

Atmos. Chem. Phys. Discuss., author comment AC2  
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## Reply on RC2

Liang Feng et al.

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Author comment on "Methane emissions responsible for record-breaking atmospheric methane growth rates in 2020 and 2021" by Liang Feng et al., Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2022-425-AC2>, 2022

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This reviewer is correct that studies proposing that OH played a large role in the atmospheric growth in 2020 used forward simulations. Point well taken. However, these studies were effectively blind to the methane emission hotspots that we can see from space, drawing attention to the disconnect between different modelling approaches used by different parts of the community. Also, these studies tended to make their claims a little more robustly than suggested by this reviewer.

We sincerely thank the reviewer for keeping us honest and challenging us to provide additional evidence to support our claim. In our submitted response, we have suggested expanding our caveats and including additional experiments. Our preliminary follow-on experiments are consistent with our original claim, which we will detail in the revised manuscript.