Interactive comment on “Characterization of ozone profiles derived from Aura TES and OMI Radiances” by D. Fu et al.

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The Authors introduce their work by mentioning a number of recent studies on the combination of different spectral regions (UV, VIS and TIR) for increasing the vertical resolution of tropospheric trace gases, in particular ozone. All of these studies are based on simulated observations. Anyway, there exists a published work on a multispectral inversion scheme to retrieve ozone information from real SCIAMACHY observations, i.e., by using UV+VIS:

The improvements brought by this multispectral approach, in particular in the troposphere, are discussed in the following publication:


To my knowledge, these are the first (and, for the moment, the only) published studies of multispectral retrieval with real observations and they are surely very pertinent for your work. I suggest the Authors to take a look at those publications and add them as references to their paper, i.e., by explicitly mentioning that they are the first experiments of multispectral retrieval with real observations.

Interactive comment on Atmos. Chem. Phys. Discuss., 12, 27589, 2012.