

Data for the urban case scenario belonging to paper:

**Description and evaluation of the community aerosol dynamics model MAFOR v2.0**

*by:*

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**Content of urban case zip:**

**experiment\_data**

Contains the post-processed experimental data measured by the mobile laboratory Sniffer for plotting of Figures 8 and 10-13 in the published article.

**fmi-mpp**

Contains the meteorological data file computed with the meteorological preprocessor MPP-FMI for the selected day.

**Inmom-dc**

Contains a documentation of the 'Log Normal Method Of Moments – Diffusion Coagulation' (LNMOM-DC) parameterization scheme and its application in the "Urban case" scenario.

**model\_data**

Contains the input data and output data for the runs with the MAFOR model, output data from AEROFOR and SALSA. It also contains the post-processing scripts for the MAFOR output and the GNU Octave scripts for plotting Figures 10-14 in the published article.

**openair**

Contains the R script to evaluate the statistical performance for the model-observation comparison using the modStats function of the openair R package (Carslaw and Ropkins, 2012, doi:10.1016/j.envsoft.2011.09.008).

**salsa\_driver**

Contains a simple driver for the SALSA stand-alone model written in Fortran. This driver models the dispersion and emission of aerosol particles and gases and then calls SALSA functions for aerosol processes.

**setup**

Contains the initial conditions and meteorological input data applied by all aerosol process models in the simulation of the “Urban Case” scenario and is partly shown in Table 4 of the published article.