

Interactive
Comment

Interactive comment on “Significant impact of the East Asia monsoon on ozone seasonal behavior in the boundary layer of Eastern China and the west Pacific region” by Y. J. He et al.

Anonymous Referee #2

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Overall:

The authors investigate the Ozone seasonal variations over Eastern China and West Pacific, which can be closely related to the summertime rainfall and wind around eastern China and West Pacific. Moreover, three-year observational datasets including mountain monitoring sites and oceanic stations are valuable in this study. Such investigations can further our understanding of the impact of East Asian summer monsoon on the Ozone seasonal variations. However, several points of the author’s analyses are still questionable for me. A minor revision is required for the recommendation to be published in the Atmospheric Chemistry and Physics Discussions.

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Comments:

(1) The fact that the authors have used 3yr time averaged calculations prevents any insight into the development and decay of the East Asian summer monsoon system.

(2) The authors should discuss a little bit about the modeling result and observational data in this study and identify the causes of the discrepancies.

(3) The impact of a strong or a weak monsoon penetration on the bimodal seasonal patterns of Ozone should be compared in the study.

(4) The authors could further explain the ozone variation by using the atmospheric stability during different monsoon periods such as pre-onset, onset, active and break, retreat).

Interactive comment on Atmos. Chem. Phys. Discuss., 8, 14927, 2008.

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