**Geoscientific
Model Development
Discussions**

Interactive comment on "Automated sequence analysis of atmospheric oxidation pathways: version 1.0" by T. M. Butler

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Many thanks to the reviewer for their positive comments on the manuscript.

Regarding the presentation of HO_2 yields, I did not think it was necessary to include this in the original manuscript, as the presentation of NO_2 yields alone suffices to show the capabilities of the algorithm (which is the subject of this manuscript). The HO_2 yields are, of course, available in the output produced by the sequence algorithm, and it is easy enough to add them in a similar way to which the NO_2 yields are presented. I am not sure though whether this would bring much extra value to the manuscript at the cost of an extra figure and the necessary discussion which would need to accompany that.

The HO_2 yields, along with a full discussion of their role in the context of ozone formation, will of course feature prominently in the next manuscript, currently in preparation, which will focus specifically on the theme of ozone production. I will however include the HO_2 yields in the present manuscript if convinced by subsequent interactive discussion, or if directed to by the editor.

And yes, I got the name of ethylene glycol wrong. This will be corrected in the final version of the manuscript.

Interactive comment on Geosci. Model Dev. Discuss., 2, 1001, 2009.