

Atmos. Chem. Phys. Discuss., referee comment RC1  
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## Comment on acp-2021-1075

Anonymous Referee #1

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Referee comment on "A machine learning approach to quantify meteorological drivers of 2015-2019 ozone pollution in China" by Xiang Weng et al., Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2021-1075-RC1>, 2022

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The authors present an exploration of observational and model data to explore the contribution of meteorology to ozone pollution events. They expand the period of the year considered in this analysis (April-October), compared to previous work in the same area. The way in which the authors explore multiple linear and non-linear techniques before justifying their chosen approach is exemplary. The manuscript feels more focused on the techniques taken rather than the application, but this is fine considering the novel techniques being used as well as the broad interest for their study. The approaches and general interest make this manuscript appropriate for ACP.

No notable changes are requested to the manuscript.