

Nonlin. Processes Geophys. Discuss., author comment AC1  
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## **Comment on npg-2021-25**

Yumeng Chen et al.

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Author comment on "Inferring the instability of a dynamical system from the skill of data assimilation exercises" by Yumeng Chen et al., Nonlin. Processes Geophys. Discuss.,  
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We thank both Reviewers for their careful reading of our manuscripts and the very valuable suggestions for improvements. We have done our best to address all of the Reviewers' remarks and provide a detailed point-by-point responses in the following. In the interested of readability, we report each of the Reviewers' remark followed by our answers.

We hope the current version of the manuscript meets the high standard expected for publication on NPG.

For point-by-point responses, we refer the readers to the PDF supplement material.

Please also note the supplement to this comment:

<https://npg.copernicus.org/preprints/npg-2021-25/npg-2021-25-AC1-supplement.pdf>