

Interactive comment on “DIAL measurement of lower tropospheric ozone over Saga (33.24 N, 130.29 E), Japan, and comparison with a chemistry-climate model” by O. Uchino et al.

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We are very pleased to see this Japanese tropospheric ozone lidar obtaining data. As one of a very small number of tropospheric ozone lidars (e.g., TOLNet: <http://www-air.larc.nasa.gov/missions/TOLNet/>) its contribution will have a large impact on the global available ozone lidar data available for scientific studies.

I have two suggestions for the authors to strengthen this paper: 1) Provide quantitative estimates of the accuracy of the lidar retrievals relative to the correlative observations (means, s.d., function of altitude, etc.). 2) Provide some example(s) of

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time/altitude plots of the temporal progression of tropospheric ozone over your sight (e.g., <http://nsstc.uah.edu/atmchem/lidar/data/120606/120606.html>).

We would encourage you to continue to strive for data at lower altitudes (e.g., ≤ 100 m AGL) and during interesting geophysical conditions (diurnal PBL development, STE, land/ocean interactions, etc.). We look forward to future publications of these lidar observations.

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