

Geosci. Model Dev. Discuss., author comment AC1
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Comment on gmd-2021-106

Joël Thanwerdas et al.

Author comment on "Variational inverse modeling within the Community Inversion Framework v1.1 to assimilate $\delta^{13}\text{C}(\text{CH}_4)$ and CH_4 : a case study with model LMDz-SACS" by Joël Thanwerdas et al., Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2021-106-AC1>, 2021

On behalf of all Co-Authors, we apologize for this strange sentence in the abstract :

"More importantly, when assimilating both CH_4 and $\delta^{13}\text{C}(\text{CH}_4)$ observations, but assuming source signatures are perfectly known increase these differences between the system with CH_4 and the enhanced one with $\delta^{13}\text{C}(\text{CH}_4)$ by a factor 3 or 4, strengthening the importance of having as accurate as possible signatures."

Here is a correction :

"More importantly, when assimilating both CH_4 and $\delta^{13}\text{C}(\text{CH}_4)$ observations, but assuming that the source signatures are perfectly known, these differences increase by a factor of 3 or 4, strengthening the importance of having as accurate signature estimates as possible."
"

We hope that it will clarify the statement.