

Paper: Ozone seasonal evolution and photochemical production regime in polluted troposphere in eastern China derived from high resolution FTS observations

Authors: Sun, Youwen, et al.

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The paper documents retrievals of ozone, formaldehyde, and carbon monoxide using FTS observations in the central portion of eastern China over the 2014-2017 period. The paper also provides some reasonable analysis of the sources of the ozone values at this station.

I read the revised version, and went back and looked over the original version. First, the authors have put in a nice effort into revising their manuscript and mainly responding to the critiques of the original manuscript. Second, the discussion on the retrievals, kernels, uncertainties is well done. I would rate my confidence in the data and retrievals to be quite high. Third, tropospheric chemistry is not my forte, but I'm skeptical of inferring information from column observations. Since ozone production is a non-linear function of VOCs and NO_x, and since much of this is found in the boundary layer or strong plumes in the free troposphere, it is difficult to infer much information from column observations. Hence, I find some of the correlations shown in the manuscript to be not well founded or poor. Hence, the overall analysis is marginal in my "dynamicist" view. Nevertheless, this is interesting data from a highly polluted region that should be in the literature. Hence, I feel this should be published.