

Interactive comment on “What can we learn from European continuous atmospheric CO₂ measurements to quantify regional fluxes – Part 2: Sensitivity of flux accuracy to inverse setup” by C. Carouge et al.

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Reply to D. Erickson on: What can we learn from European continuous atmospheric CO₂ measurements to quantify regional fluxes, Part 2.

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D. Erickson suggests that the two companion papers could be merged into a single paper. While this option was debated amongst the co-authors, we decided the study was more clearly presented in two companion papers.

The first paper is focused on presenting the method and the reference experiment
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which outlines the main conclusions of the study. The second paper introduces subsequent sensitivity experiments. We believe that these sensitivity studies are primarily of interest to scientists working on the same subject. However, the main conclusions of the study and the method presented in the first paper is of interest to a broader scientific audience.

Consequently, we think it is appropriate to keep the first paper as focused as possible and to publish a second paper that contains greater detail of the method.

Interactive comment on Atmos. Chem. Phys. Discuss., 8, 18621, 2008.