Interactive comment on “Development of a climate record of tropospheric and stratospheric ozone from satellite remote sensing: evidence of an early recovery of global stratospheric ozone” by J. R. Ziemke and S. Chandra

J. R. Ziemke and S. Chandra
jerald.r.ziemke@nasa.gov

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COMMENTS BY DR. J. LASTOVICKA

You attribute the turnaround of ozone trends in the mid-1990s (after 1994) fully to chemistry, to the effect of Montreal Protocol. I agree that the overall increase of ozone concentration is predominantly of chemical origin. However, an analysis for the Pay-erne balloon sounding station (Weiss et al., 2001) as well as analysis of ozone laminae behavior (Krizan and Lastovicka, 2005) indicate the dominant role of dynamics in the early phase of ozone trend turnaround.


Thanks for commenting on our paper and suggesting these references. In the final section on stratospheric ozone trends in the revision we have included discussion on these points involving dynamics and Montreal Protocol and have included the above references you mention including some other ones.

Interactive comment on Atmos. Chem. Phys. Discuss., 12, 3169, 2012.