

***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**

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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.

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Weiss, A., J. Staehelin, C. Appenzeller, N.P.R. Harris: Chemical and dynamical contributions to ozone profile trends at the Payerne (Switzerland) balloon soundings. *J. Geophys. Res.*, 106, 22,685-22,694, 2001. Krizan, P., J. Lastovicka: Trends in positive and negative ozone laminae in the Northern Hemisphere. *J. Geophys. Res.*, 110, D10107, doi: 10.1029/2004JD005477, 2005.

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

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12, C81–C82, 2012

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