

Atmos. Chem. Phys. Discuss., referee comment RC1  
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## **Comment on acp-2021-291**

Anonymous Referee #1

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Referee comment on "Identifying the spatiotemporal variations in ozone formation regimes across China from 2005 to 2019 based on polynomial simulation and causality analysis" by Ruiyuan Li et al., Atmos. Chem. Phys. Discuss.,  
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1. measure and attribute spatial stratified heterogeneity (SSH).
2. if the population is SSH and not all strata are sampled, the sample is biased; a global model would be confounded if the population is SSH;
3. provide the main equations of your model;
4. justify your approach is the best one, considering many alternatives;
5. justify your approach and findings are "causality".