

***Interactive comment on* “Radiative forcing since preindustrial times due to ozone change in the troposphere and the lower stratosphere” by M. Gauss et al.**

Anonymous Referee #1

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The paper “Radiative forcing since preindustrial times due to ozone change in the troposphere and the lower stratosphere” by M. Gauss et al., presents interest in results particularly in what refers the combination of tropospheric and stratospheric ozone changes. The radiative forcing calculations are also interesting and I would recommend the paper as it is but I have to admit that the authors fail to quote a recent publication showing the stratosphere - troposphere ozone relations from very recent observational data (Isaksen et al., “Tropospheric ozone changes at unpolluted and semi-polluted regions induced by stratospheric ozone changes”, J. Geophys. Res., 110, D02302, doi:10.1029/2004JD004618, 2005) and referring to ozone trends they fail

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to refer to equally important papers but for trends in ozone and UV which contribute to the results reported here, namely Stolarski et al. "Measured Trends in Stratospheric Ozone", Science, 256, 342-349, 1992 and Zerefos, "Long-term ozone and UV variations at Thessaloniki, Greece", Phys. and Chem. of the Earth, 27, 455-460, 2002. Addition and a little discussion on results of these references in the text I think will improve the otherwise interesting work reported in this article. After these corrections are made, I think the paper can be accepted for publication in ACP.

Interactive comment on Atmos. Chem. Phys. Discuss., 5, 5751, 2005.

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