Assessing urban climate model results with crowd-sourced data

Comparison Muklimo_3 - Netatmo
- Often similar pattern as for conventional stations:
- Slight underestimation of temperature in the afternoon + overestimation at night, large spread
Assessing urban climate model results with crowd-sourced data – spatial patterns

Night: Spatial pattern similar
→ No effect of direct sunlight and shade
→ UHI visible

Day: Spatial pattern not similar
→ Strong variation at small-scale (sun / shade)
→ Better to compare with higher resolution model?!

Stations with highest temperature values (above 75th percentile)
Stations with temperature values between the 50th and 75th percentile
Stations with values between the 25th and 50th percentile
Stations with lowest temperature values (below 25th percentile)