

Geosci. Model Dev. Discuss., author comment AC1  
<https://doi.org/10.5194/gmd-2021-375-AC1>, 2021  
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## **Comment on gmd-2021-375**

Zhiqiang Liu et al.

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Author comment on "Improving the joint estimation of CO<sub>2</sub> and surface carbon fluxes using a constrained ensemble Kalman filter in COLA (v1.0)" by Zhiqiang Liu et al., Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2021-375-AC1>, 2021

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Dear Editor,

Thanks for the notification! The core of this paper is the CEnKF method. We have uploaded it to zenodo (<https://doi.org/10.5281/zenodo.5746140>).

The LETKF code belongs to Takemasa (<https://github.com/takemasamiyoshi/letkf>) and we have no right to publish it to zenodo. The system uses the 4D version of LETKF (line 123).

The GEOS-Chem version is 13.0.2 (<https://doi.org/10.5281/zenodo.4681204>).

We will add the above information to the revised manuscripts.

Sincerely,  
Zhiqiang