Comment on gmd-2021-106
Joël Thanwerdas et al.

Author comment on "Variational inverse modelling within the Community Inversion Framework to assimilate $\delta^{13}C(CH_4)$ 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 $\delta^{13}C(CH_4)$ observations, but assuming source signatures are perfectly known increase these differences between the system with $CH_4$ and the enhanced one with $\delta^{13}C(CH_4)$ 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 $\delta^{13}C(CH_4)$ 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.