**Model runs with the MAFOR model for the Urban Case**

Copy the mafor executable to the subfolder input. The subfolder input contains all input files for the runs with the MAFOR model.

**Model run for the model inter-comparison**

Run with all processes:

cp sensitiv.dat.ALL sensitiv.dat

and execute mafor.exe

move results to subfolder output\_ALL

Extract necessary outputs for the comparison:

Open GNU Octave

Execute the scripts in subfolder xtractout

Extracted output is written to folder model\_data/outputs

Prepare number size distribution data for openair:

Change to folder model\_data/postproc

Open GNU Octave

Execute the scripts syncsize\_pointA.m, syncsize\_pointB.m, syncsize\_pointC.m   
and syncsize\_pointD.m

**Model runs for the aerosol process contribution**

Run with coagulation excluded:

cp sensitiv.dat.COAG sensitiv.dat

and execute mafor.exe

Run with condensation/evaporation excluded:

cp sensitiv.dat.COND sensitiv.dat

and execute mafor.exe

Run with dry deposition excluded:

cp sensitiv.dat.DDEP sensitiv.dat

and execute mafor.exe

Run with dilution only (no aerosol processes):

cp sensitiv.dat.DILU sensitiv.dat

and execute mafor.exe

**Model run for the sensitivity case SENS5: EF(SVOC)x50**

Run SENS5:

cp sensitiv.dat.ALL sensitiv.dat

cp inchem.dat.sens5 inchem.dat

execute mafor.exe

move results to subfolder output\_SENS5