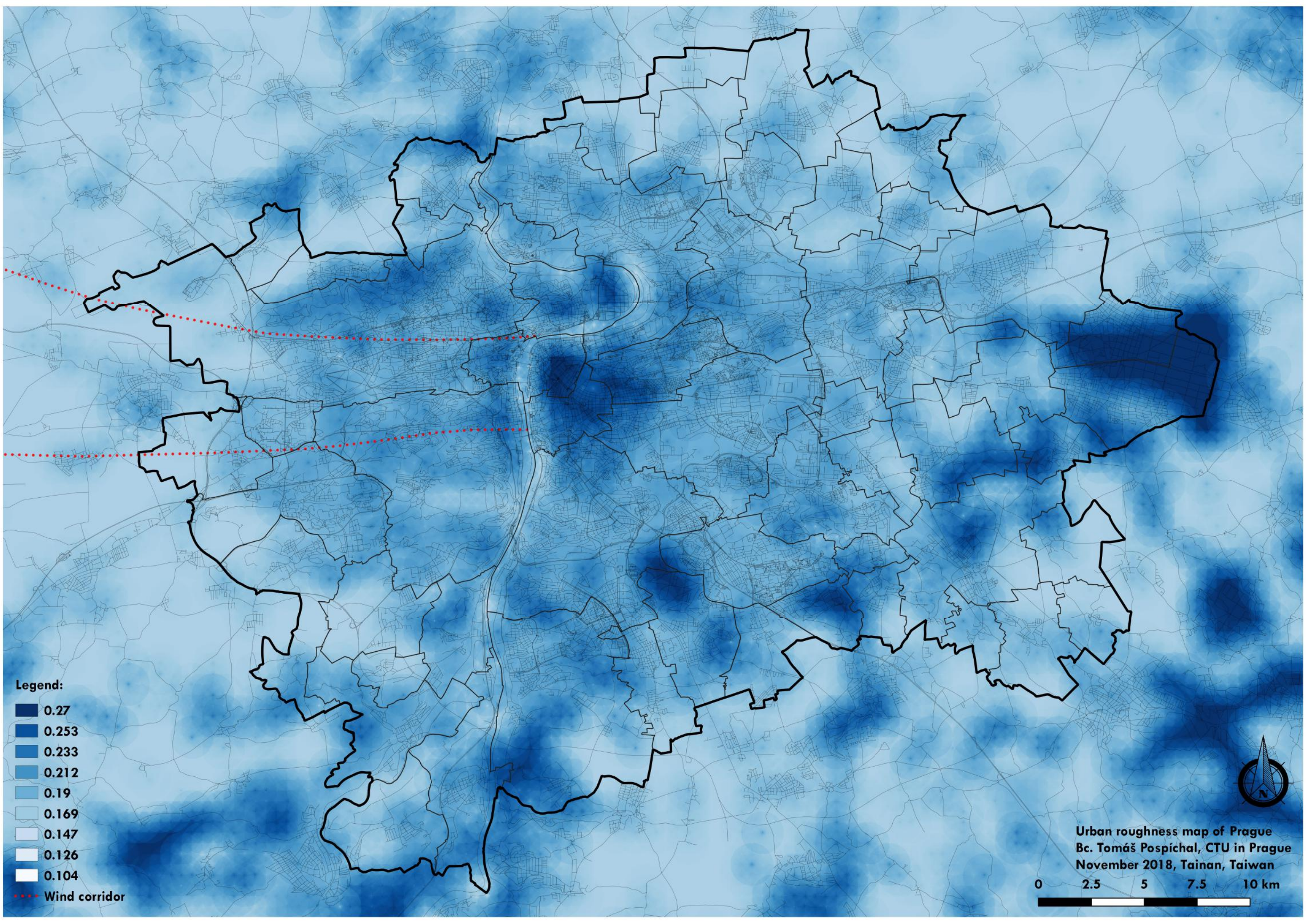




Building land use data source: <http://www.geoportalpraha.cz/>

Building land use sch. map of Prague
Bc. Tomáš Pospíchal, CTU in Prague
October 2018, Tainan, Taiwan



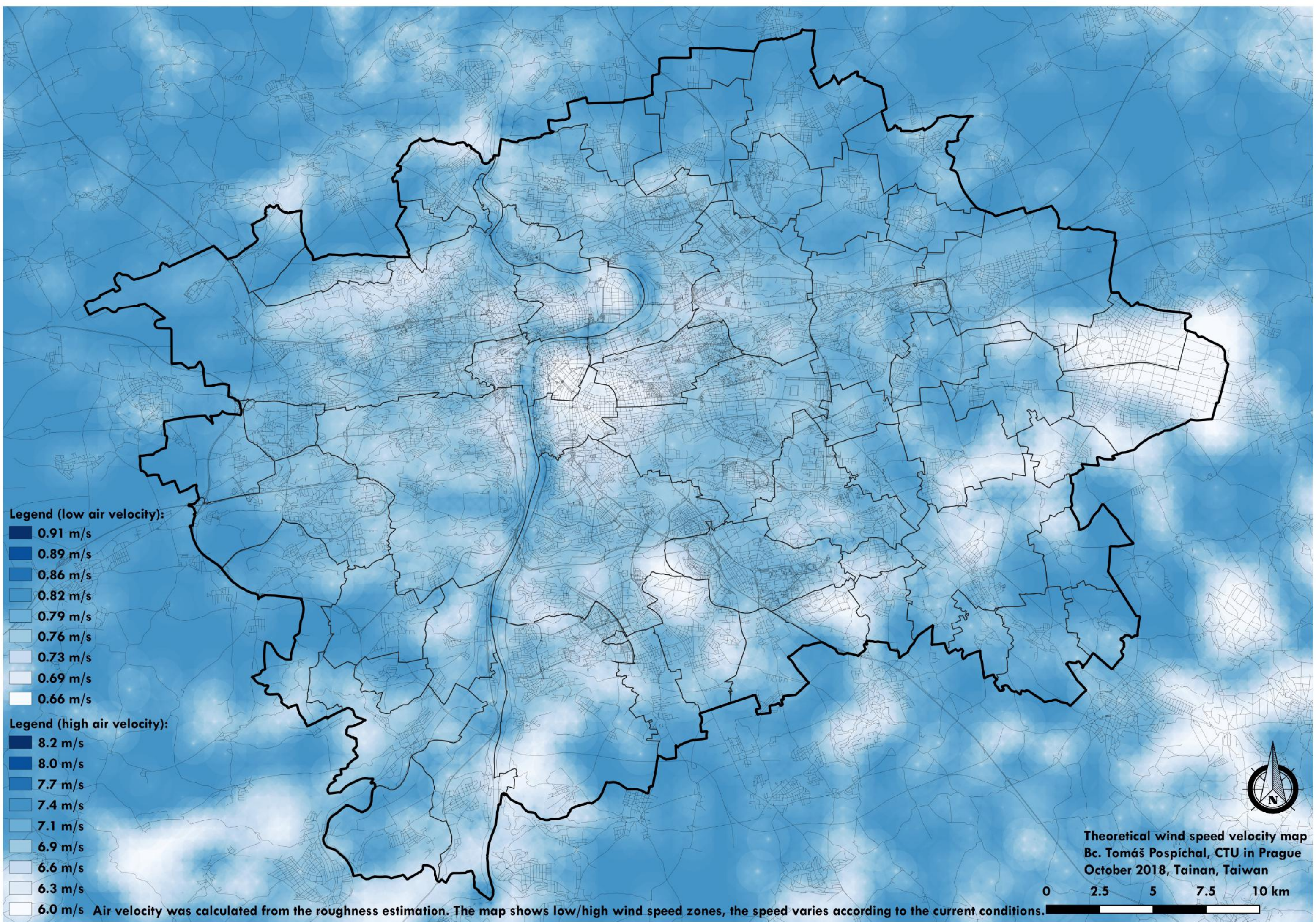


Legend:

- 0.27
- 0.253
- 0.233
- 0.212
- 0.19
- 0.169
- 0.147
- 0.126
- 0.104
- Wind corridor

Urban roughness map of Prague
Bc. Tomáš Pospíchal, CTU in Prague
November 2018, Tainan, Taiwan





Legend (low air velocity):

- 0.91 m/s
- 0.89 m/s
- 0.86 m/s
- 0.82 m/s
- 0.79 m/s
- 0.76 m/s
- 0.73 m/s
- 0.69 m/s
- 0.66 m/s

Legend (high air velocity):

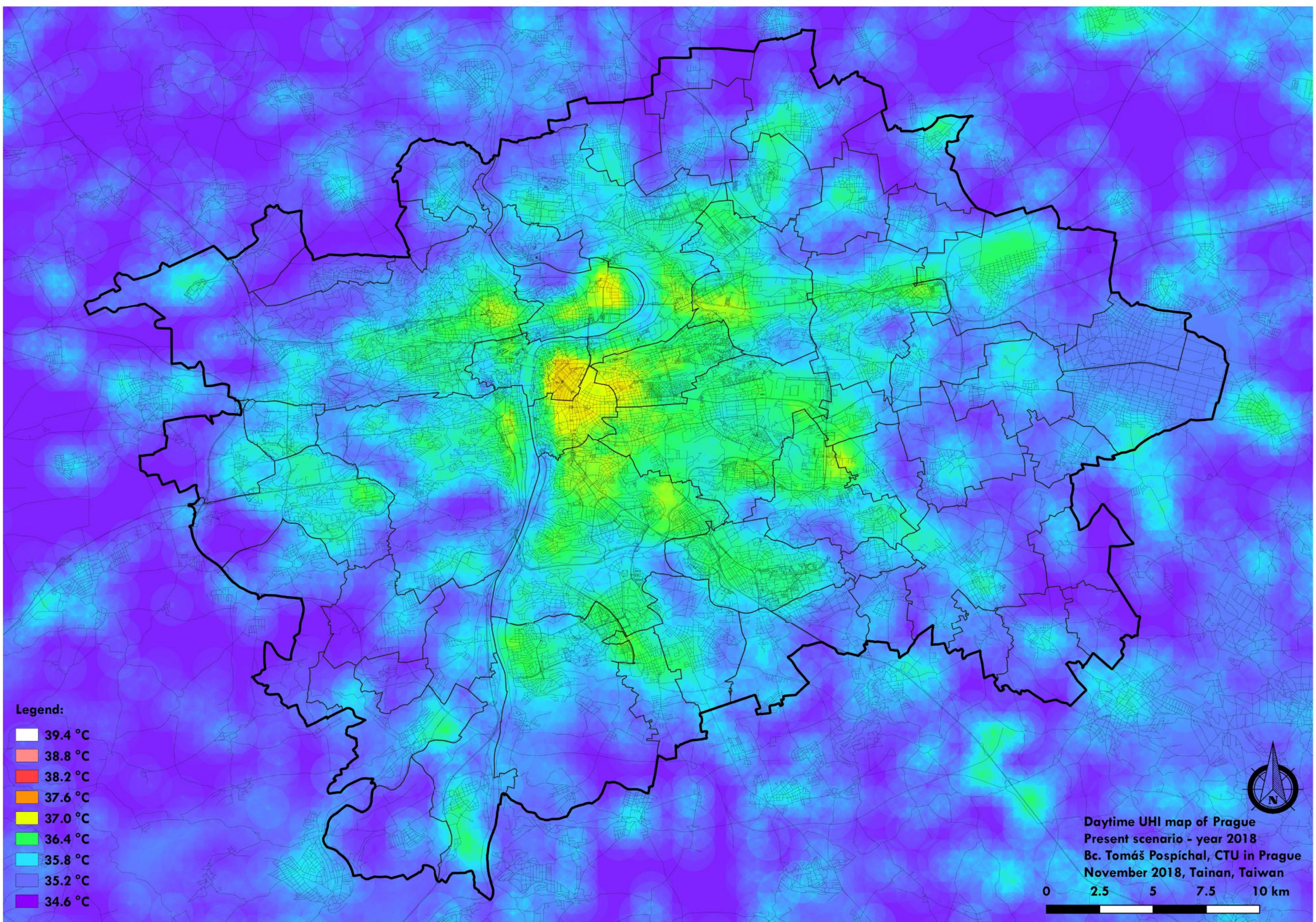
- 8.2 m/s
- 8.0 m/s
- 7.7 m/s
- 7.4 m/s
- 7.1 m/s
- 6.9 m/s
- 6.6 m/s
- 6.3 m/s
- 6.0 m/s

Theoretical wind speed velocity map
Bc. Tomáš Pospíchal, CTU in Prague
October 2018, Tainan, Taiwan

0 2.5 5 7.5 10 km



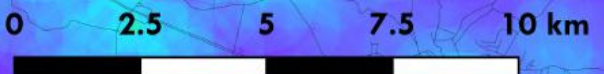
Air velocity was calculated from the roughness estimation. The map shows low/high wind speed zones, the speed varies according to the current conditions.

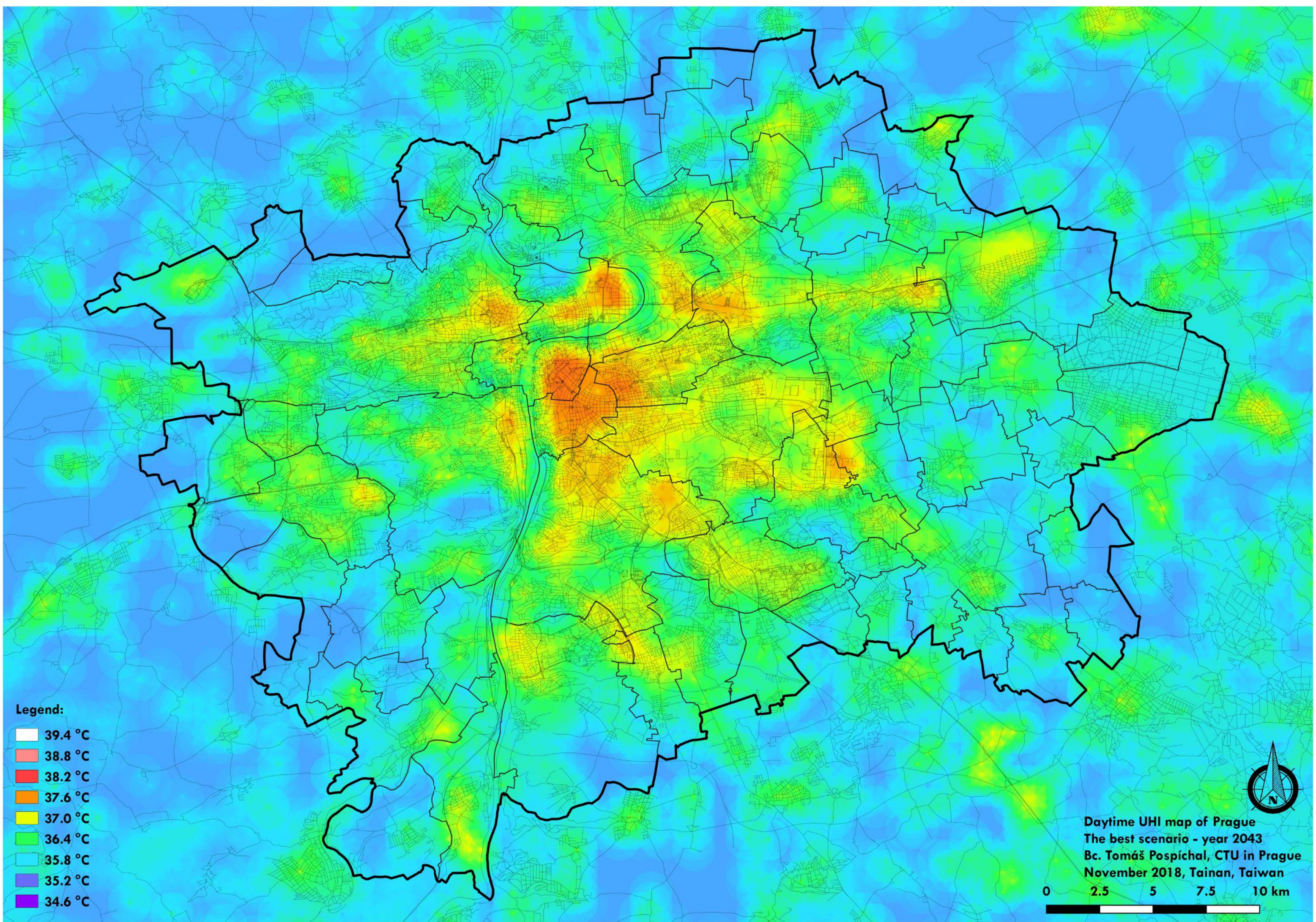


Legend:

- 39.4 °C
- 38.8 °C
- 38.2 °C
- 37.6 °C
- 37.0 °C
- 36.4 °C
- 35.8 °C
- 35.2 °C
- 34.6 °C

Daytime UHI map of Prague
Present scenario - year 2018
Bc. Tomáš Pospíchal, CTU in Prague
November 2018, Tainan, Taiwan



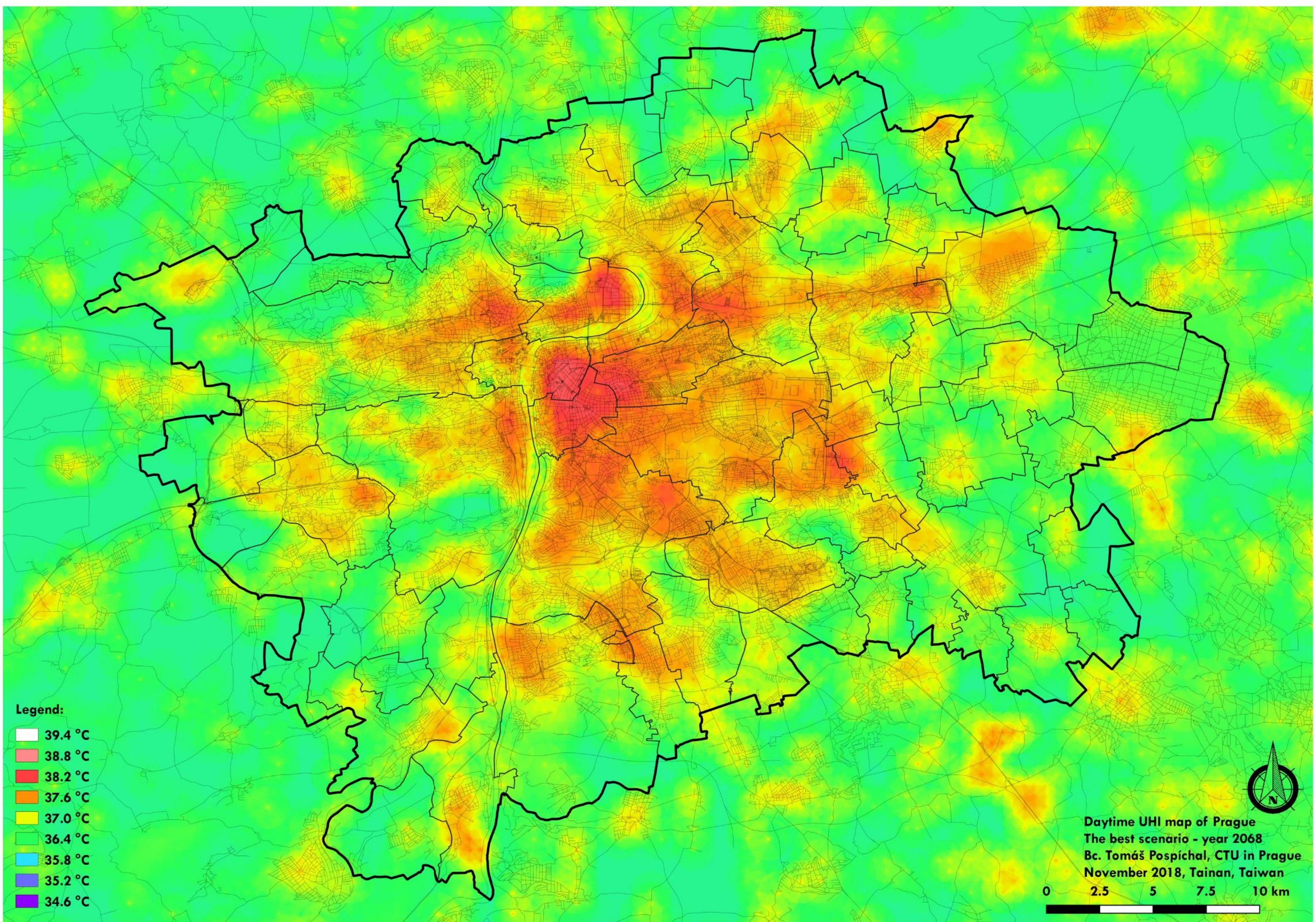


Legend:

- 39.4 °C
- 38.8 °C
- 38.2 °C
- 37.6 °C
- 37.0 °C
- 36.4 °C
- 35.8 °C
- 35.2 °C
- 34.6 °C

Daytime UHI map of Prague
The best scenario - year 2043
Bc. Tomáš Pospíchal, CTU in Prague
November 2018, Tainan, Taiwan



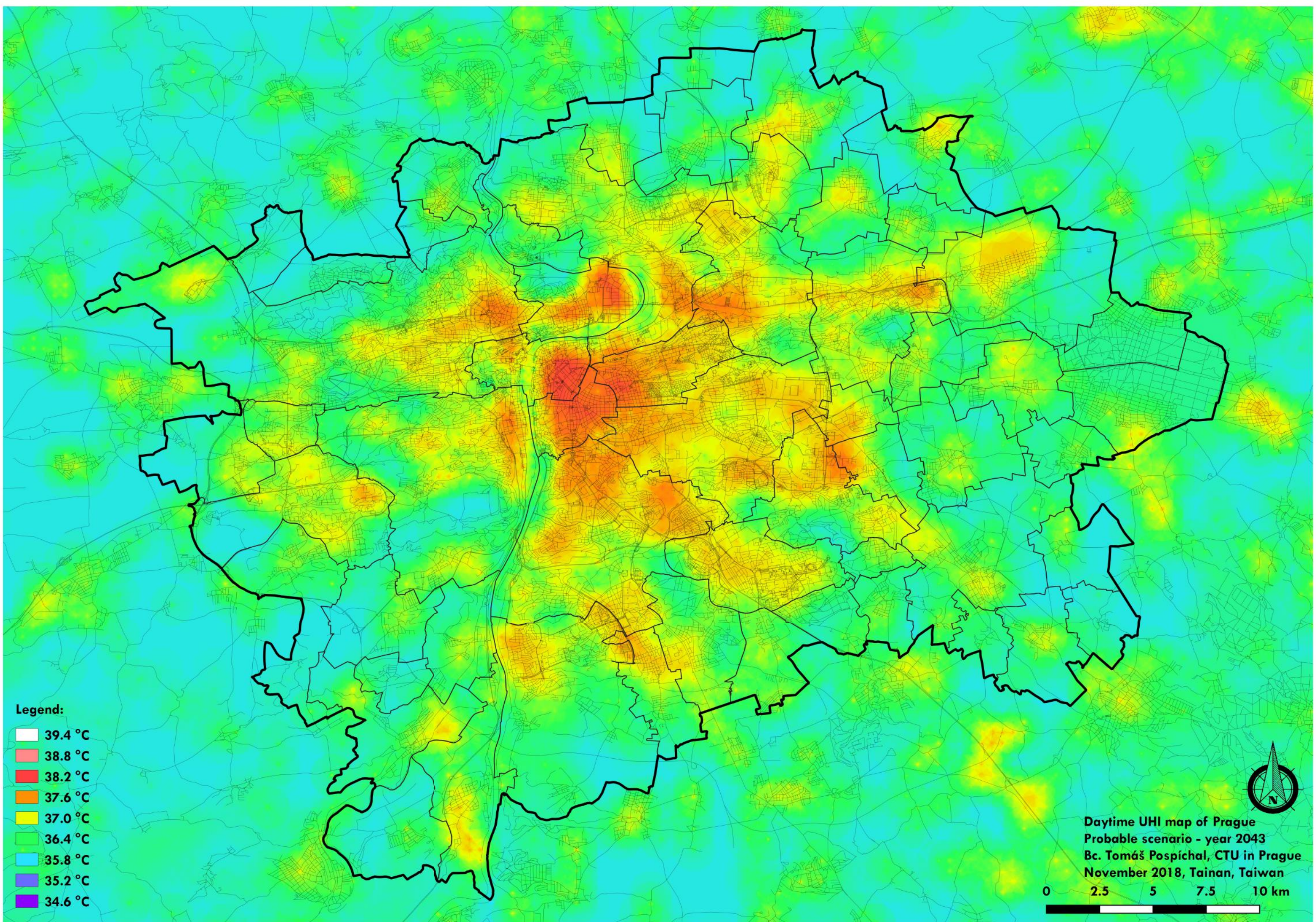


Legend:

- 39.4 °C
- 38.8 °C
- 38.2 °C
- 37.6 °C
- 37.0 °C
- 36.4 °C
- 35.8 °C
- 35.2 °C
- 34.6 °C

Daytime UHI map of Prague
The best scenario - year 2068
Bc. Tomáš Pospíchal, CTU in Prague
November 2018, Tainan, Taiwan



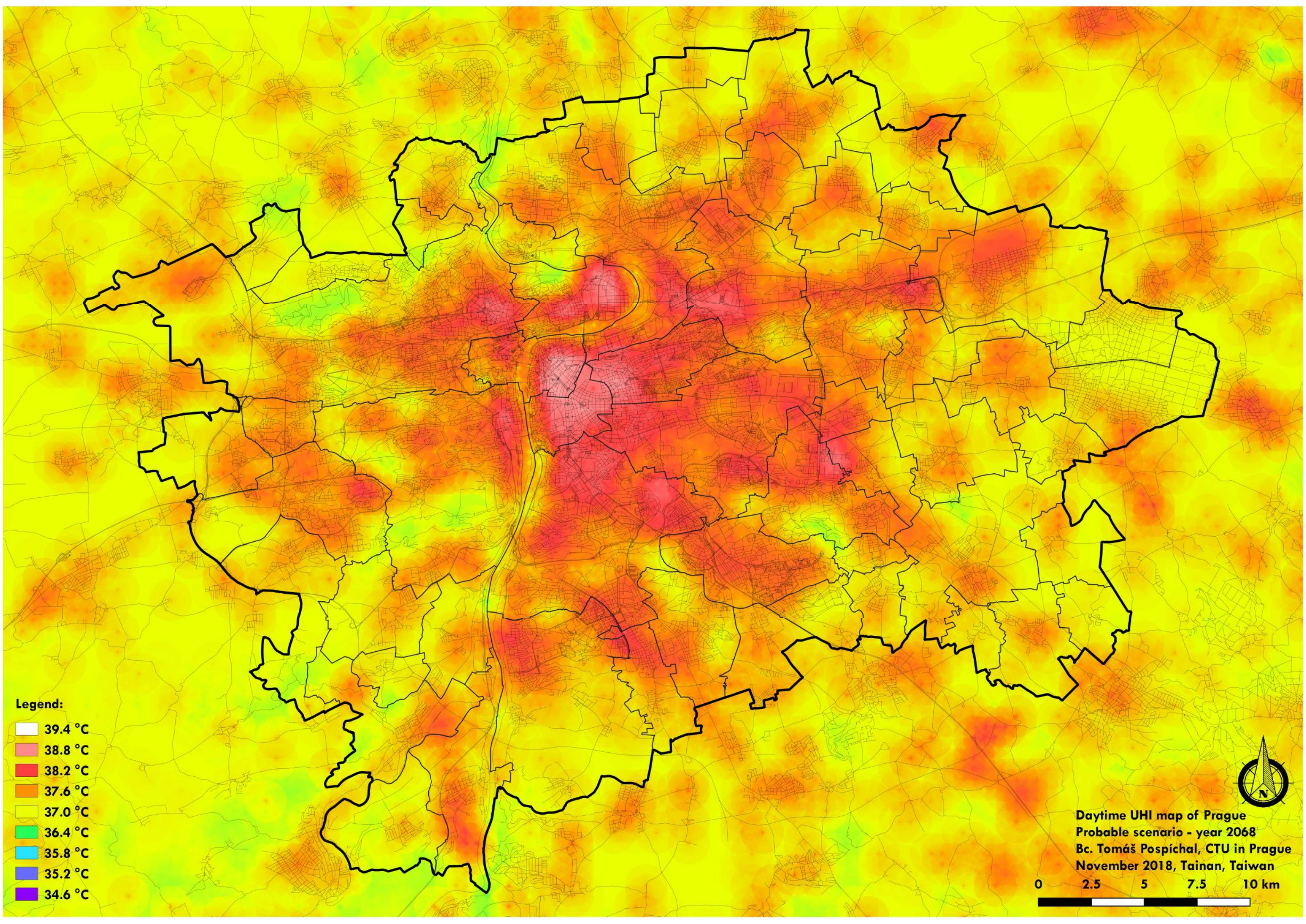


Legend:

- 39.4 °C
- 38.8 °C
- 38.2 °C
- 37.6 °C
- 37.0 °C
- 36.4 °C
- 35.8 °C
- 35.2 °C
- 34.6 °C

Daytime UHI map of Prague
Probable scenario - year 2043
Bc. Tomáš Pospíchal, CTU in Prague
November 2018, Tainan, Taiwan



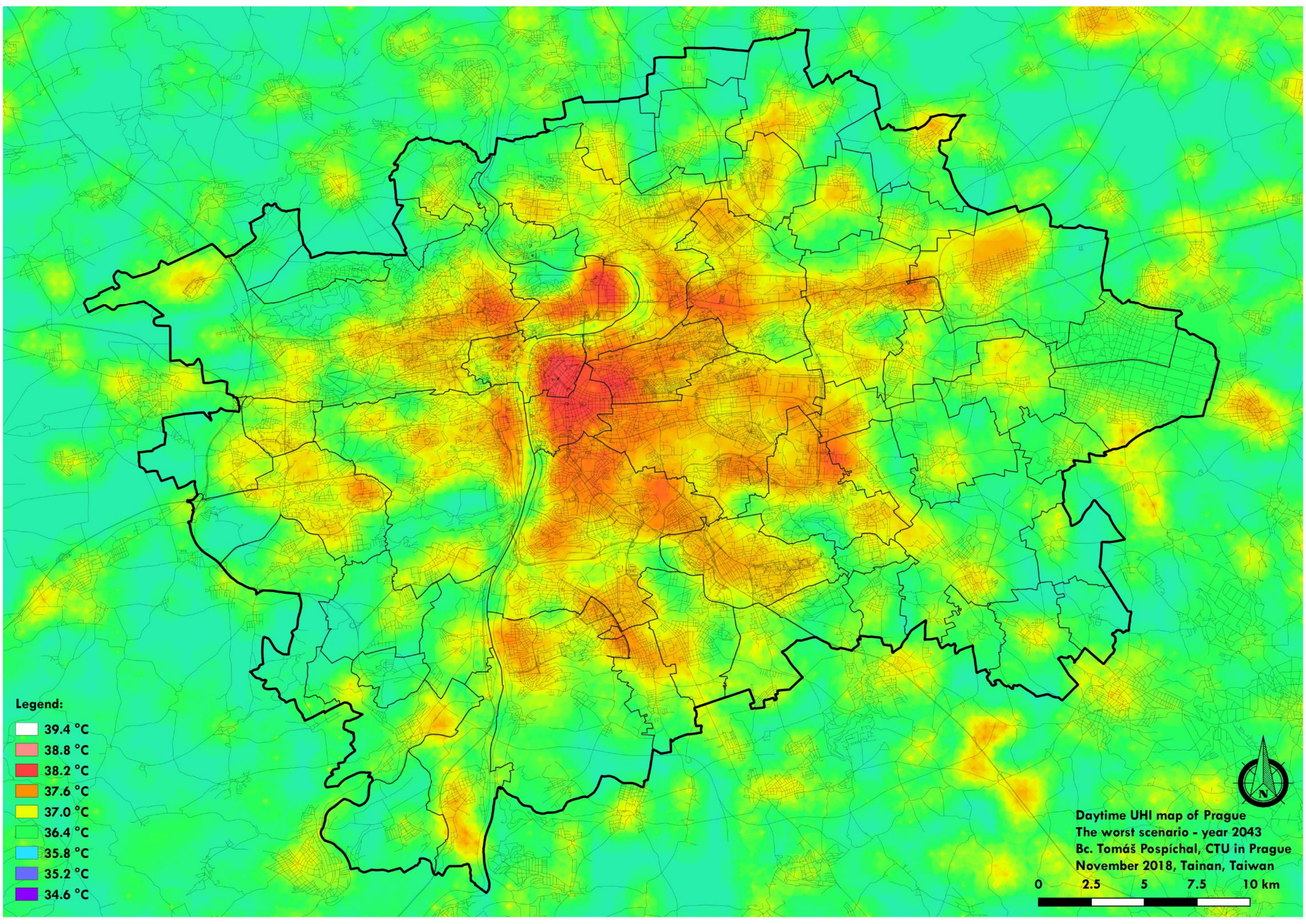


Legend:

- 39.4 °C
- 38.8 °C
- 38.2 °C
- 37.6 °C
- 37.0 °C
- 36.4 °C
- 35.8 °C
- 35.2 °C
- 34.6 °C

Daytime UHI map of Prague
Probable scenario - year 2068
Bc. Tomáš Pospíchal, CTU in Prague
November 2018, Tainan, Taiwan



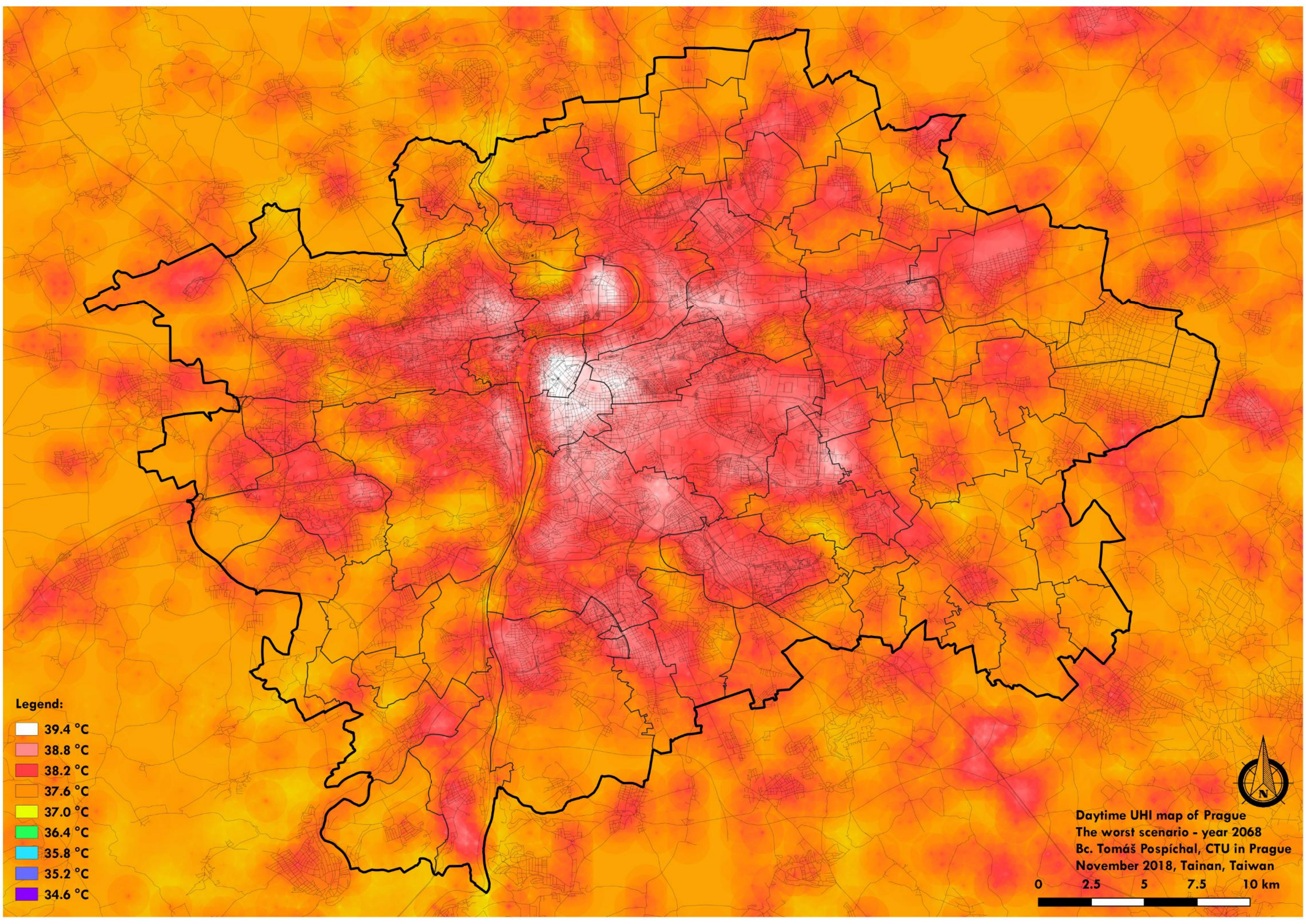


Legend:

- 39.4 °C
- 38.8 °C
- 38.2 °C
- 37.6 °C
- 37.0 °C
- 36.4 °C
- 35.8 °C
- 35.2 °C
- 34.6 °C

Daytime UHI map of Prague
The worst scenario - year 2043
Bc. Tomáš Pospíchal, CTU in Prague
November 2018, Tainan, Taiwan



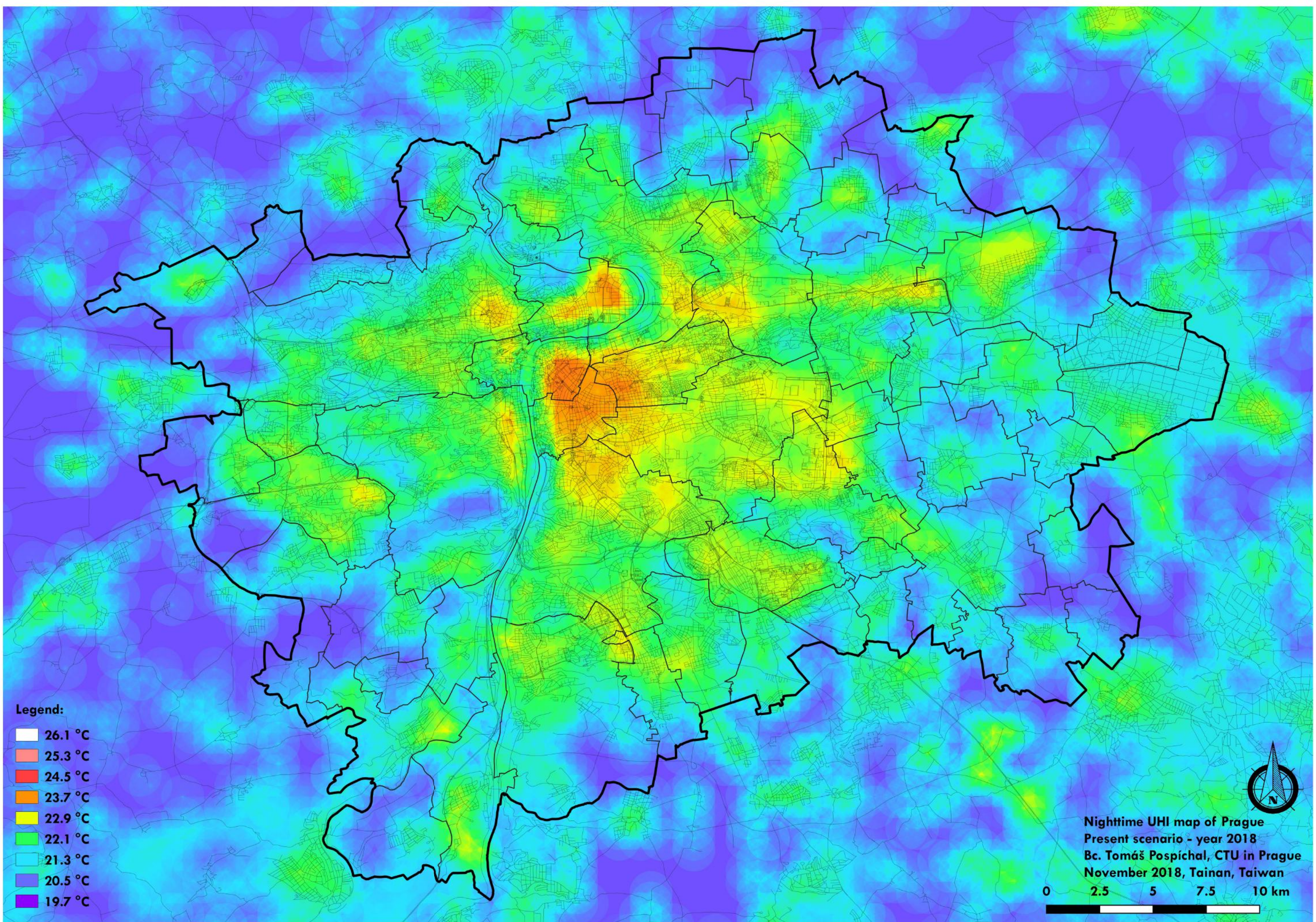


Legend:

- 39.4 °C
- 38.8 °C
- 38.2 °C
- 37.6 °C
- 37.0 °C
- 36.4 °C
- 35.8 °C
- 35.2 °C
- 34.6 °C

Daytime UHI map of Prague
The worst scenario - year 2068
Bc. Tomáš Pospíchal, CTU in Prague
November 2018, Tainan, Taiwan



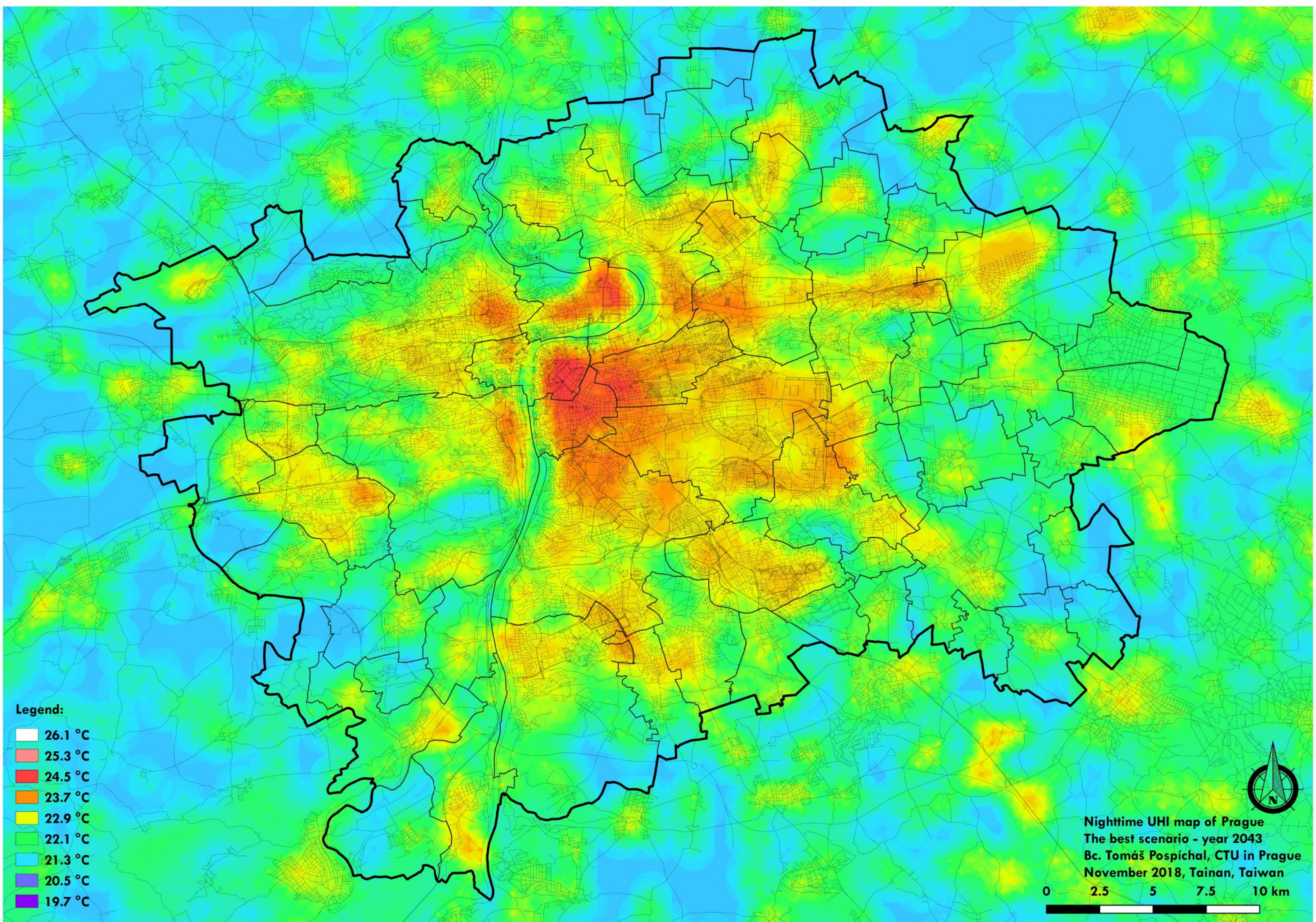


Legend:

- 26.1 °C
- 25.3 °C
- 24.5 °C
- 23.7 °C
- 22.9 °C
- 22.1 °C
- 21.3 °C
- 20.5 °C
- 19.7 °C

Nighttime UHI map of Prague
Present scenario - year 2018
Bc. Tomáš Pospíchal, CTU in Prague
November 2018, Tainan, Taiwan



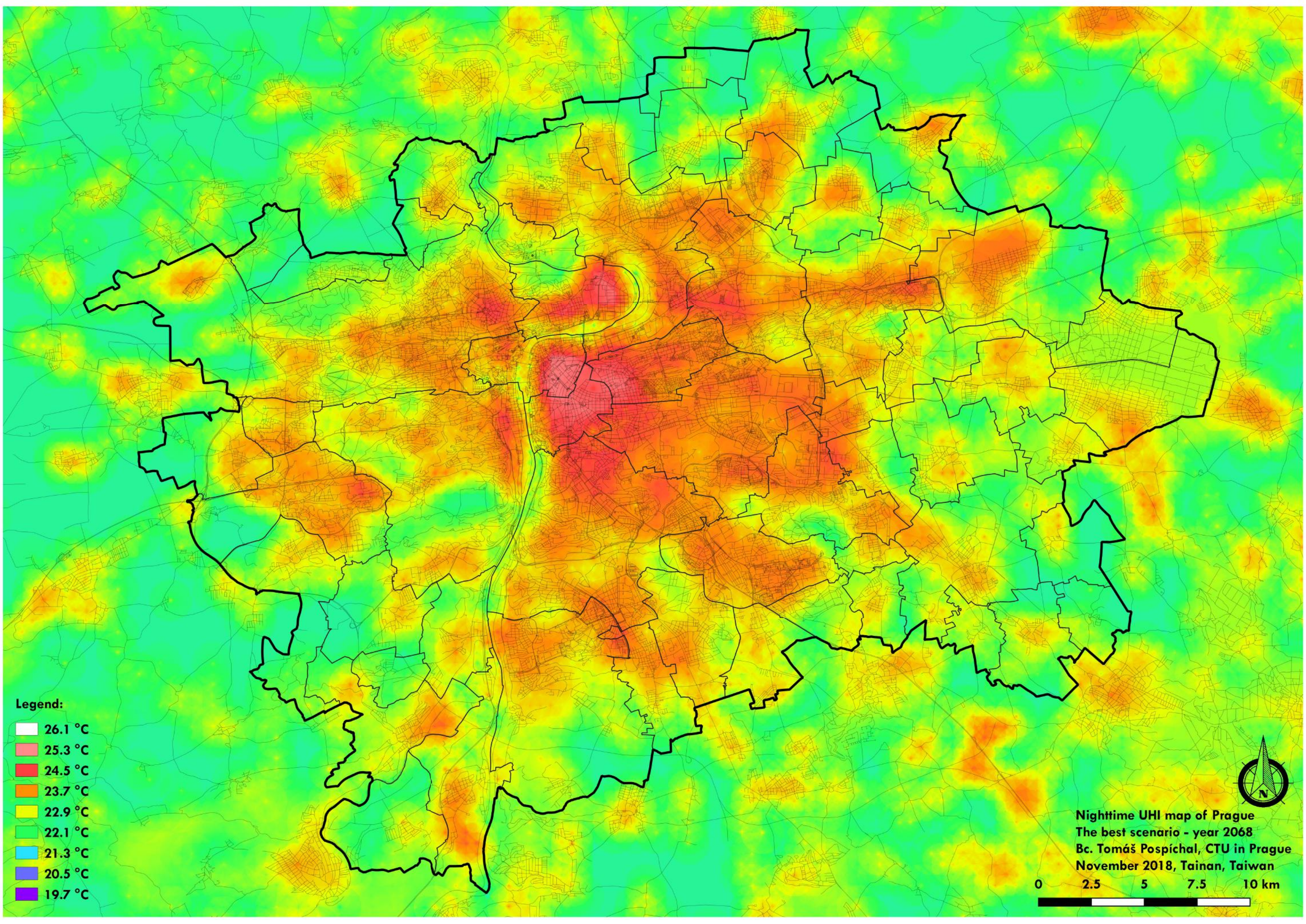


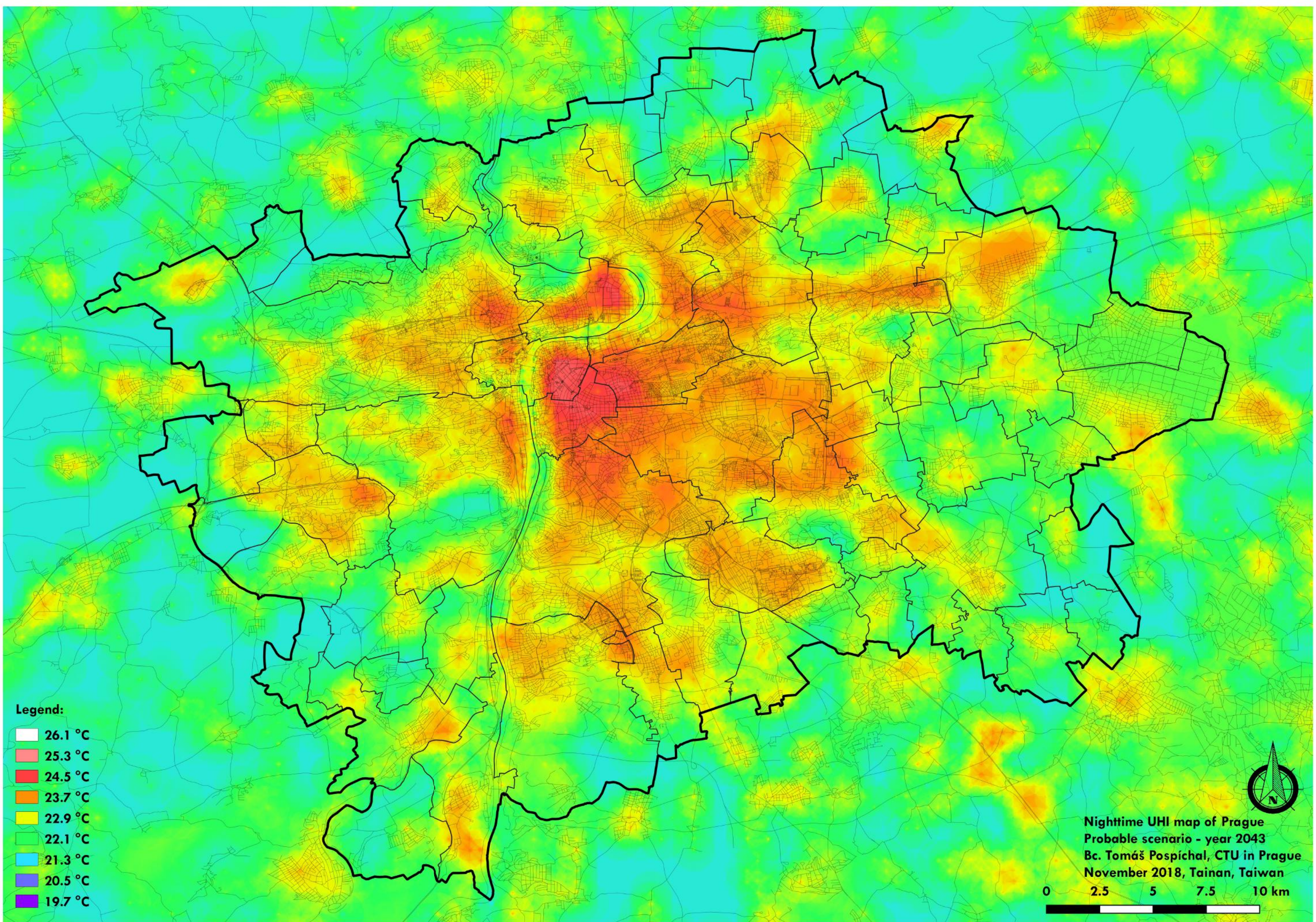
Legend:

- 26.1 °C
- 25.3 °C
- 24.5 °C
- 23.7 °C
- 22.9 °C
- 22.1 °C
- 21.3 °C
- 20.5 °C
- 19.7 °C

Nighttime UHI map of Prague
The best scenario - year 2043
Bc. Tomáš Pospíchal, CTU in Prague
November 2018, Tainan, Taiwan





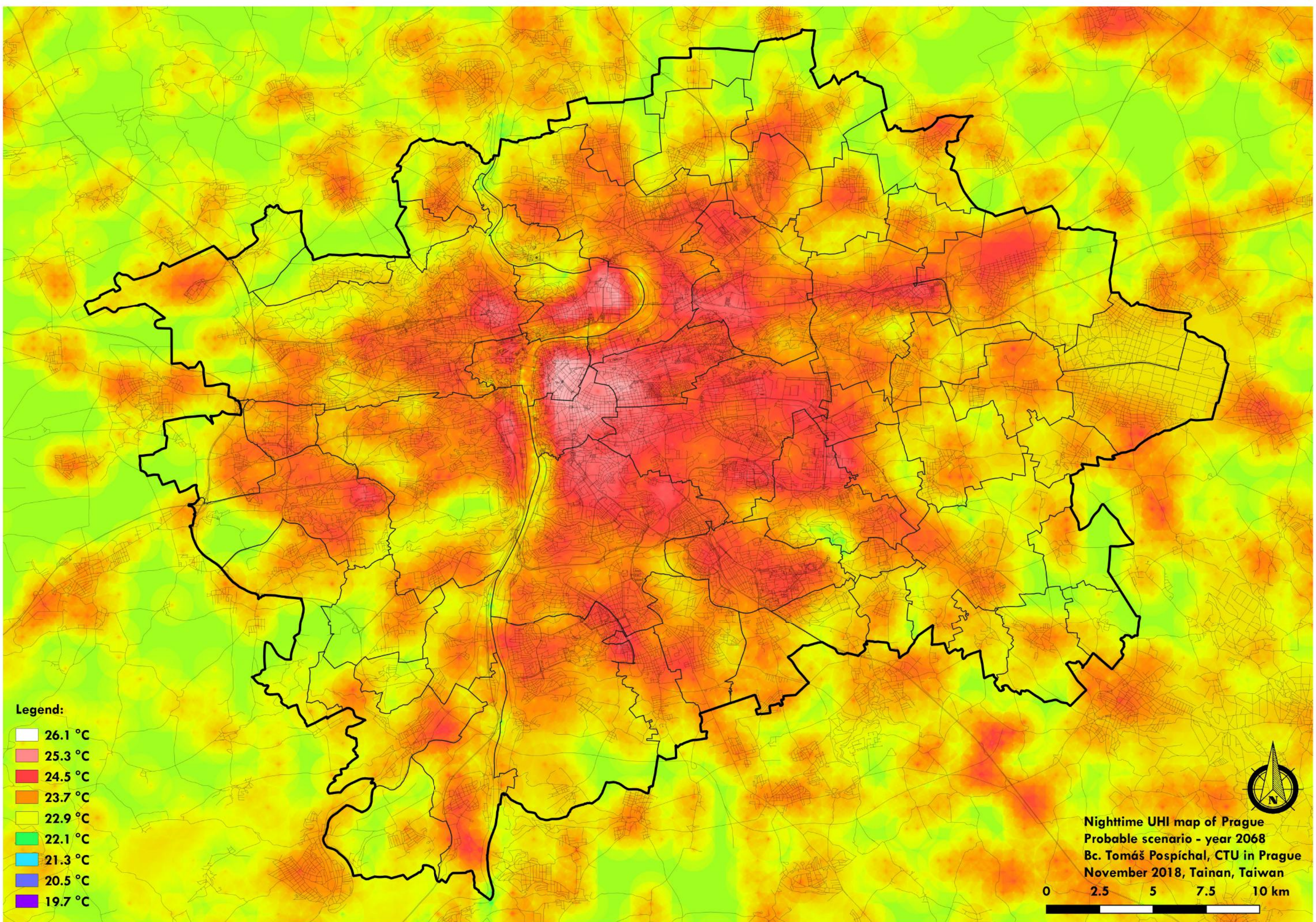


Legend:

- 26.1 °C
- 25.3 °C
- 24.5 °C
- 23.7 °C
- 22.9 °C
- 22.1 °C
- 21.3 °C
- 20.5 °C
- 19.7 °C

Nighttime UHI map of Prague
Probable scenario - year 2043
Bc. Tomáš Pospíchal, CTU in Prague
November 2018, Tainan, Taiwan



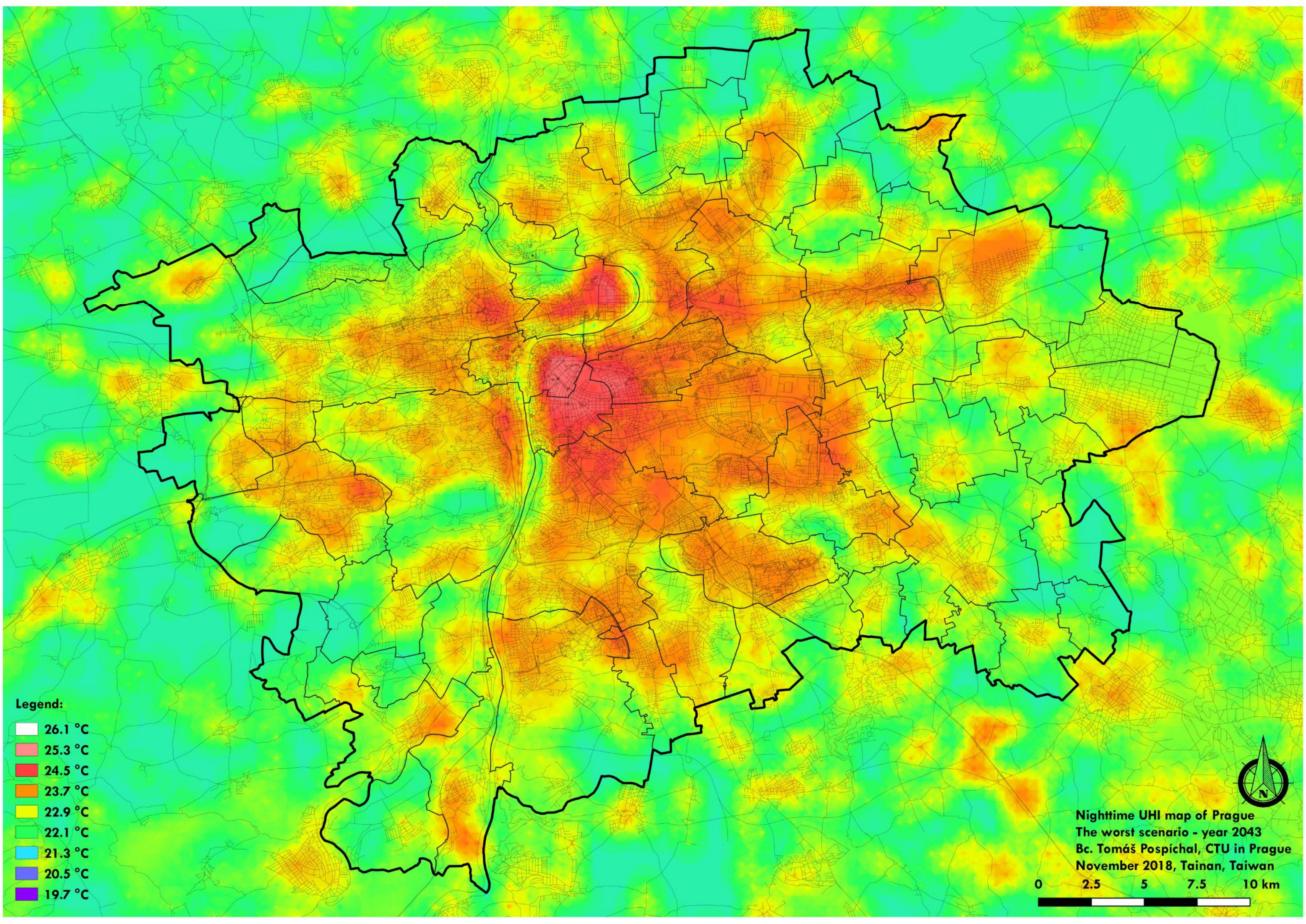


Legend:

- 26.1 °C
- 25.3 °C
- 24.5 °C
- 23.7 °C
- 22.9 °C
- 22.1 °C
- 21.3 °C
- 20.5 °C
- 19.7 °C

Nighttime UHI map of Prague
Probable scenario - year 2068
Bc. Tomáš Pospíchal, CTU in Prague
November 2018, Tainan, Taiwan



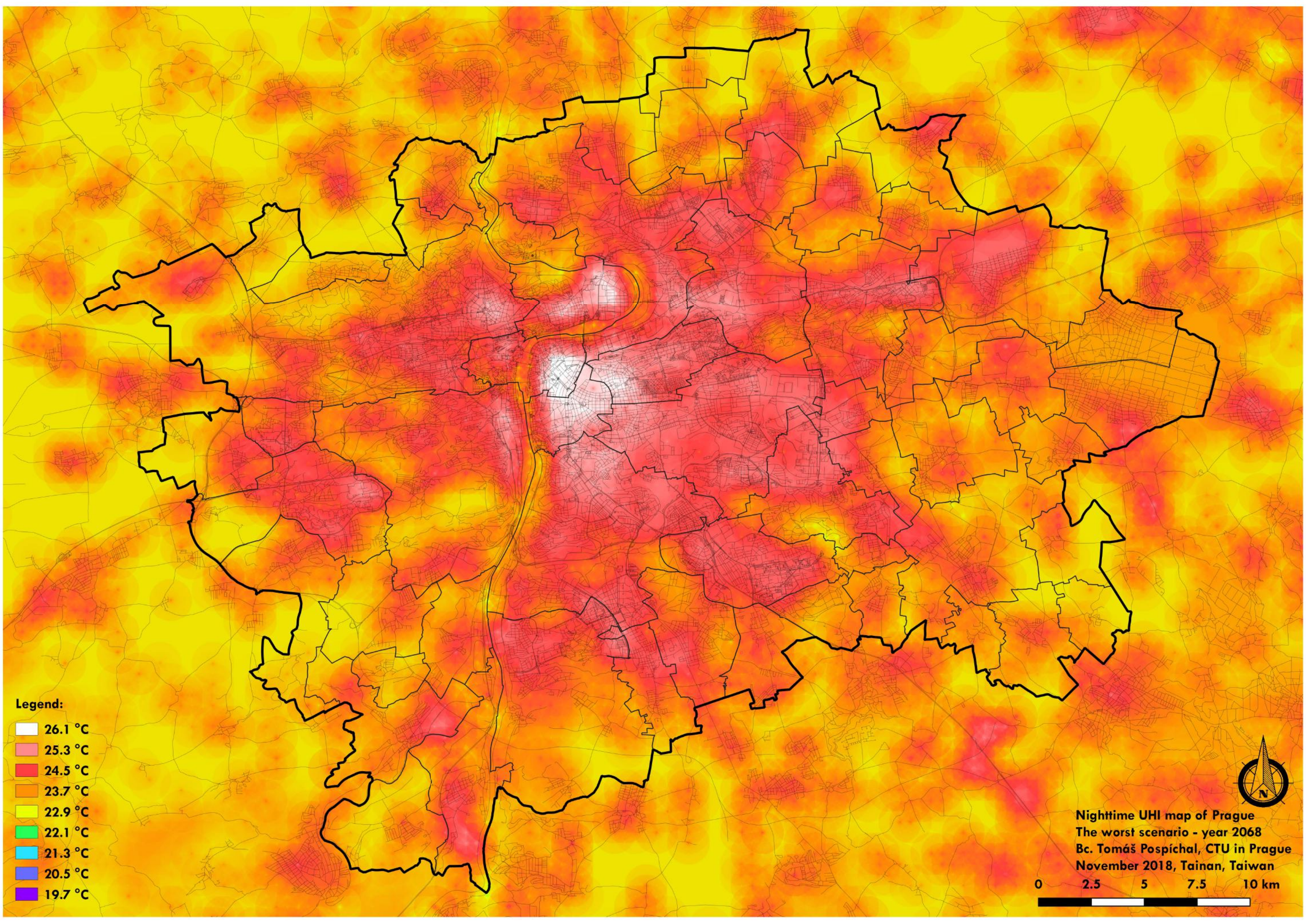


Legend:

- 26.1 °C
- 25.3 °C
- 24.5 °C
- 23.7 °C
- 22.9 °C
- 22.1 °C
- 21.3 °C
- 20.5 °C
- 19.7 °C

Nighttime UHI map of Prague
The worst scenario - year 2043
Bc. Tomáš Pospíchal, CTU in Prague
November 2018, Tainan, Taiwan





Legend:

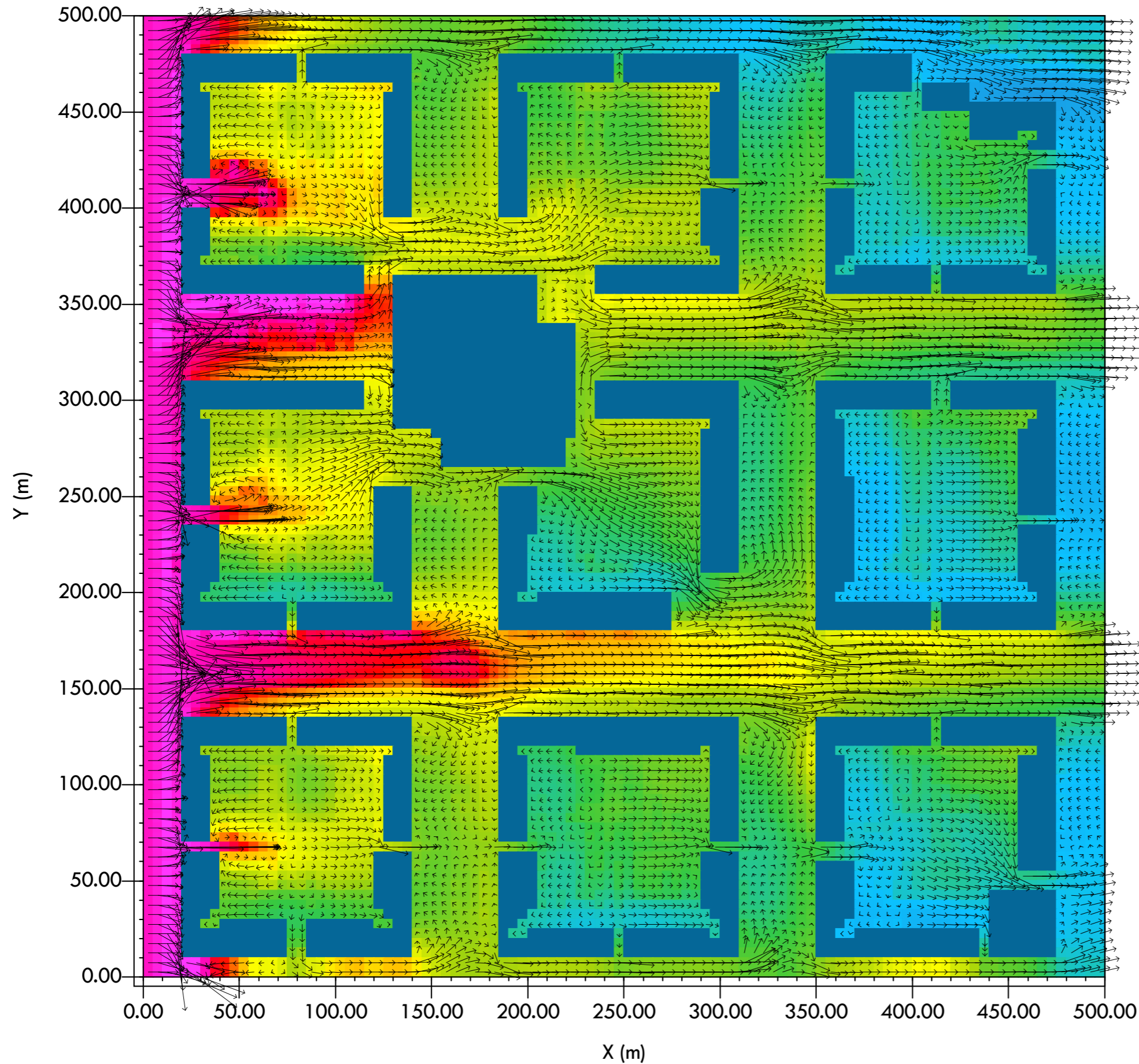
- 26.1 °C
- 25.3 °C
- 24.5 °C
- 23.7 °C
- 22.9 °C
- 22.1 °C
- 21.3 °C
- 20.5 °C
- 19.7 °C

Nighttime UHI map of Prague
The worst scenario - year 2068
Bc. Tomáš Pospíchal, CTU in Prague
November 2018, Tainan, Taiwan

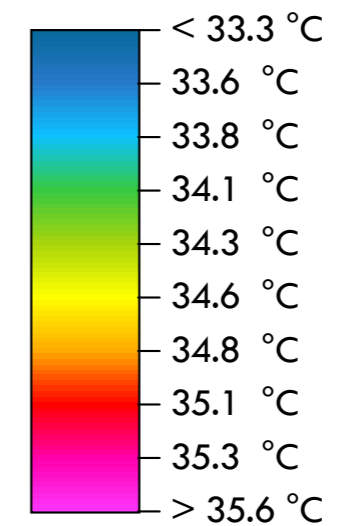


Velká Ohrada, Prague, CZE
3 pm. 8th August 2018 (Org.)

x/y Cut at k=0 (z=1.0000 m)



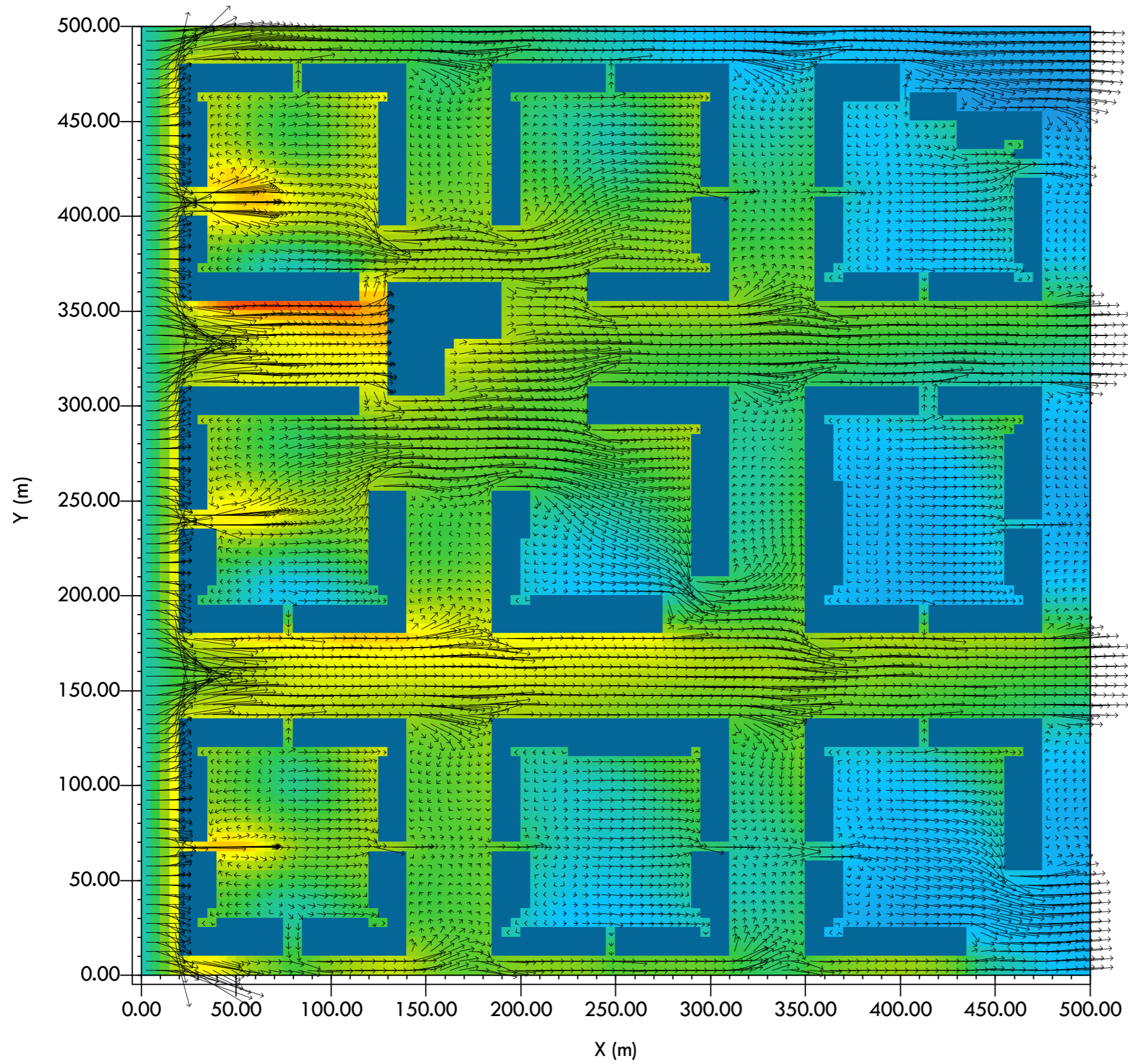
Air Temperature



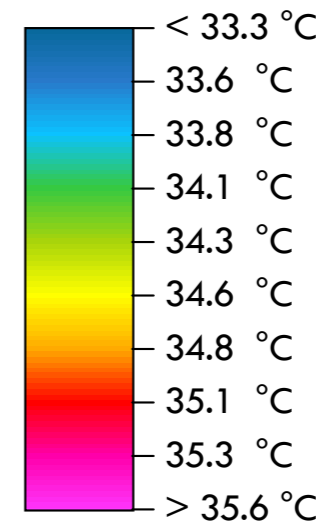
Min: 33.7 °C
Max: 35.9 °C

Velká Ohrada, Prague, CZE
3 pm. 8th August 2018 (Org.)

x/y Cut at k=5 (z=11.0000 m)



Air Temperature

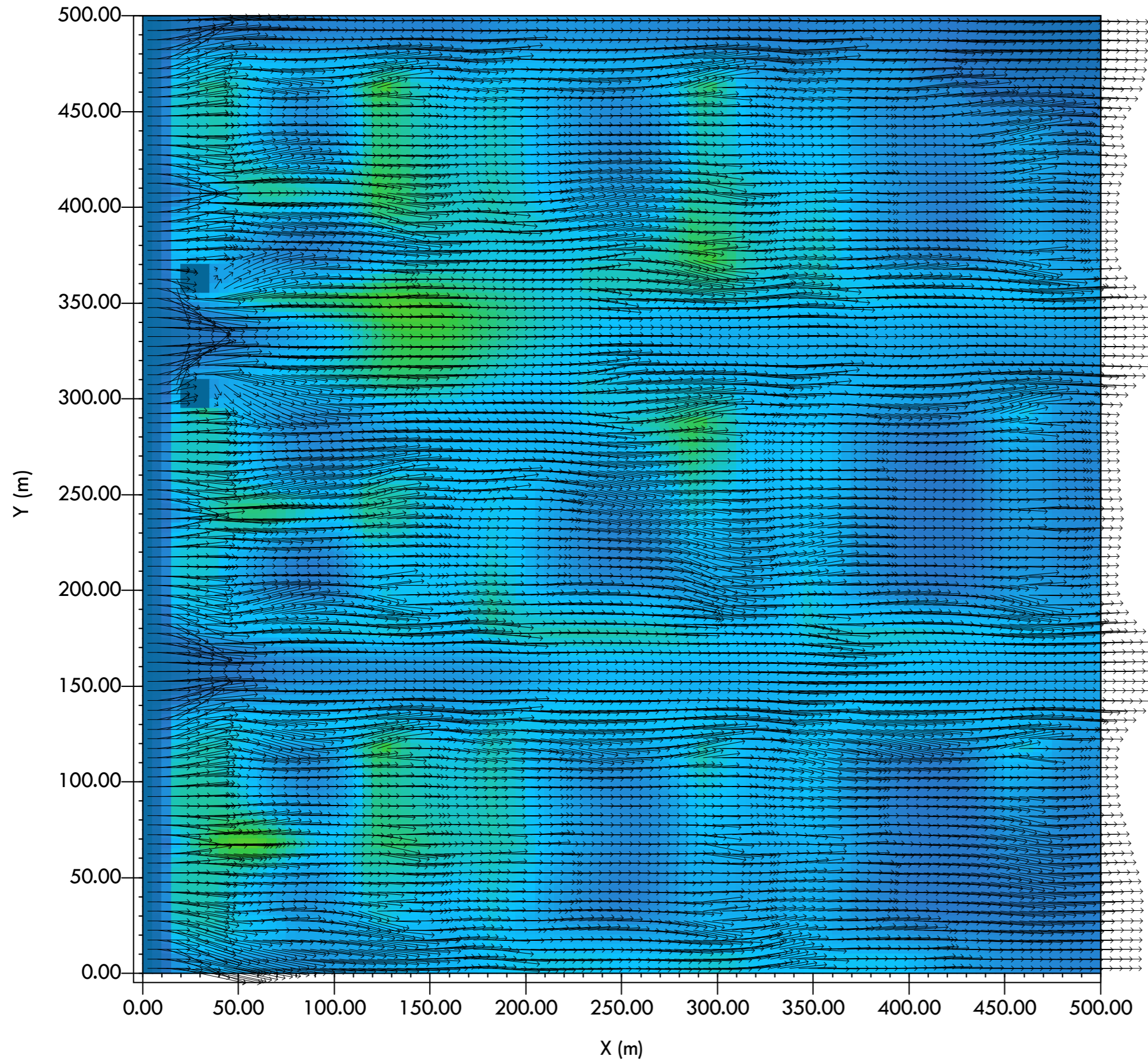


Min: 33.6 °C

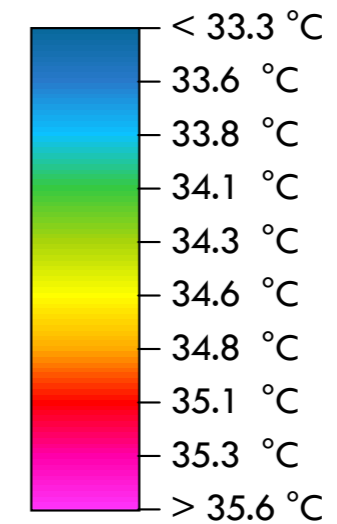
Max: 35.0 °C

Velká Ohrada, Prague, CZE
3 pm. 8th August 2018 (Org.)

x/y Cut at k=13 (z=27.0000 m)



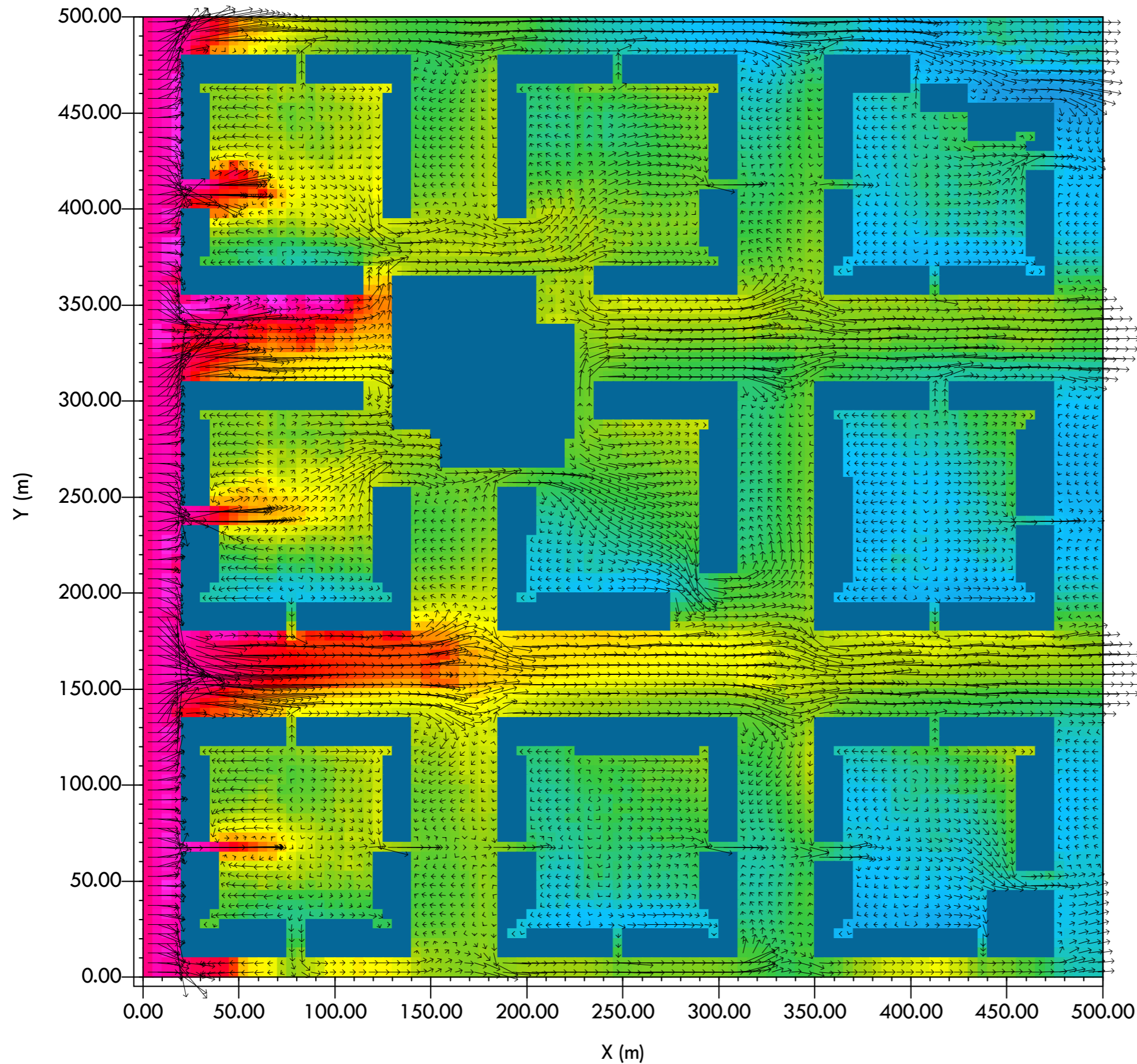
Air Temperature



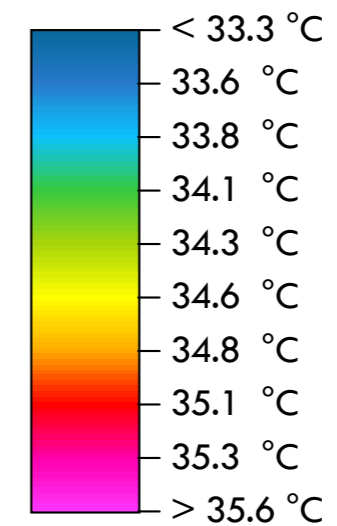
Min: 33.4 °C
Max: 34.1 °C

Velká Ohrada, Prague, CZE
3 pm. 8th August 2018 (New)

x/y Cut at k=0 (z=1.0000 m)



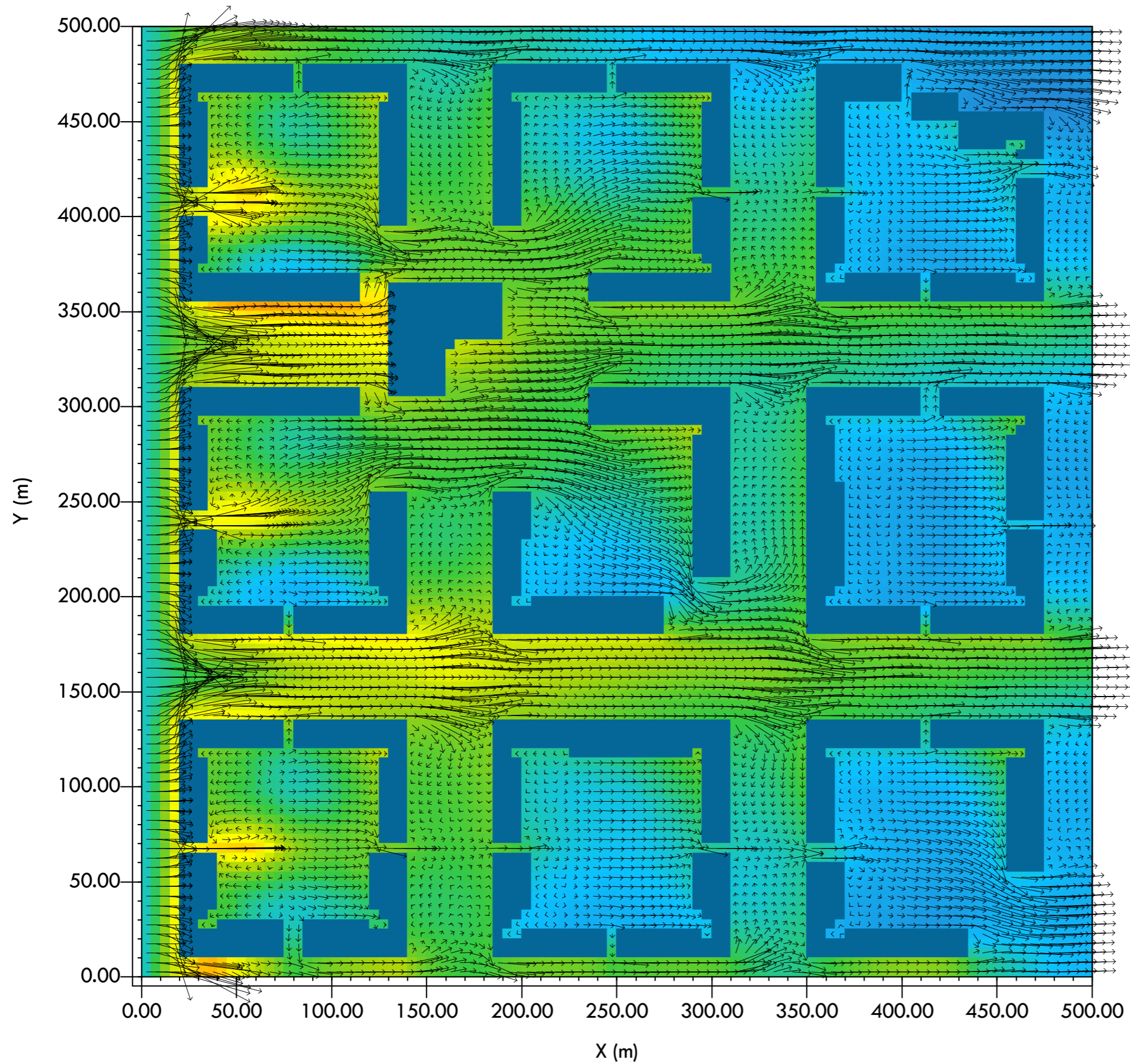
Air Temperature



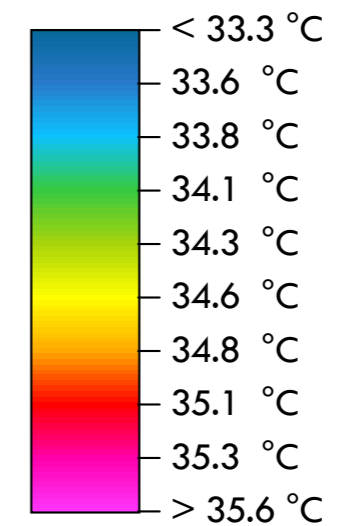
Min: 33.7 °C
Max: 35.6 °C

Velká Ohrada, Prague, CZE
3 pm. 8th August 2018 (New)

x/y Cut at k=5 (z=11.0000 m)



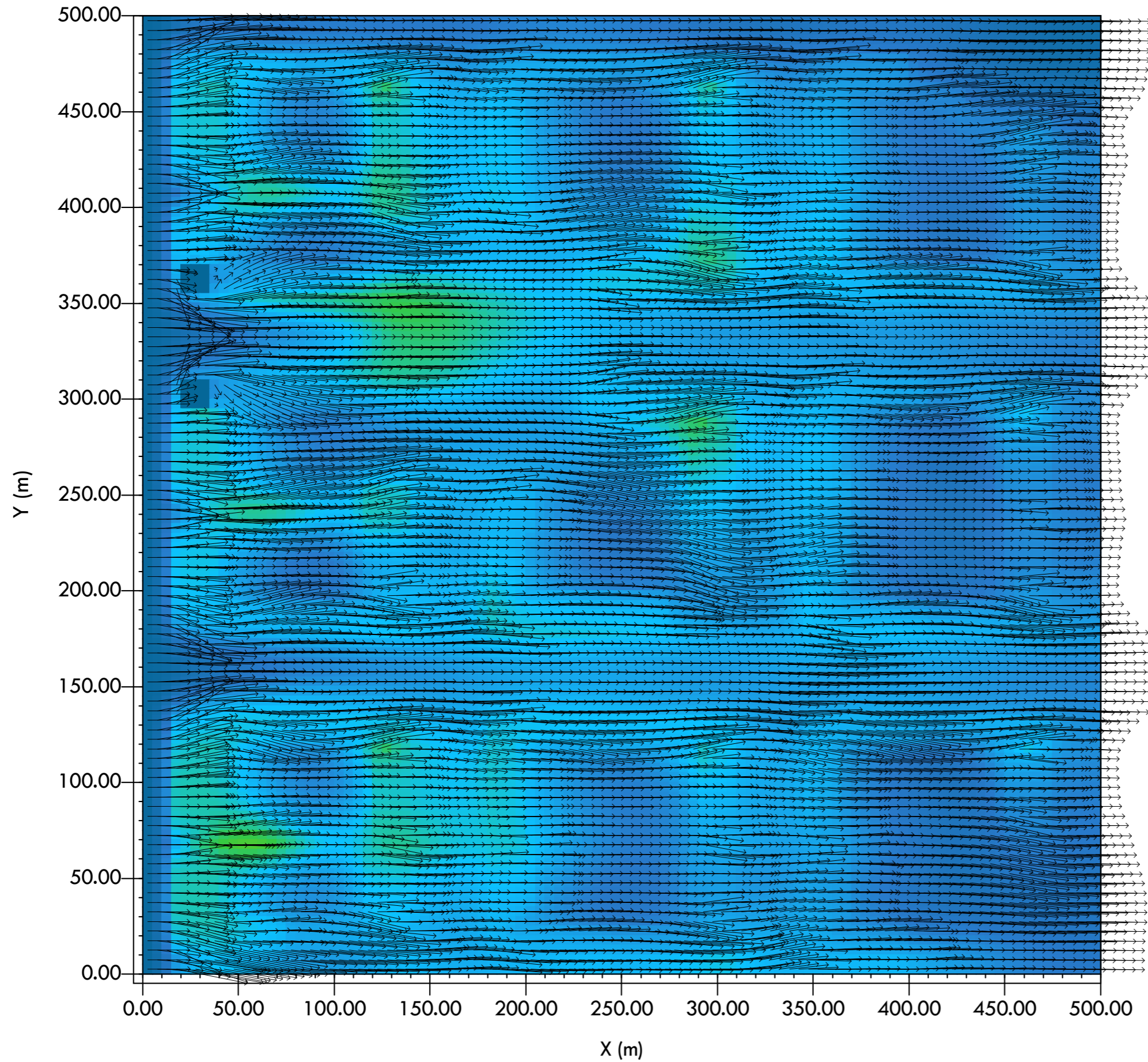
Air Temperature



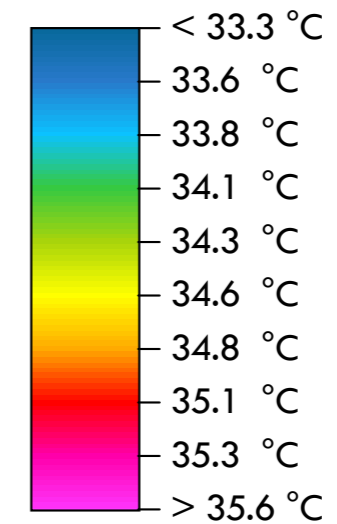
Min: 33.6 °C
Max: 34.9 °C

Velká Ohrada, Prague, CZE
3 pm. 8th August 2018 (New)

x/y Cut at k=13 (z=27.0000 m)



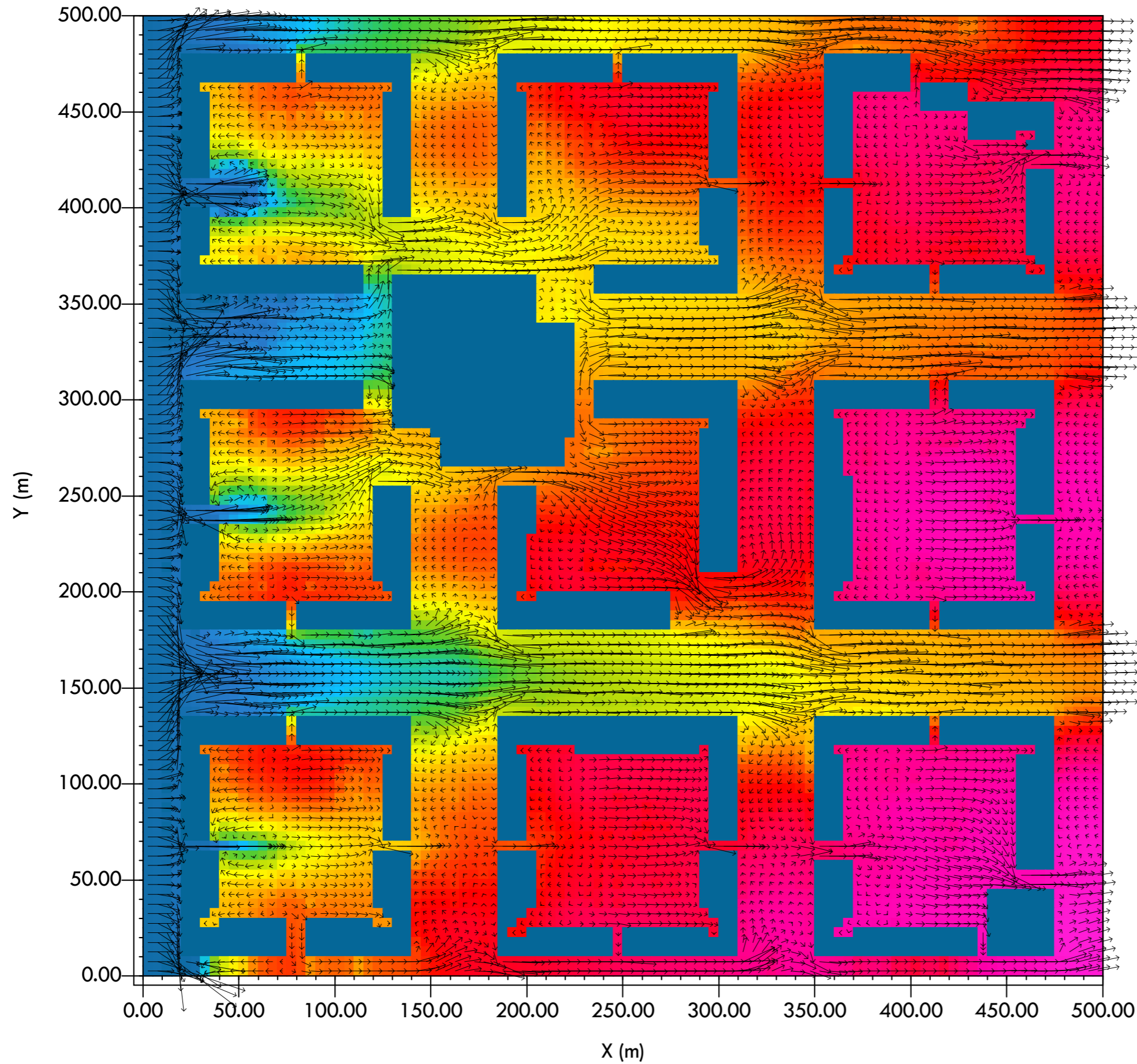
Air Temperature



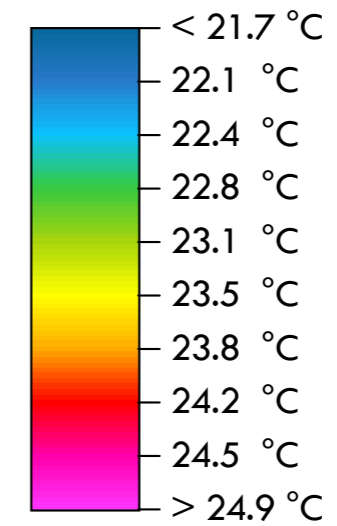
Min: 33.3 °C
Max: 34.1 °C

Velká Ohrada, Prague, CZE
5 am. 8th August 2018 (Org.)

x/y Cut at k=0 (z=1.0000 m)



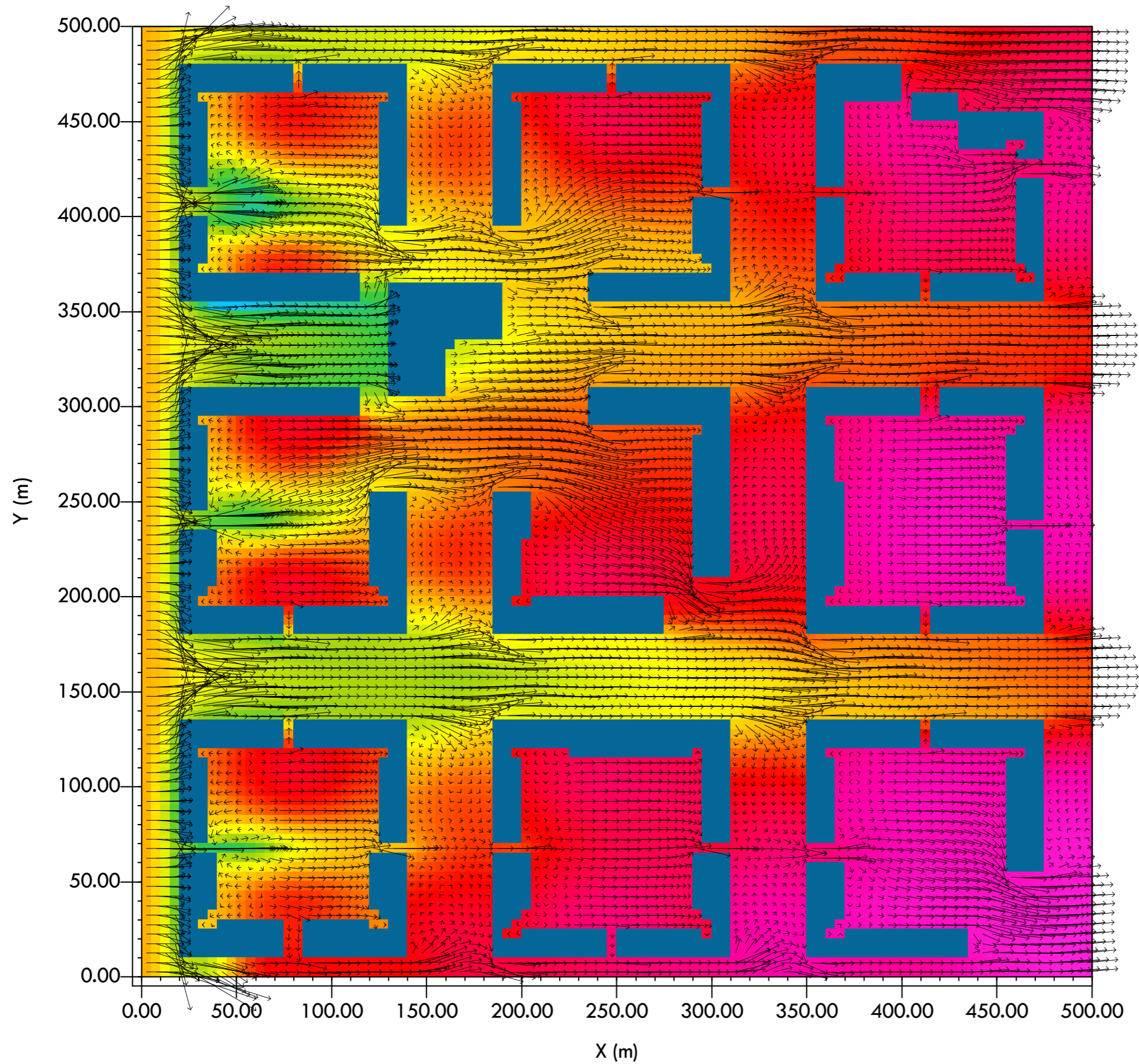
Air Temperature



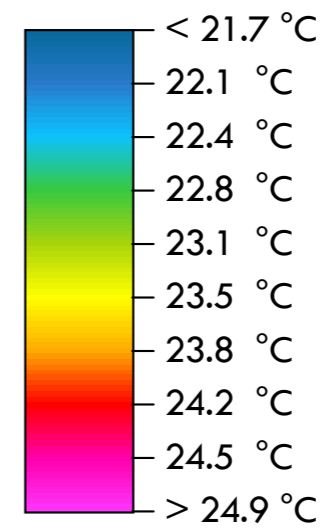
Min: 21.7 °C
Max: 24.7 °C

Velká Ohrada, Prague, CZE
5 am. 8th August 2018 (Org.)

x/y Cut at k=5 (z=11.0000 m)



Air Temperature

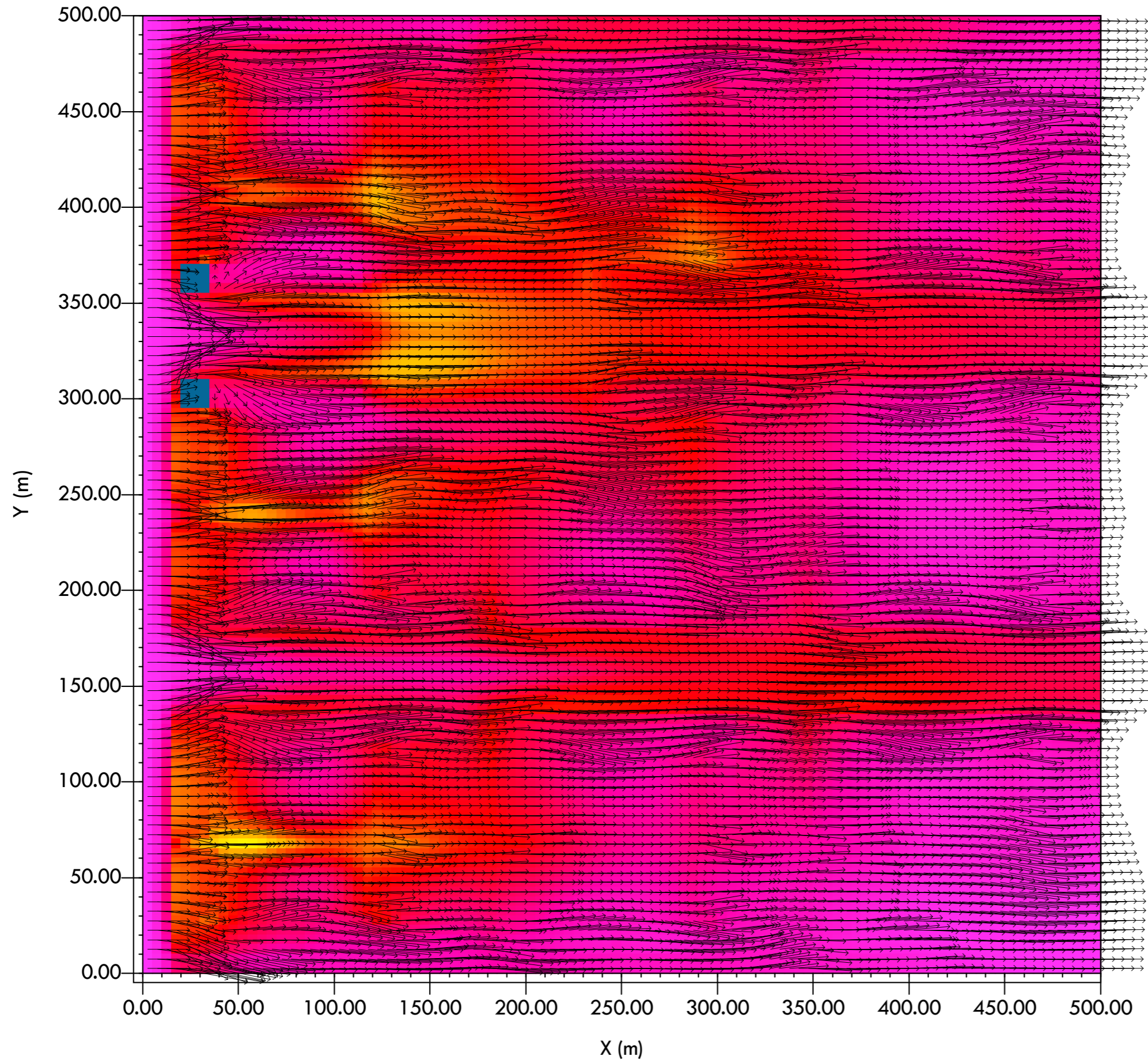


Min: 22.4 °C

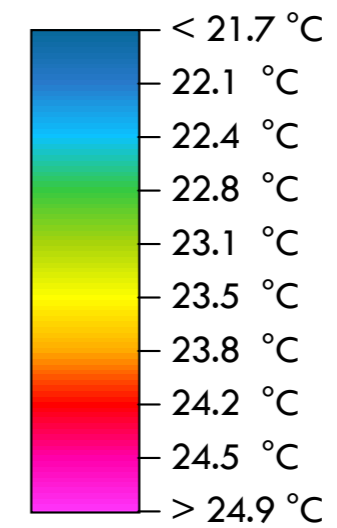
Max: 24.8 °C

Velká Ohrada, Prague, CZE
5 am. 8th August 2018 (Org.)

x/y Cut at k=13 (z=27.0000 m)



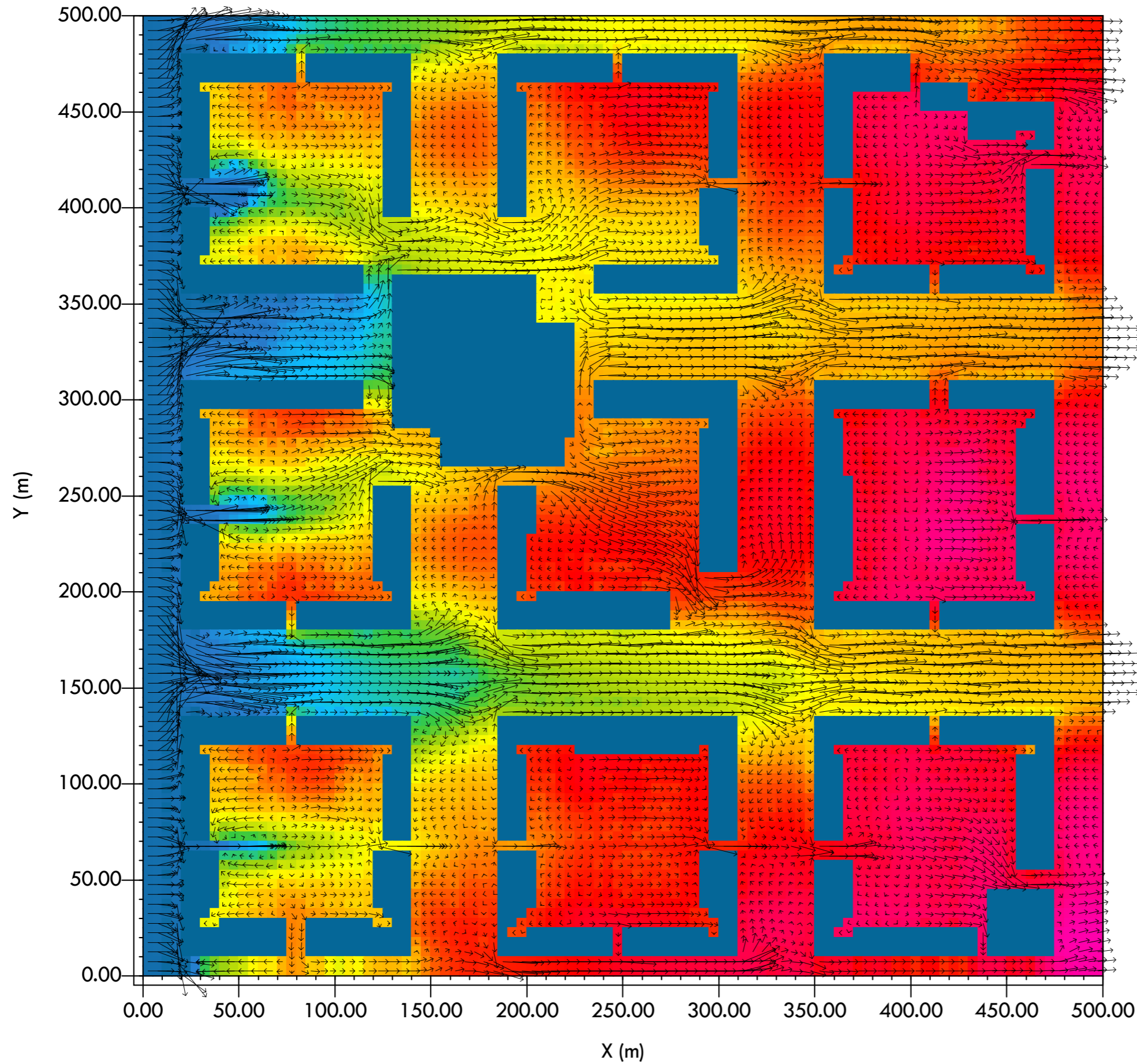
Air Temperature



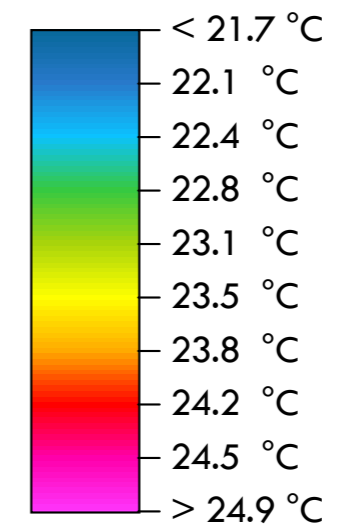
Min: 23.5 °C
Max: 24.9 °C

Velká Ohrada, Prague, CZE
5 am. 8th August 2018 (New)

x/y Cut at k=0 (z=1.0000 m)



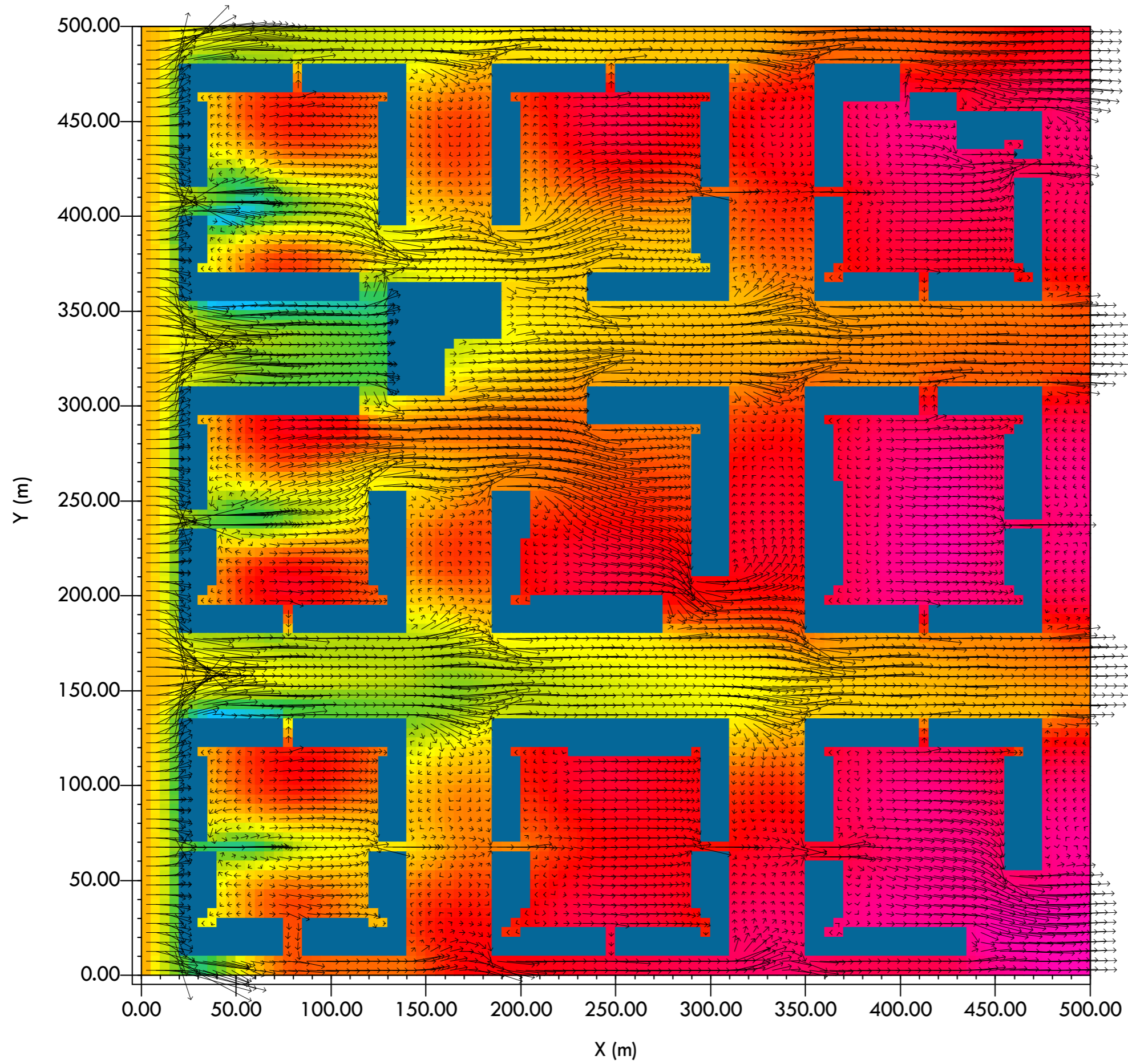
Air Temperature



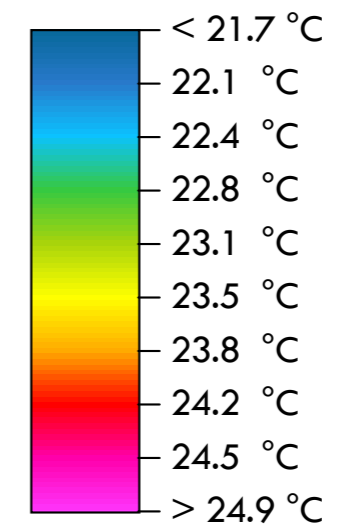
Min: 21.7 °C
Max: 24.6 °C

Velká Ohrada, Prague, CZE
5 am. 8th August 2018 (New)

x/y Cut at k=5 (z=11.0000 m)



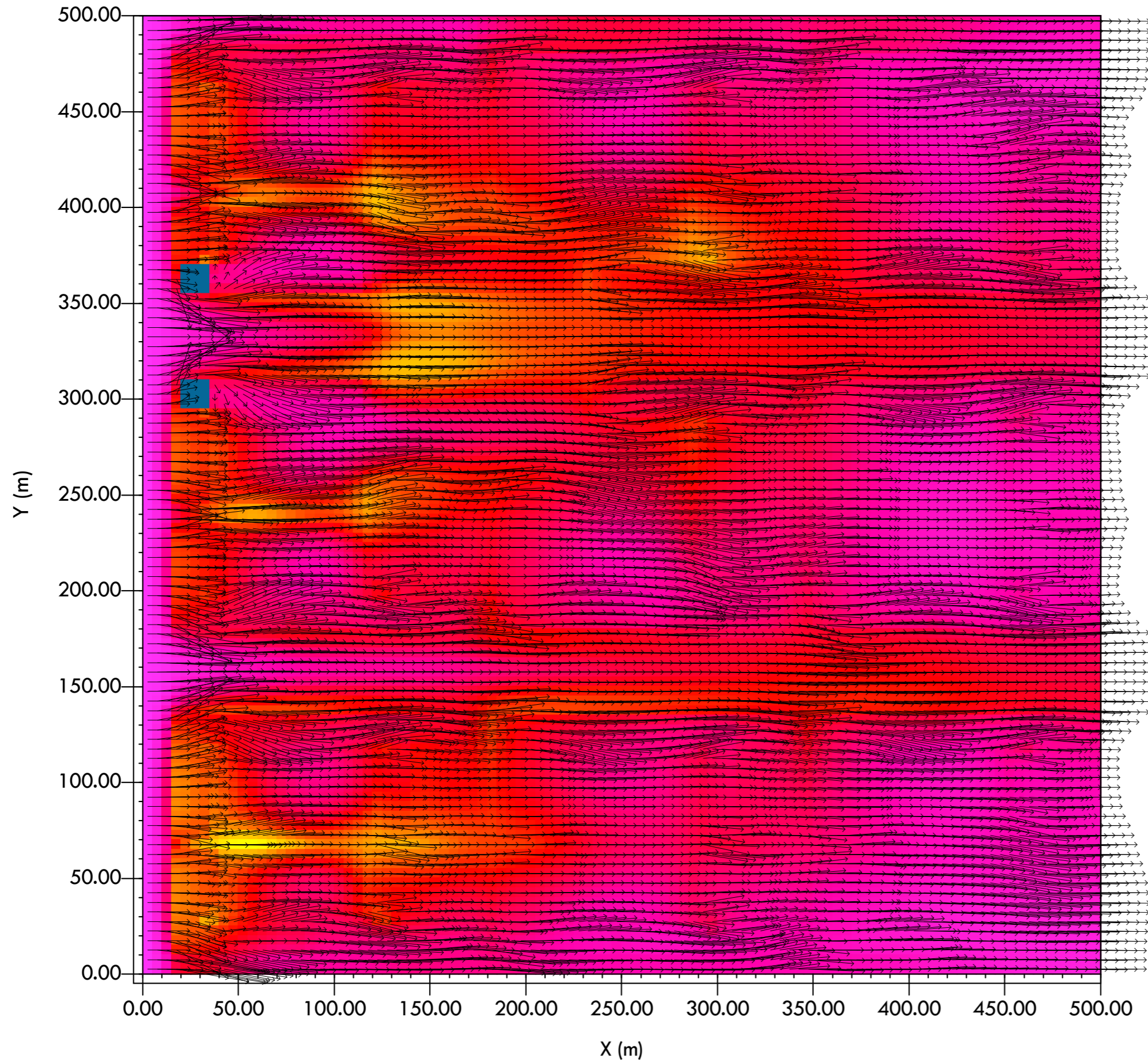
Air Temperature



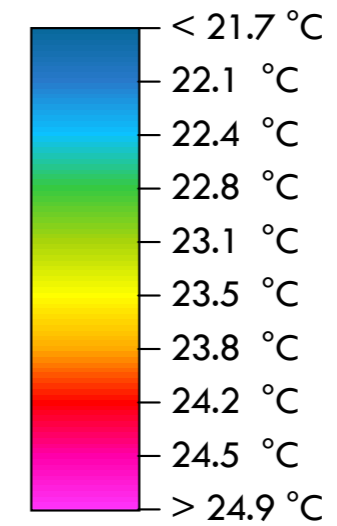
Min: 22.4 °C
Max: 24.6 °C

Velká Ohrada, Prague, CZE
5 am. 8th August 2018 (New)

x/y Cut at k=13 (z=27.0000 m)



Air Temperature



Min: 23.5 °C
Max: 24.9 °C