

# ***Interactive comment on* “Quantitative assessment of changes in surface particulate matter concentrations over China during the COVID-19 pandemic and their implications for Chinese economic activity” by Hyun Cheol Kim et al.**

## **Anonymous Referee #2**

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In the manuscript, the authors used 3-D chemical transport model along with other surface and remote measurements to study the change of surface concentrations in China due to the COVID-19 pandemic. One of their important strategies is to adjusting emission inventory which they claimed to be reasonable. I think their data analyses are reasonable. Still, I am not comfortable with their approach of adjusting emission inventory. I suggest the authors should provide more detailed explanation on it and how they could validate it. One more thing that concerns me is that it seems like that the manuscript does not contain significant scientific finding(s). It shows just the trend

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and some implications. Please provide why the results shown in the manuscript are important. Still, the method used in the manuscript looks interesting and I recommend the authors have more explanation and provide what are the important findings in this study. To sum it up, I recommend the manuscript should be revised significantly and submitted again.

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