European aerosol phenomenology - 8:
Harmonised source apportionment of organic aerosol using 22 Year-long ACSM/AMS datasets
Chen et al., 2022.

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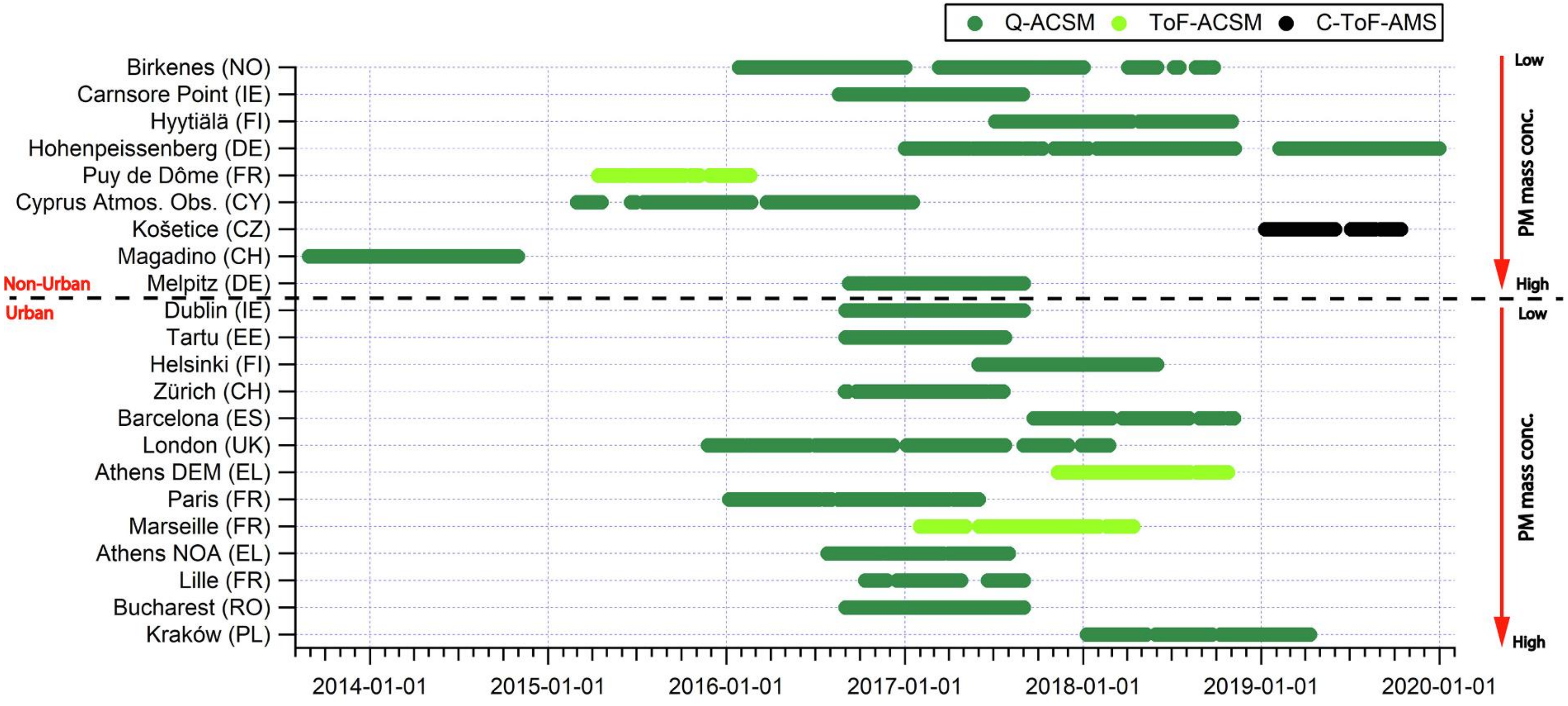
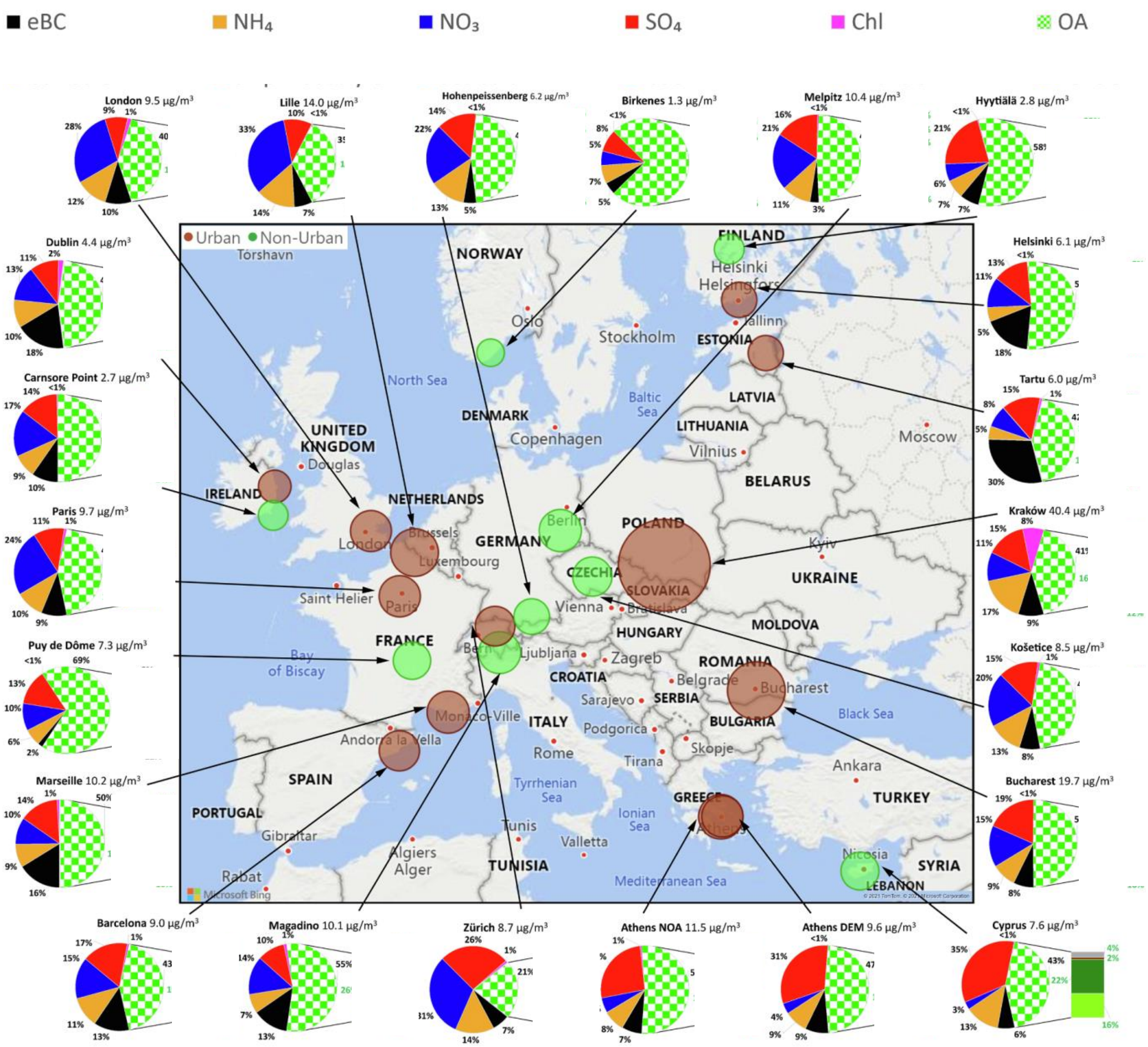
PAUL SCHERRER INSTITUT
PSI

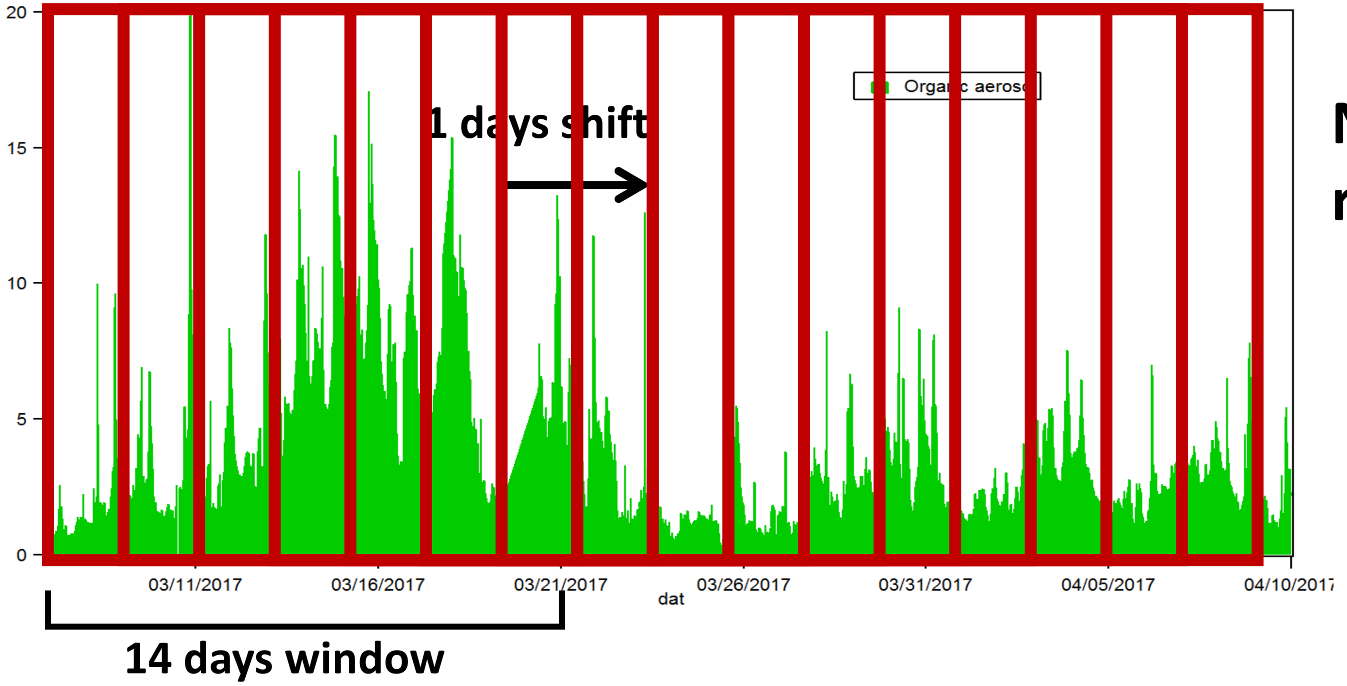
Measurement period



PM1 composition in Europe



Rolling window approach (SoFi Pro)

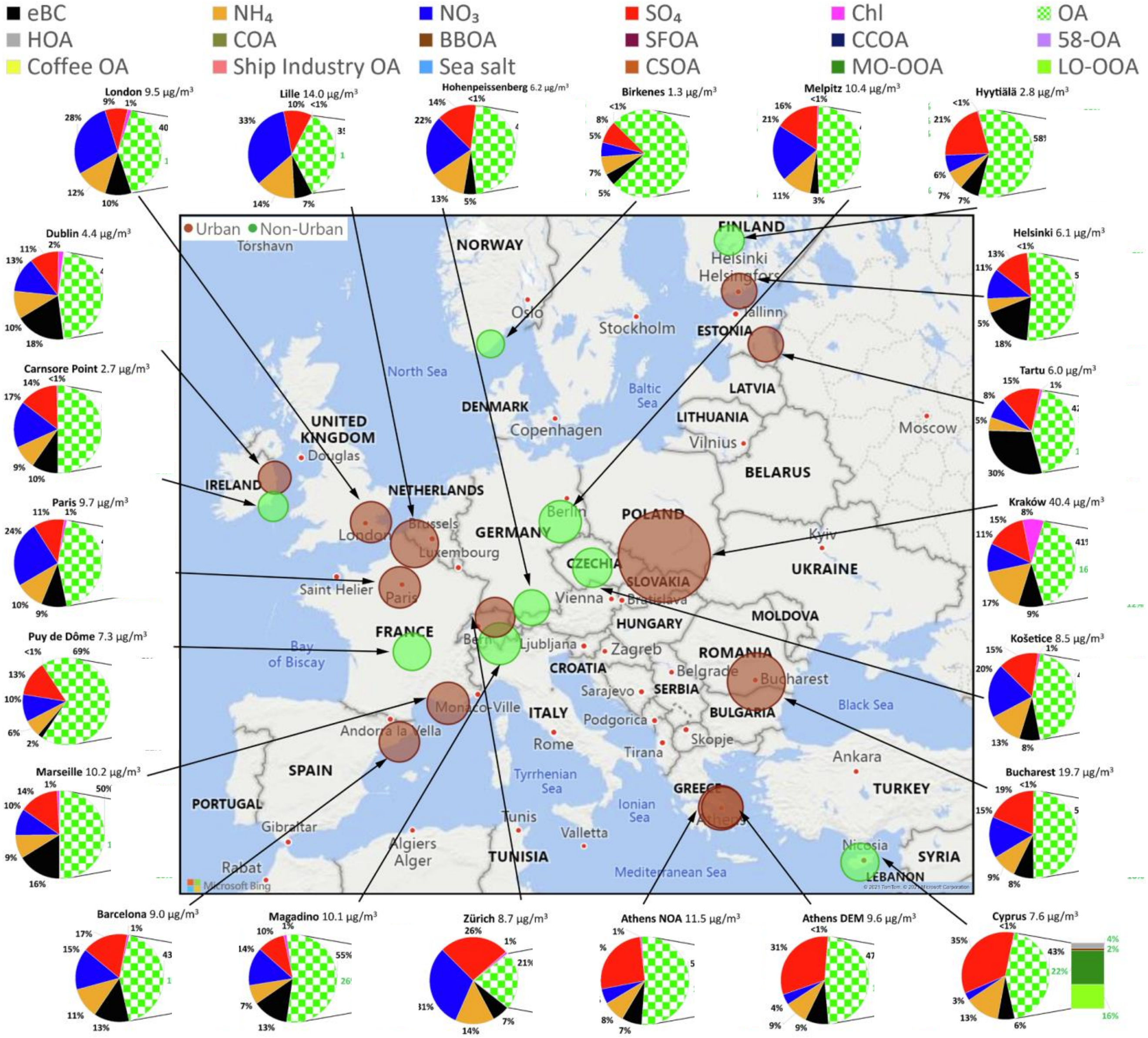


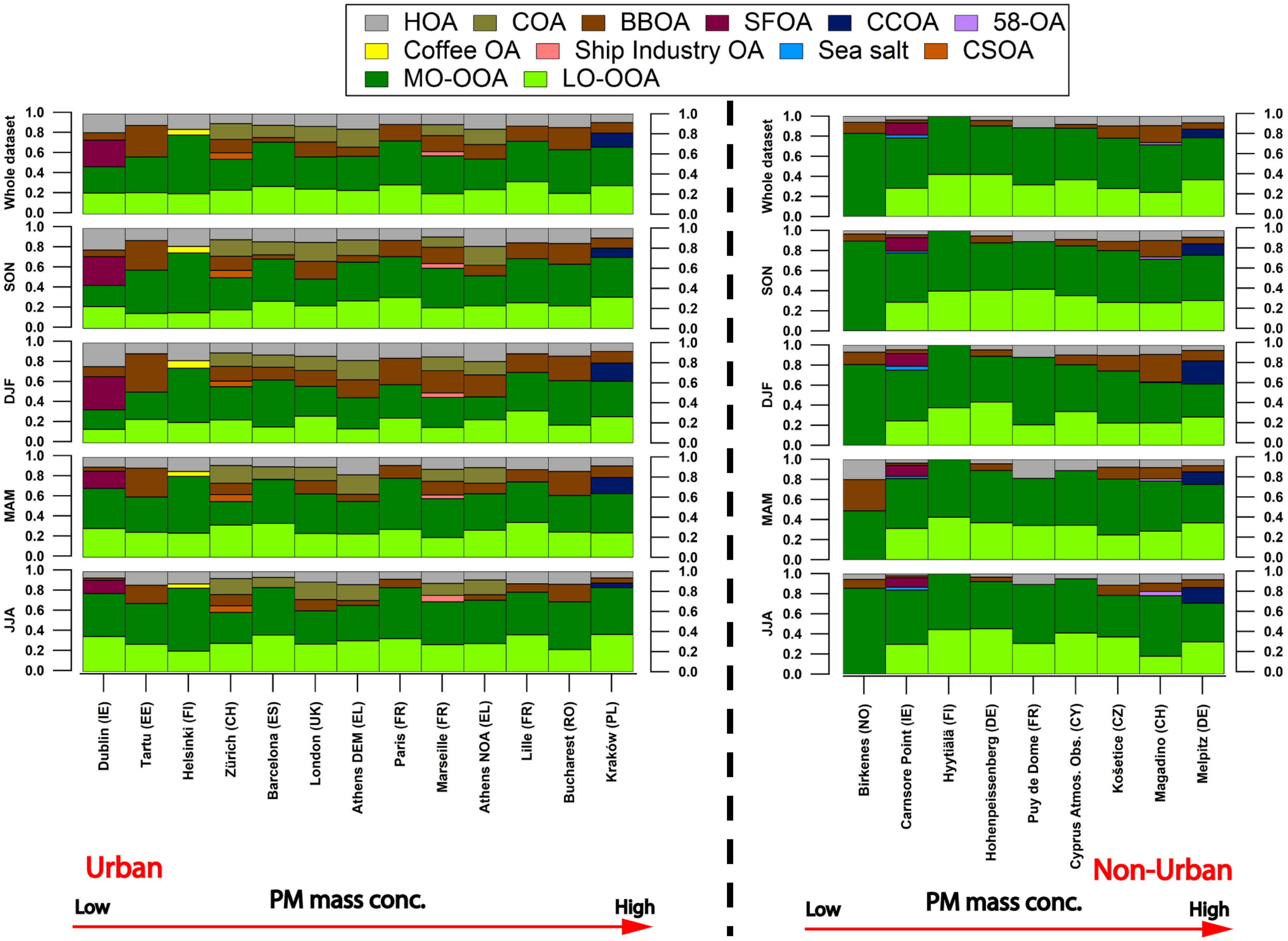
Number of runs: 9

Shift and window parameters were optimized by *Canonaco et al. (2021)*

1 window **= 1 PMF run**

PM1 composition in Europe
+
source of the Organic Aerosol




HOA COA BBOA SFOA CCOA 58-OA
Coffee OA Ship Industry OA Sea salt CSOA
MO-OOA LO-OOA
Whole dataset
SON
DJF
MAM
JJA
Dublin (IE)
Tartu (EE)
Helsinki (FI)
Zürich (CH)
Barcelona (ES)
London (UK)
Athens DEM (EL)
Paris (FR)
Marseille (FR)
Athens NOA (EL)
Lille (FR)
Bucharest (RO)
Kraków (PL)
Birkenes (NO)
Carnsore Point (IE)
Hyytiälä (FI)
Hohenpeissenberg (DE)
Puy de Dome (FR)
Cyprus Atmos. Obs. (CY)
Košetice (CZ)
Magadino (CH)
Melpitz (DE)
Urban
Non-Urban
Low
PM mass conc.
High

Aerosol Chemical Speciation Monitor data: available at as least raw data

➔ epidemiological analyses?