

***Interactive comment on “Atmospheric inversion of the surface carbon flux with consideration of the spatial distributions of US crop production and consumption” by J. M. Chen et al.***

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Many thanks for your careful examination of our manuscript and many useful suggestions. We agree that our manuscript can be much improved by (1) conducting a set of sensitivity tests for a comprehensive evaluation of the influence of the prior flux on the inverted results, and (2) comparing our results with more previous studies on the same topic and doing in-depth analysis of our inversion results with other independent information.

We will provide a comprehensive point-to-point answer to your questions and suggestions when we submit the revised version of our manuscript.

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