

Interactive comment on “Elucidating the ozone pollution in Yangtze River Delta region during the 2016 G20 summit for MICS-Asia III” by Zhi-zhen Ni et al.

Anonymous Referee #2

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It is not clear how the chemical and physical factors contribute to O₃ formation based on current experimental design. Most discussions of the results are too descriptive instead of quantitative. Specific comments are listed below:

- 1 The authors mentioned emergency emission control measures. Were emissions perturbed to represent these measures? How did emission control measures contribute to the ozone episode?
- 2 The authors claimed that this study revealed notable background O₃ concentrations, but it is very confusing how this conclusion was drawn. How much does it contribute to O₃ levels in the YRD?

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3 It is not convincing that current categorization of process analysis can provide any useful information. Concluding photochemistry dominated O₃ generation does not provide any indications for O₃ pollution control. Which precursor or process are important? More in-depth analyses are needed.

Minor comments:

- 1 Fig. 1a does not show domain 1.
- 2 Line 119: it is confusing if assimilation of meteorological variables were used or not, how?
- 3 Line 143: In June, July, and August, biomass burning emissions are important in east China, why do you ignore it?

Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2019-634>, 2019.

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