

Interactive
Comment

Interactive comment on “Modelling constraints on the emission inventory and on vertical diffusion for CO and SO₂ in the Mexico City Metropolitan Area using Solar FTIR and zenith sky UV spectroscopy” by B. de Foy et al.

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Received and published: 19 September 2006

Referee # 2 has provided very extensive and specific comments on the organization, length, and focus of the manuscript. This referee confirms that the paper addresses a topic that is important to understanding air quality issues in Mexico City and of more general interest as the air quality community seeks methods of evaluating emissions inventories for key pollutants, such as CO and SO₂, by utilizing state-of-the art ambient measurements and modeling tools for "top down" analyses of primary pollutant emissions. This referee's many suggestions for improvements seem to be very well

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founded.

I concur with this referee's assessment that the manuscript will require an extensive rewrite to achieve a shorter, better focused, and more compelling and valuable paper. Specific attention needs to be paid to developing and assigning quantitative confidence limits, without them comparisons of emissions deduced from atmospheric measurement/modeling activities cannot be meaningfully compared to "bottom-up" emissions inventories.

Interactive comment on Atmos. Chem. Phys. Discuss., 6, 6125, 2006.

ACPD

6, S3196–S3197, 2006

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