SUPPLEMENTARY INFORMATION

RECEPTOR MODELLING OF SECONDARY PARTICULATE MATTER AT U.K. SITES

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Figure S1: Monthly median concentrations of chloride, nitrate, sulphate, organic carbon, and elemental carbon from 2006 to 2010 at Harwell. The interquartile range is also presented.
Figure S2: Evolution of the monthly concentration of chloride, nitrate, sulphate, OC, SOC and EC and of the monthly temperature (in grey) at Harwell from 2006 to 2010.
Cold season | Warm season
---|---
below 0.7 µg/m³ | 0.7 – 1.5 µg/m³
1.5 – 2.5 µg/m³ | 2.5 – 3 µg/m³
above 3 µg/m³

Figure S3: Concentration field map of Chloride applied to Cold and Warm seasons data

Cold season | Warm season
---|---
below 1.5 µg/m³ | 1.5 – 2 µg/m³
2 – 4 µg/m³ | 4 – 5 µg/m³
above 5 µg/m³

Figure S4: Concentration field map of Nitrate applied to Cold and Warm seasons data
Cold season      Warm season

- below 0.1 µg/m³
- 0.1 – 0.5 µg/m³
- 0.5 – 1 µg/m³
- 1 – 2 µg/m³
- above 2 µg/m³ (cold), 1.2 µg/m³ (warm)

Figure S5: Concentration field map of EC applied to Cold and Warm seasons data

Cold season      Warm season

- below 1.5 µg/m³
- 1.5 – 2 µg/m³
- 2 – 4 µg/m³
- 4 – 5 µg/m³
- above 5 µg/m³ (cold), 4.6 µg/m³ (warm)

Figure S6: Concentration field map of Sulphate applied to Cold and Warm seasons data
Cold season

- below 2 µg/m³
- 2 – 3 µg/m³
- 3 – 4 µg/m³
- 4 – 5 µg/m³
- above 5 µg/m³ (cold), 4.9 µg/m³ (warm)

Warm season

- below 2 µg/m³
- 2 – 3 µg/m³
- 3 – 4 µg/m³
- 4 – 5 µg/m³
- above 5 µg/m³ (cold), 4.9 µg/m³ (warm)

Figure S7: Concentration field map of OC applied to Cold and Warm seasons data
Figure S8: Concentration field maps of EC (a) and Nitrate (b) computed without data associated with trajectories that have crossed the London conurbation or associated with winds blowing from the A34 highway.