

Interactive comment on “Global CO₂ fluxes estimated from GOSAT retrievals of total column CO₂” by S. Basu et al.

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Received and published: 4 March 2013

Some Questions

I was very interested in this paper and I have the following specific questions.

In ch. 3.1.1 authors justify their choice for x_0^{fire} to be fixed in the inversion algorithm by the fact that the uncertainty in x_0^{fire} is much smaller than the uncertainty in x_0^{bio} . However authors also choose to keep fixed the prior estimate of fossil fuel emissions x_0^{FF} in the inversion procedure. Is there some kind of similar justification for such a choice: are the errors in x_0^{FF} small as compared to that of x_0^{bio} ?

Also how do authors think: whether their method could be used for verifying anthropogenic greenhouse emissions (such as those presented in EDGAR database)?

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Thank you in advance,
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Interactive comment on Atmos. Chem. Phys. Discuss., 13, 4535, 2013.