

# Preliminary results from simulations of high PM level episodes in January-April 2003

- Case
  - Germany, January-April 2003
  - Some major PM episodes were observed
- Goal of the study
  - To examine the abilities and limitations of US EPA Models 3 system
  - To outline the influence of mesoscale meteorology on air pollution transport

# Modeling tools

- Meteorology
  - MM5 (BCs: NCEP Global Analyses)
  - MCIP preprocessor
- Emissions
  - E-CMAQ - based on TNO emissions inventory, speciation and temporal profiles according to US EPA's methodology
- CMAQ Chemical Transport Model v4.6

# Simulations

- MM5
  - 3 nested domains 90km,30km(two-way), 10km(one-way)
  - 23 sigma levels up to 100hPa
- CMAQ
  - 30km, 10km(one-way nest)
- Current stage
  - antropogenic emissions (still no biogenic), simulations done until end of March

# Description of meteorological situation and results

SEE POSTER

Thank You!