

Interactive comment on “Inverse modelling for mercury over Europe” by Y. Roustan and M. Bocquet

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We would like to thank the referees for their reviews.

We agree that “clean air” conditions for the oxidized species is not truly realistic (we assume that the unit for the concentrations mentioned is pg/m^3). But this assumption is not too constraining when working on gaseous concentration. In particular, we have checked, using sensitivities computed in [1], that the influence of $30 \text{ pg}/\text{m}^3$ of oxidized mercury at the boundary would be almost negligible on the gaseous concentration measurements (less than 2 % of difference). If one wants to use wet deposition observations, this assumption should probably be avoided. We will modify the text to develop this point.

References

- [1] Roustan, Y. and Bocquet, M.: Sensitivity analysis for mercury over Europe, J. Geophys. Res., in press, 2006.

Interactive comment on Atmos. Chem. Phys. Discuss., 6, 795, 2006.

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