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Comment

Interactive comment on “Origin of springtime ozone enhancements in the lower troposphere over Beijing: in situ measurements and model analysis” by J. Huang et al.

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1. About Lines 15-20, you might also want to cite Lin et al (2012, JGR) and Lin et al (2014, Nature Geoscience) regarding Asian pollution influence on downwind regions. In particular, Lin et al (2014) demonstrated for the first time the role of changing atmospheric circulation in contributing to variability of Asian ozone pollution reaching Hawaii.

Lin, Meiyun, L.W. Horowitz, S. J. Oltmans, A. M. Fiore, Songmiao Fan (2014): Tropospheric ozone trends at Manna Loa Observatory tied to decadal climate variability,

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Nature Geoscience, 7, 136-143, doi:10.1038/NGEO2066

Lin, M., A. M. Fiore, L. W. Horowitz, O. R. Cooper, V. Naik, J. Holloway, B. J. Johnson, A. M. Middlebrook, S. J. Oltmans, I. B. Pollack, T. B. Ryerson, J. X. Warner, C. Wiedinmyer, J. Wilson, B. Wyman: Transport of Asian ozone pollution into surface air over the western United States in spring, Journal of Geophysical Research, 117, D00V07, 2012, doi:10.1029/2011JD016961

2. A number of papers have also examined the role of biomass burning and Asian monsoon on seasonal variations of ozone over central eastern China, and thus should be included in your literature review.

Fu, T.-M., Jacob, D. J., Palmer, P. I., Chance, K., Wang, Y. X., Barletta, B., Blake, D. R., Stanton, J. C., and Pilling, M. J.: Space-based formaldehyde measurements as constraints on volatile organic compound emissions in east and south Asia and implications for ozone, J. Geophys. Res. 112, D06312, doi:10.1029/2006JD007853, 2007

Lin, M., T. Holloway, T. Oki, D.G. Streets, and A. Richter: Multi-scale model analysis of boundary layer ozone over East Asia. Atmos. Chem. and Phys., 9, 3277-3301, 2009

Interactive comment on Atmos. Chem. Phys. Discuss., 14, 32583, 2014.

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14, C11685–C11686,
2015

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