

Interactive comment on “European NO_x emissions in WRF-Chem derived from OMI: impacts on summertime surface ozone” by Auke J. Visser et al.

Andreas Stohl

ast@nilu.no

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This is an interesting study about European NOx emissions. I was puzzled by the fact that the ozone increase of 6 ug/m3 due to optimized emissions (which is reported to be largely due to increases in soil NOx emissions) is very similar to what I estimated as the impact of soil NOx emissions (albeit with even higher soil NOx emissions) of 4 (1.4-9.6) ppb a long time ago using a very simple all-European box model (Stohl, 1996). Is this just a coincidence, given the very simple set-up in Stohl (1996) and also differences in both soil and other NOx emissions between the two studies?

Reference: Stohl, A., E. Williams, G. Wotawa, and H. Kromp-Kolb (1996): A Euro-

pean inventory of soil nitric oxide emissions and the effect of these emissions on the photochemical formation of ozone in Europe. *Atmos. Environ.* 30, 3741-3755.

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