

***Interactive comment on* “Modelling of base cation emissions, concentrations and deposition in the UK” by M. Werner et al.**

M. Werner et al.

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The comment was uploaded in the form of a supplement:
<http://www.atmos-chem-phys-discuss.net/10/C12247/2011/acpd-10-C12247-2011-supplement.pdf>

Interactive comment on Atmos. Chem. Phys. Discuss., 10, 21989, 2010.

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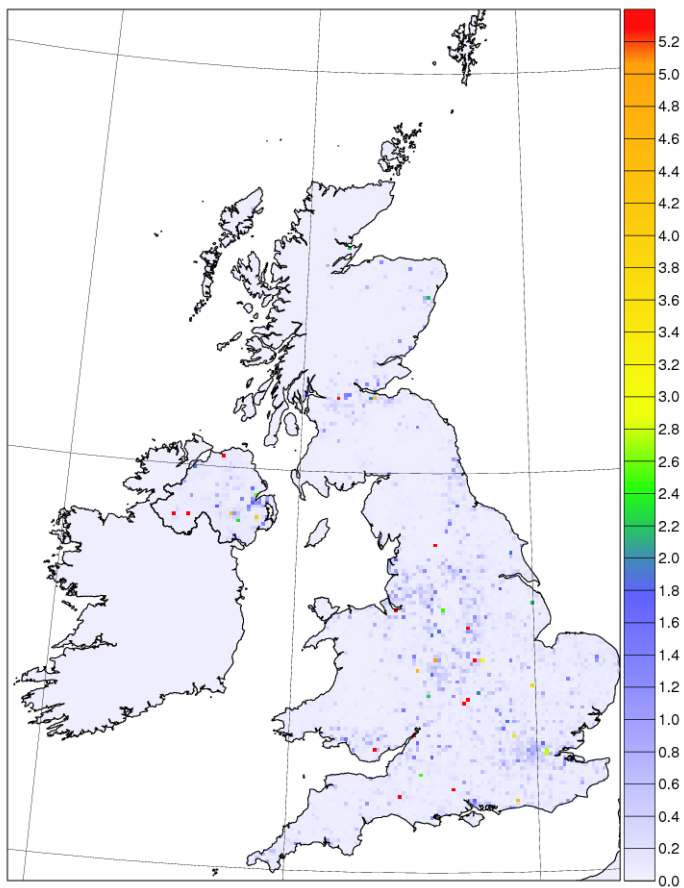


Fig. 1. Anthropogenic emission of calcium for the year 2006. Unit: kg ha⁻¹ year⁻¹.

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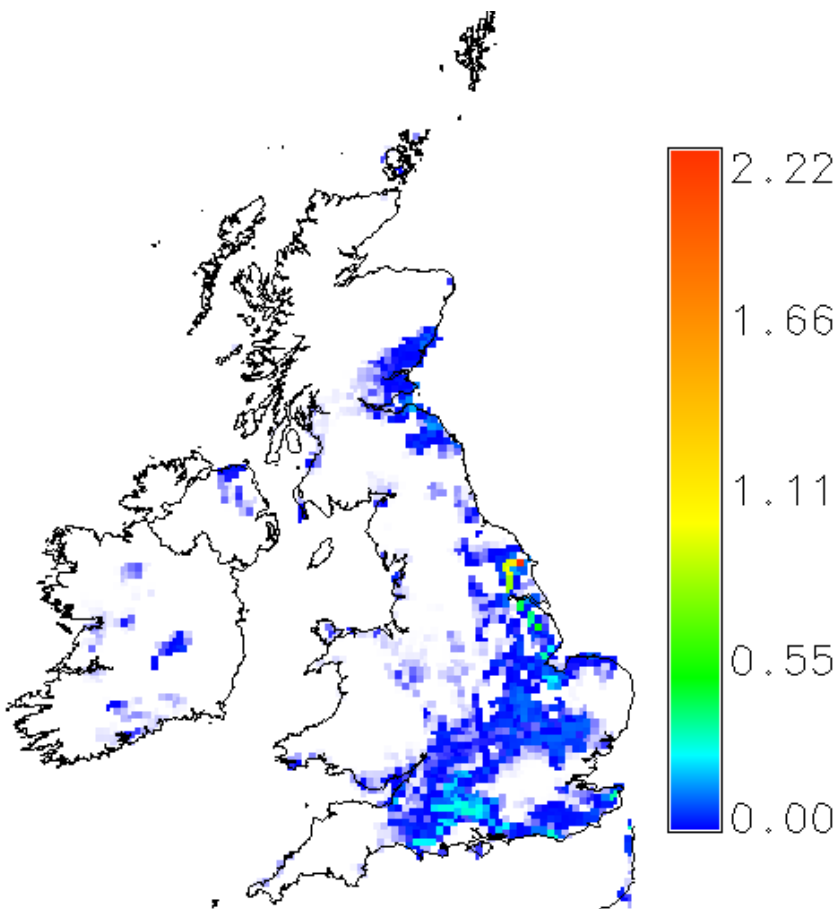
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Fig. 2. Wind driven dust emission of calcium. An average for the years 1997, 2000, 2001 and 2003. Unit: kg ha⁻¹ year⁻¹.

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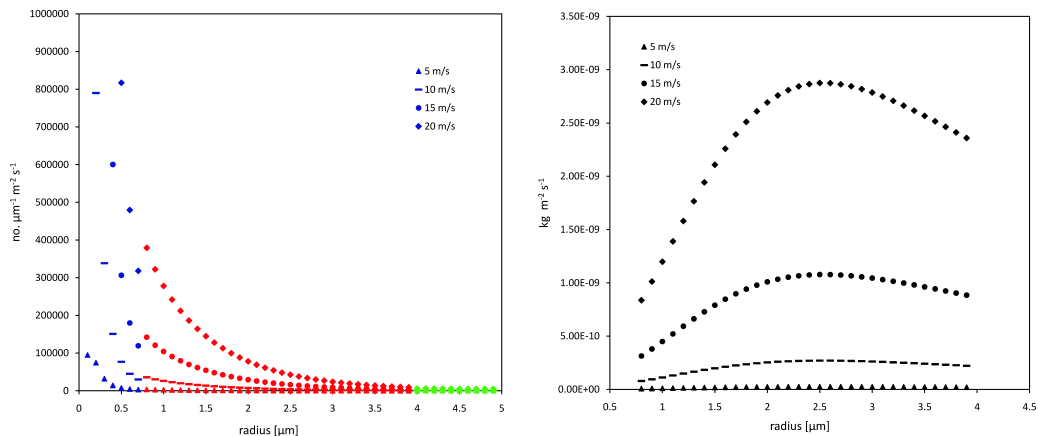
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Fig. 3. Sea salt aerosol production: number of particles for different wind speed for three parameterizations (lef); mass emitted for different wind speed for Monahan parameterization (right).

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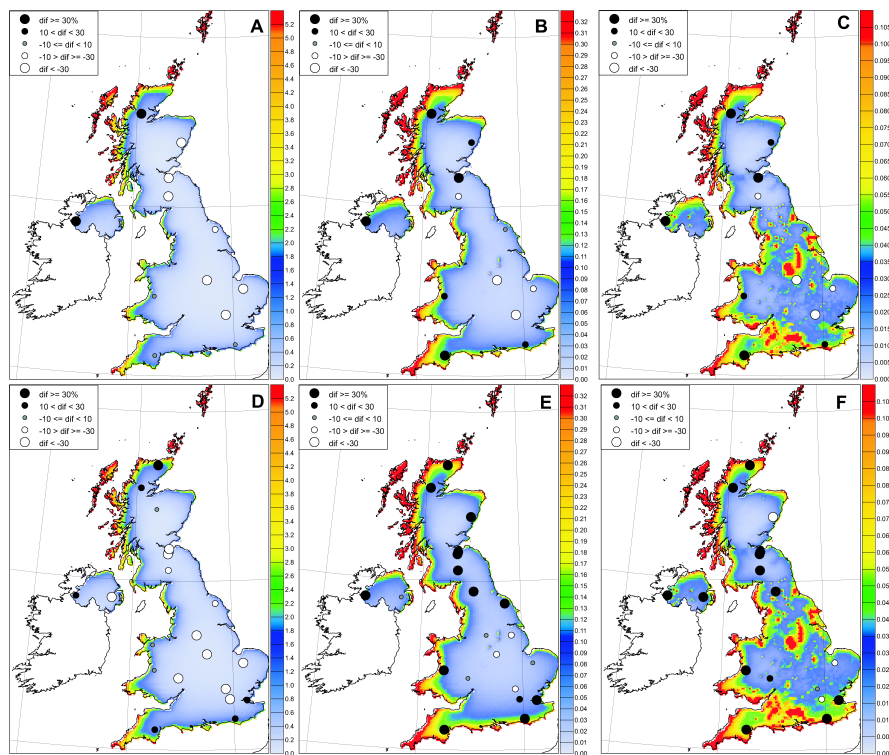
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Fig. 4. Distribution of base cation concentrations ($\mu\text{g m}^{-3}$) for the year 2003: A) Na^+ , B) Mg^{2+} , C) Ca^{2+} and 2006: D) Na^+ , E) Mg^{2+} , F) Ca^{2+} Errors for individual sites (%) are presented by dots.

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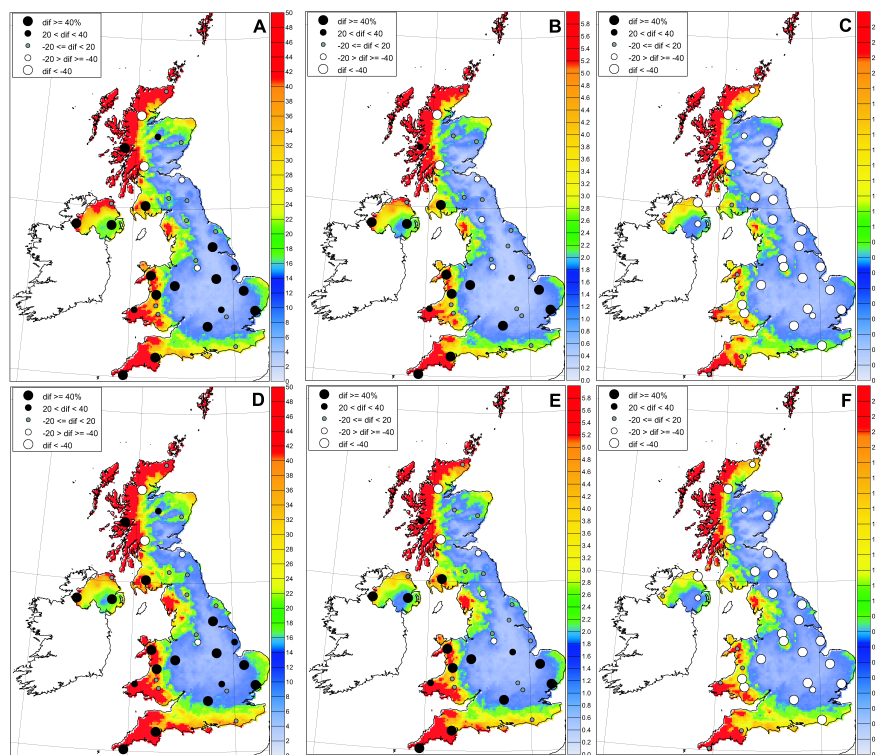
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Fig. 5. Distribution of base cations wet deposition ($\text{kg ha}^{-1} \text{ year}^{-1}$) for the year 2003: A) Na^+ , B) Mg^{2+} , C) Ca^{2+} . and 2006: D) Na^+ , E) Mg^{2+} , F) Ca^{2+} . Errors for individual sites (%) are presented by dots.

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