

Interactive comment on “A new formulation of equivalent effective stratospheric chlorine (EESC)” by P. A. Newman et al.

P. A. Newman et al.

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Thank you for the comments. We've repaired the manuscript from the “Minor points” comments in a number of spots. Many of the comments reflected our poor explanations or lack of detail on various items. We have added material in a number of areas to clarify the text.

We have modified the abstract with some additional lines of explanation. We have also clarified the usage of “classic” EESC in some of the cited trend studies. For the most part, the use of “classic” EESC should not be a major problem with many fits of ozone observations. This is because the ozone residual variance tends to dominate the variability of the EESC curves for various ages over the last few decades. On the other hand, the trend estimate of ozone change per ppb of EESC would be fairly poor, since the “classic” EESC estimate cannot be compared to a model.

We have further added a paragraph on the derivation of fractional release values. As noted in our responses to the other referees, we have removed the lifetimes and the discussion of lifetimes.

Interactive comment on Atmos. Chem. Phys. Discuss., 7, 3963, 2007.

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