

Atmos. Chem. Phys. Discuss., referee comment RC1
<https://doi.org/10.5194/acp-2021-618-RC1>, 2021
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Comment on acp-2021-618

Anonymous Referee #2

Referee comment on "The impact of peripheral circulation characteristics of typhoon on sustained ozone episodes over the Pearl River Delta region, China" by Ying Li et al., Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2021-618-RC1>, 2021

General Comment:

The authors studied the impact of typhoon on the ground level ozone over the Pearl River Delta region based on surface observations of ozone and radar observations of wind profiles. They tried to understand the processes for the observed ozone enhancement associated with weak wind deepening (WWD) in the troposphere using WRF-Chem model and the process responsible for day-to-day variability of ozone during the episode.

Following are the comments

- (1) It was felt that mathematical equations can be moved to Appendix/Supplementary, so that the paper becomes more crisp.
- (2) Presentation of results (particularly sec 3.4) needs substantial improvement.
- (3) Need to improve the English language by correcting the grammar mistakes throughout the manuscript, including abstract and conclusion.
- (4) Minor comments are commented as notes in the PDF version of manuscript.

Please also note the supplement to this comment:

<https://acp.copernicus.org/preprints/acp-2021-618/acp-2021-618-RC1-supplement.pdf>