

SUPPLEMENTARY INFORMATION

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

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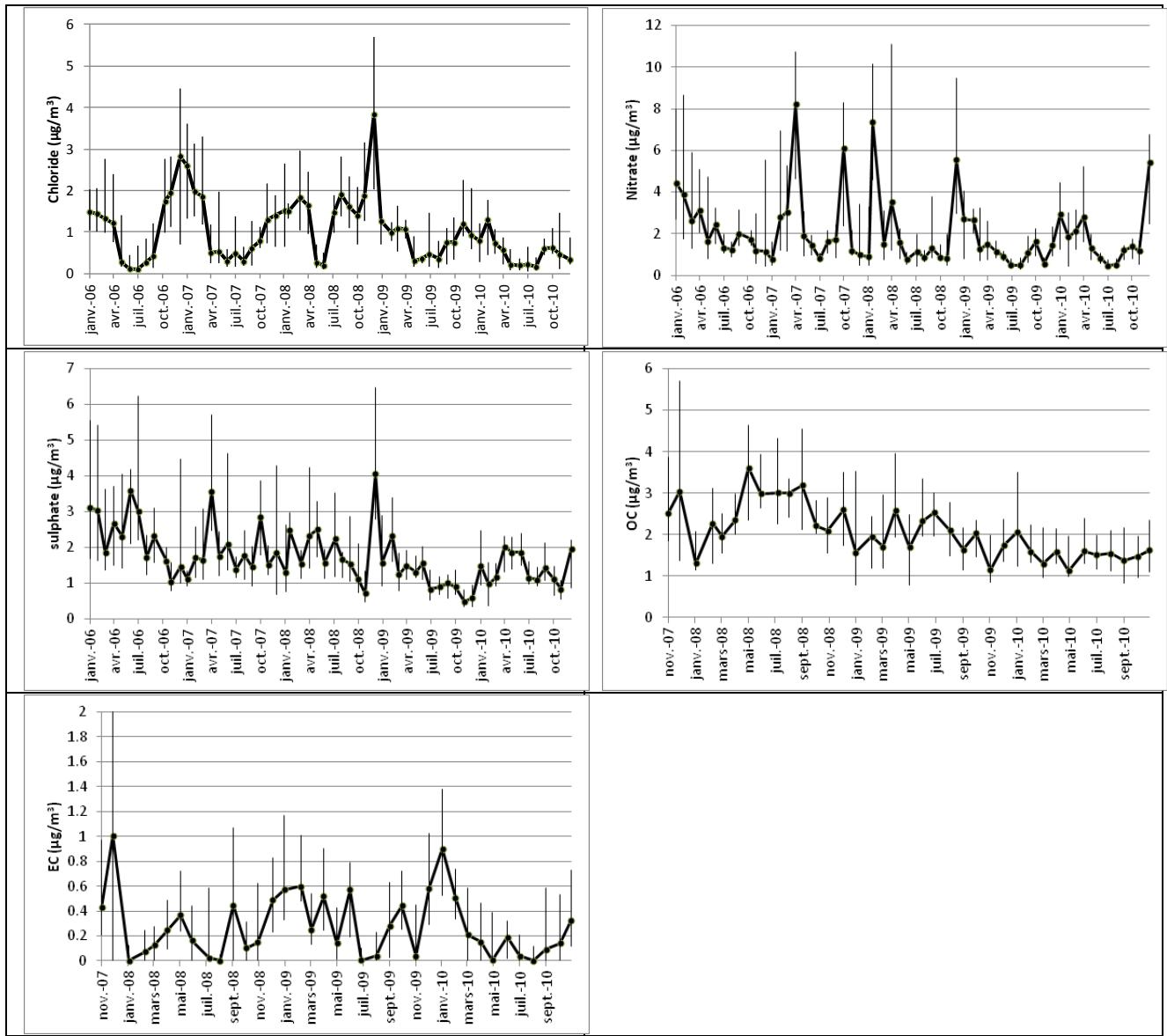


Figure S1: Monthly median concentrations of chloride, nitrate, sulphate, organic carbon, and elemental carbon from 2006 to 2010 at Harwell. The interquartile range is also presented

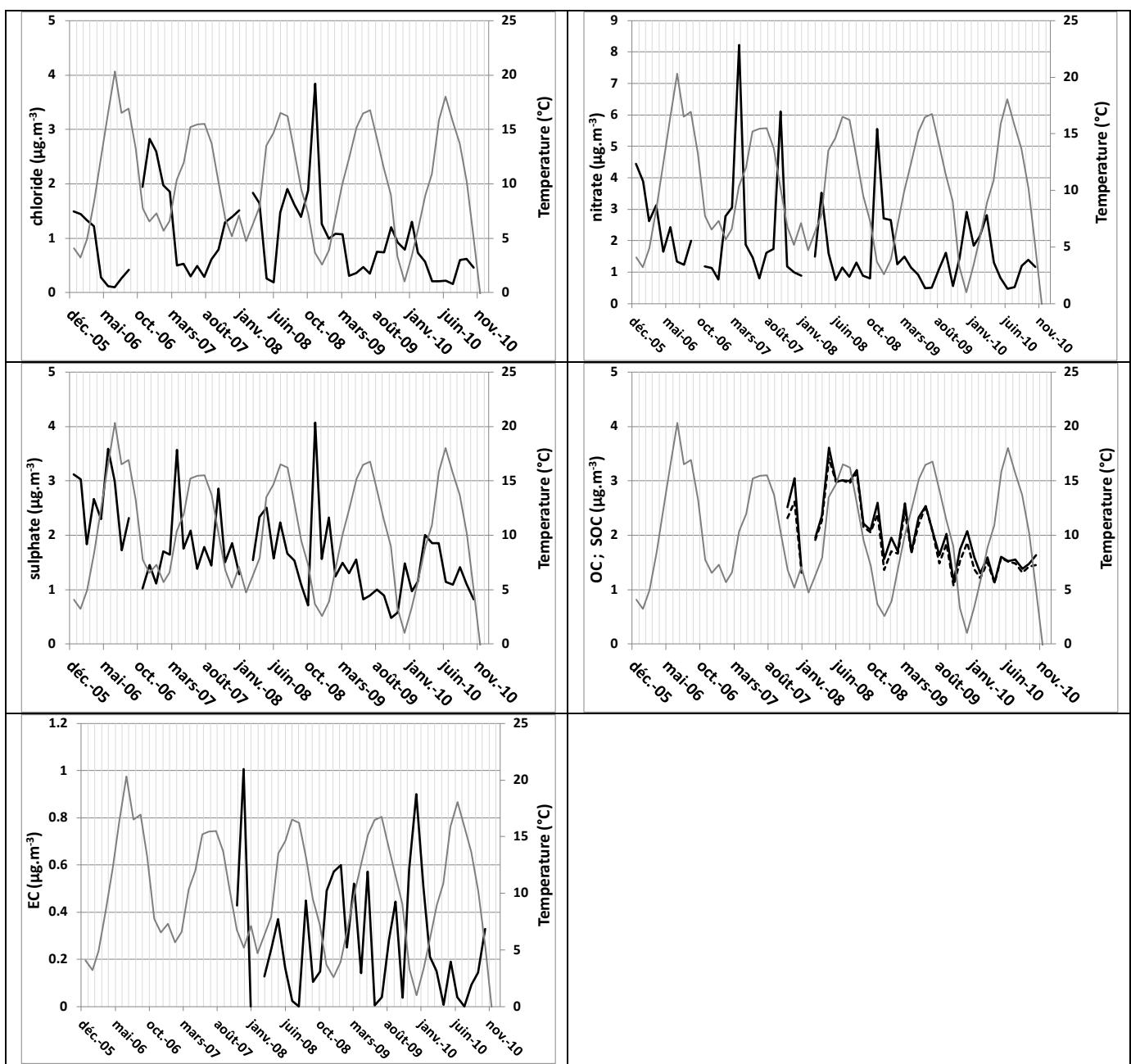


Figure S2: Evolution of the monthly concentration of chloride, nitrate, sulphate, OC, SOC and EC and of the monthly temperature (in grey) at Harwell from 2006 to 2010

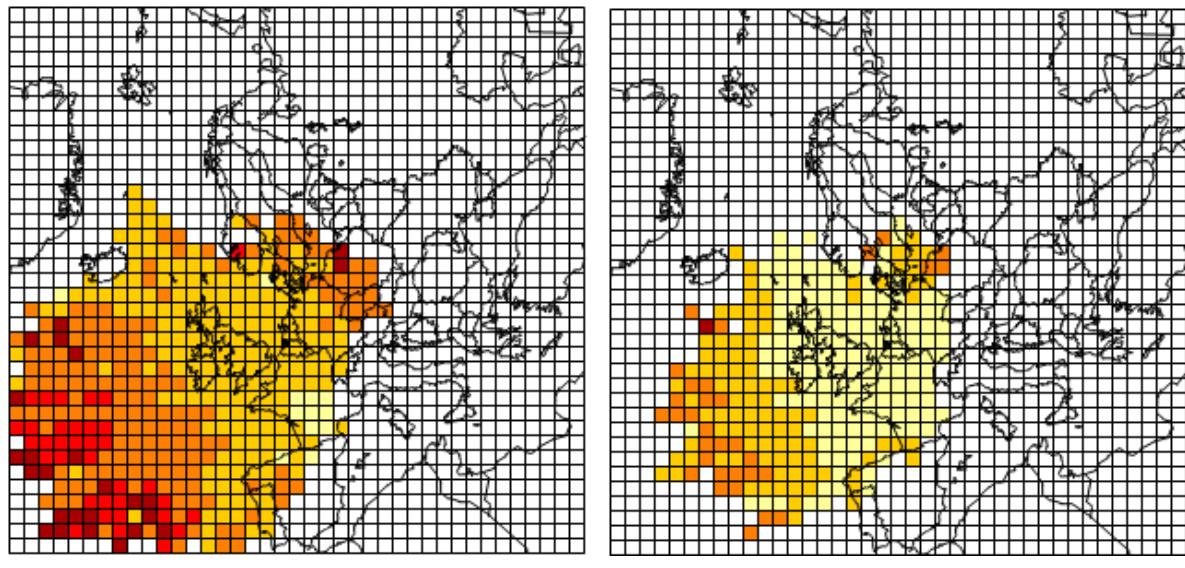


Figure S3: Concentration field map of Chloride applied to Cold and Warm seasons data

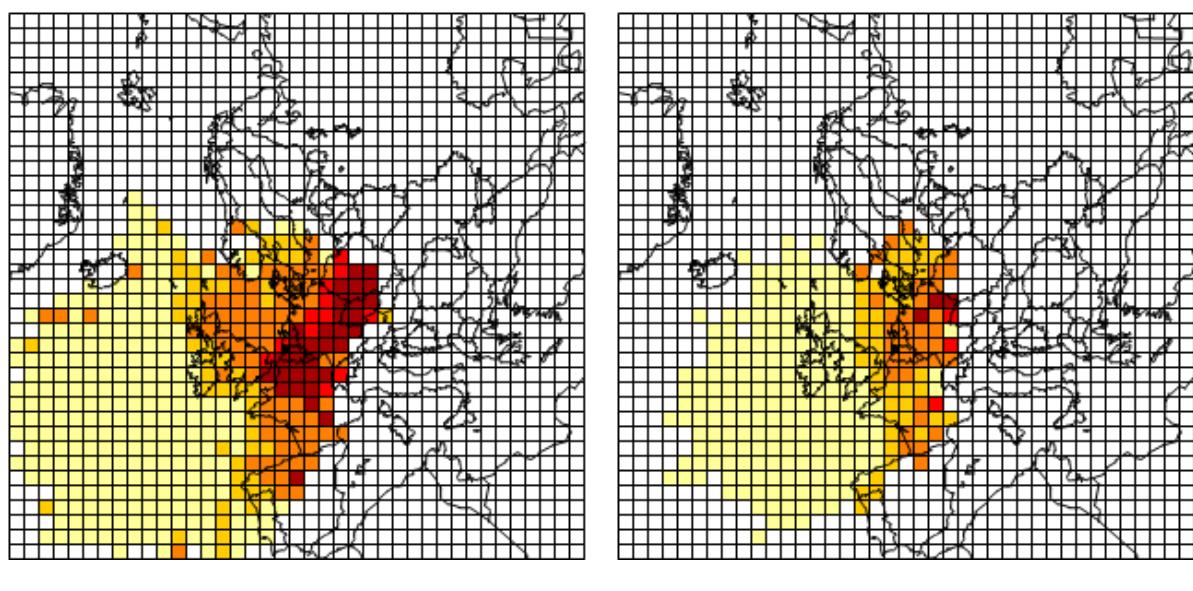
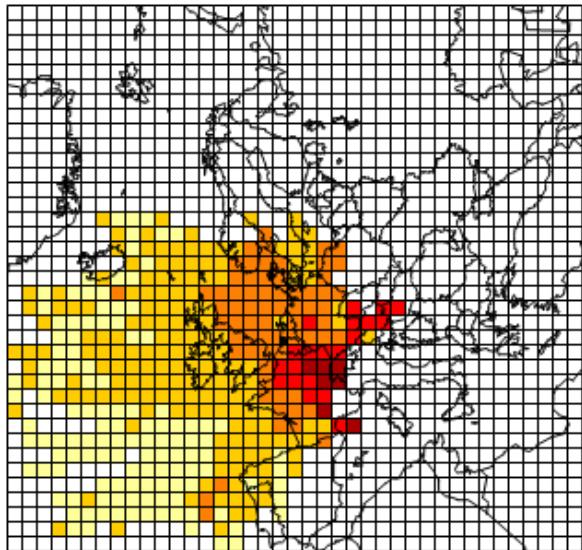
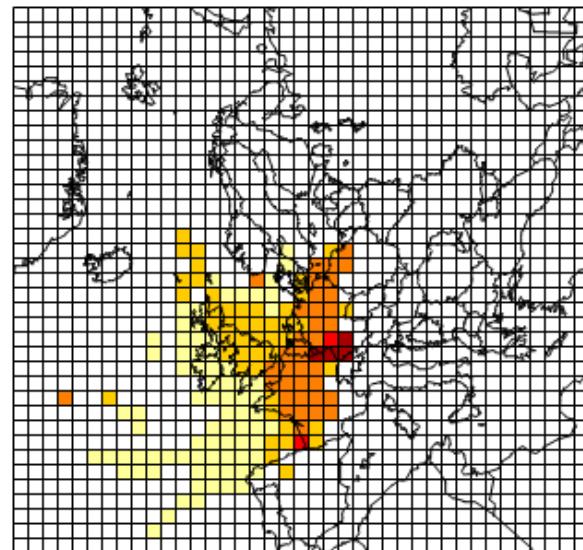


Figure S4: Concentration field map of Nitrate applied to Cold and Warm seasons data



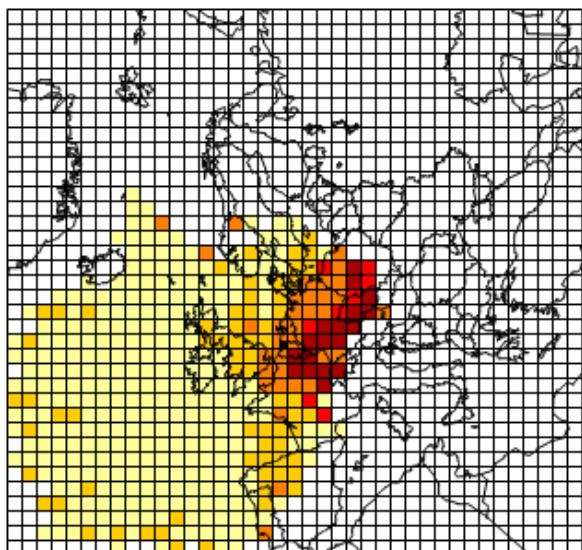
Cold season



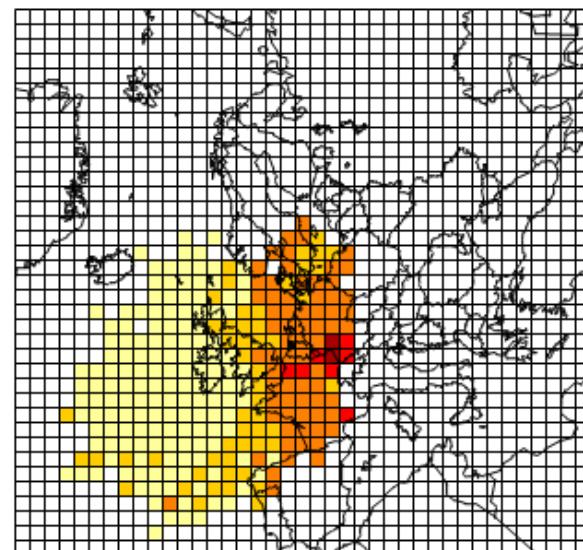
Warm season

Legend: □ below 0.1 $\mu\text{g}/\text{m}^3$ □ 0.1 – 0.5 $\mu\text{g}/\text{m}^3$ □ 0.5 – 1 $\mu\text{g}/\text{m}^3$ □ 1 – 2 $\mu\text{g}/\text{m}^3$ □ above 2 $\mu\text{g}/\text{m}^3$ (cold), 1.2 $\mu\text{g}/\text{m}^3$ (warm)

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



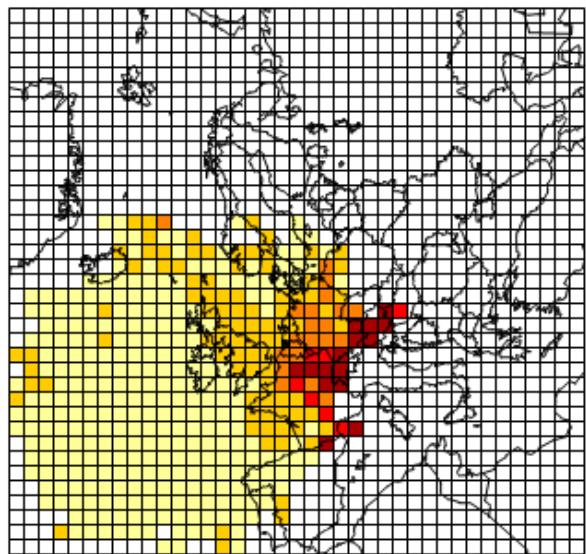
Cold season



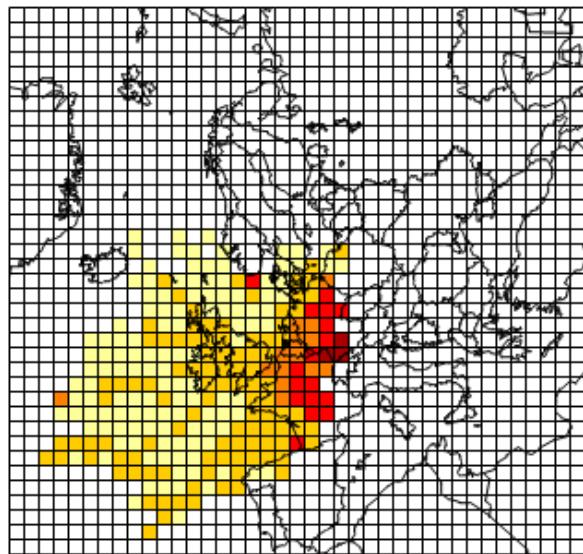
Warm season

Legend: □ below 1.5 $\mu\text{g}/\text{m}^3$ □ 1.5 – 2 $\mu\text{g}/\text{m}^3$ □ 2 – 4 $\mu\text{g}/\text{m}^3$ □ 4 – 5 $\mu\text{g}/\text{m}^3$ □ above 5 $\mu\text{g}/\text{m}^3$ (cold), 4.6 $\mu\text{g}/\text{m}^3$ (warm)

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



Cold season



Warm season

Legend:

- below 2 $\mu\text{g}/\text{m}^3$
- 2 – 3 $\mu\text{g}/\text{m}^3$
- 3 – 4 $\mu\text{g}/\text{m}^3$
- 4 – 5 $\mu\text{g}/\text{m}^3$
- above 5 $\mu\text{g}/\text{m}^3$ (cold), 4.9 $\mu\text{g}/\text{m}^3$ (warm)

Figure S7: Concentration field map of OC applied to Cold and Warm seasons data

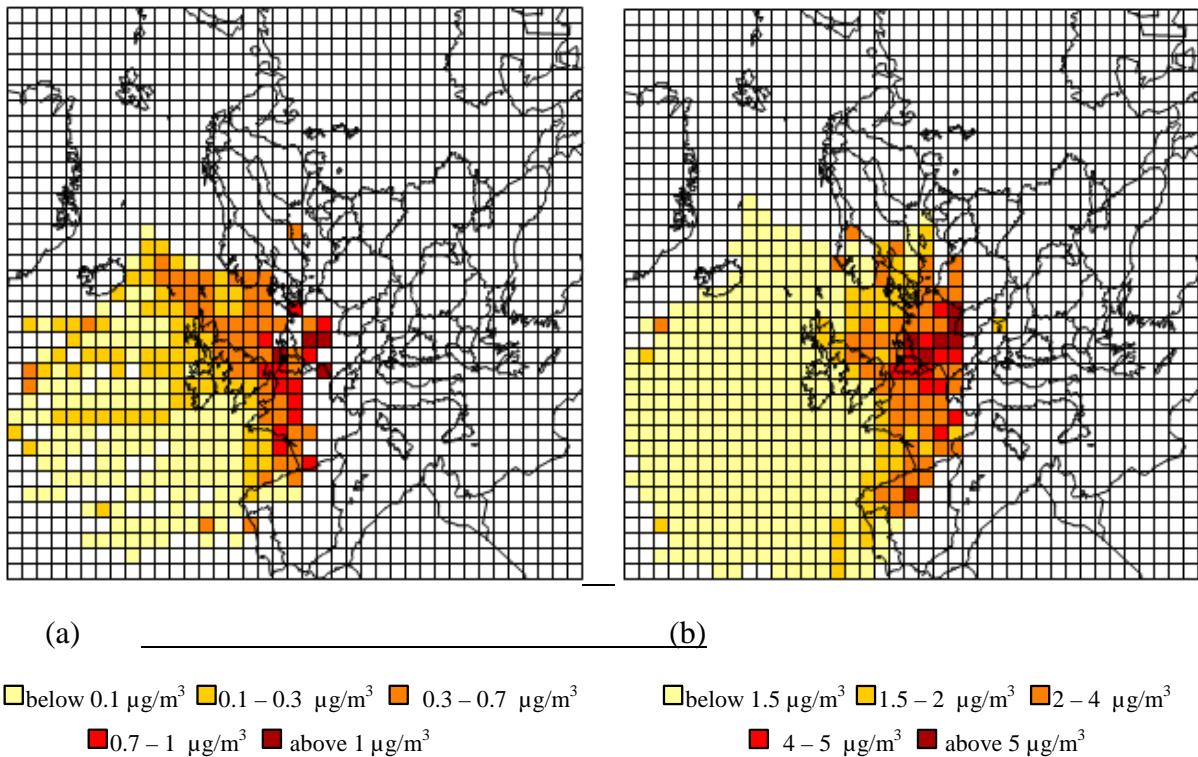


Figure S8: Concentration field maps of EC (a) and Nitrate (b) computed without data associated with trajectories that have crossed the London conurbation or associated with winds blowing from the A34 highway