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Atmospheric Chemistry and Physics Discussions

Interactive comment on "SO_2 noontime peak phenomenon in the North China Plain" *by* W. Y. Xu et al.

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Commented by Wei Zhou,

The authors present an interesting analysis of noontime peak SO2 in the northern China plain. The authors are suggested to discuss if SO2 was consumed by lower clouds via aqueous processing when SO2 peaks occurred. Previously, SO2 in Texas power plant plumes was rapidly lost via aqueous processing of scatters clouds, the corresponding SO2 lifetime of which was 2∼3 hours (Zhou et al., 2012).

Reference: W. Zhou, D. S. Cohan, R. W. Pinder, J. A. Neuman, J. S. Holloway, J. Peischl, T. B. Ryerson, J. B. Nowak, F. Flocke, and W. G. Zheng; Observation and modeling of the evolution of Texas power plant plumes, Atmospheric Chemistry and Physics, 12,

455-468, 2012 (http://www.atmos-chem-phys.net/12/455/2012/acp-12-455-2012.html)

Interactive comment on Atmos. Chem. Phys. Discuss., 14, 5653, 2014.