

Interactive comment on “Correcting for trace gas absorption when retrieving aerosol optical depth from satellite observations of reflected shortwave radiation” by F. Patadia et al.

I. E. Gordon

igordon@cfa.harvard.edu

Received and published: 14 February 2018

Why HITRAN2008 is used? There are substantial improvements in the quality and extent of the spectroscopic data for atmospheric gases in HITRAN2016 (Gordon et al, J. Quant. Spectrosc. Radiat. Transf. (2017) 203, 3-69. doi:10.1016/j.jqsrt.2017.06.038) and even HITRAN2012 (Rothman et al, J. Quant. Spectrosc. Radiat. Transf. 130, 4-50 (2013) doi:10.1016/j.jqsrt.2013.07.002). In fact many trace gases did not even have data in the shortwave regions in HITRAN2008. In addition substantial improvements in the quality of the spectroscopic data and its completeness for main absorbers, including water vapor and ozone were carried out in more recent editions. HITRAN2016

C1

data is available at www.hitran.org

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2018-7, 2018.

C2