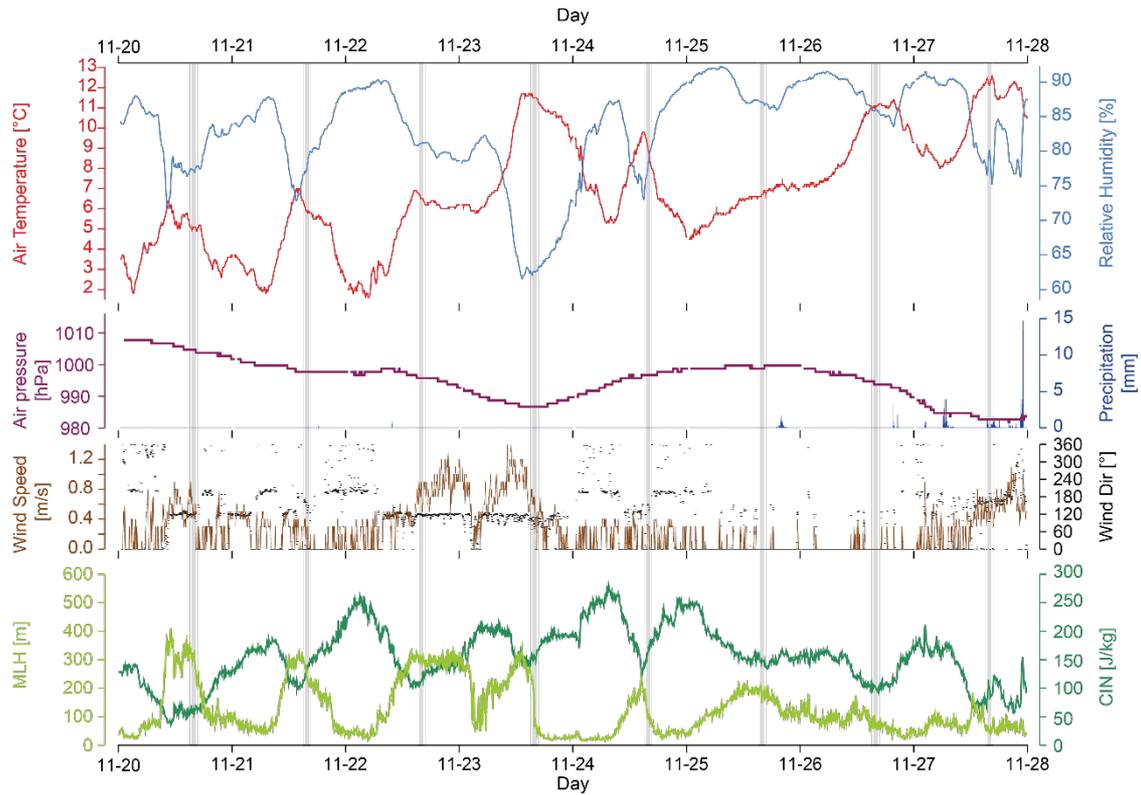
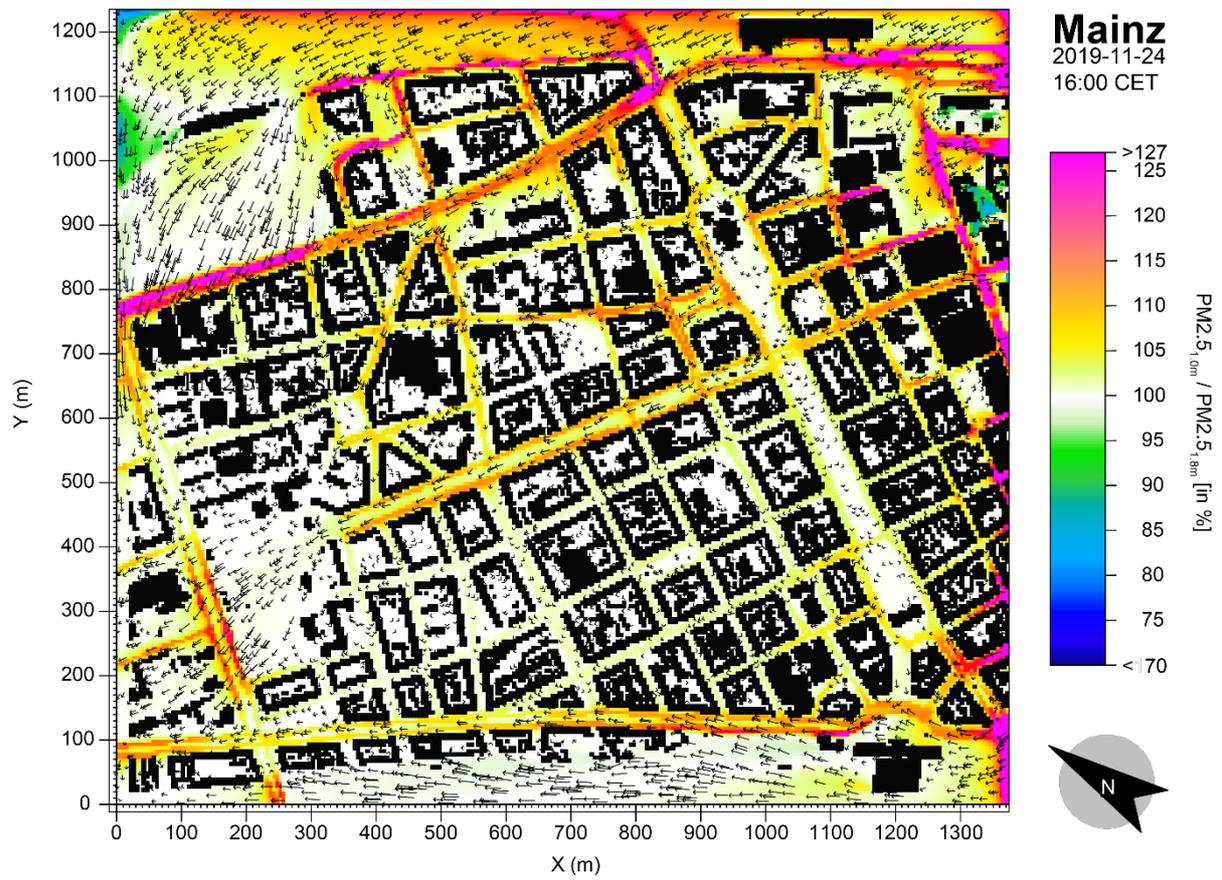


# 1 Supplementary Material



2

3 **Fig. S1** weather conditions during measurement period. Grey bars represent daily measurement periods. Air temperature,  
4 relative humidity and air pressure were measured at 2m a.g.l. at the measurement station Mainz-Zitadelle, wind speed and  
5 direction 10m a.g.l and precipitation 2m a.g.l. at the measurement station Mainz-Mombach. The mixing layer height (MLH)  
6 and the convective inhibition (CIN) were measured with a radiometer at the headquarter of the state office for environment in  
7 Mainz.



8

9 **Fig. S2** Simulated relative differences distribution of PM2.5-concentrations between 1.0m and 1.8m in the study area.