



Interactive comment on “Identifying the causes of differences in ozone production from the CB05 and CBMIV chemical mechanisms” by R. D. Saylor and A. F. Stein

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The authors thank Referee Taraborrelli for useful comments and feedback.

Main Comment: Although we are definitely interested in improving the CB05 mechanism as suggested by the Referee, the intent of the present manuscript was solely to identify the underlying causes for the observed differences between CB05 and CBMIV. Future work (and hence a future manuscript) may be undertaken to investigate exactly the kind of improvements that the Referee Taraborrelli has so graciously suggested. We feel the manuscript adequately stands on its own, in its current form, as an identification of the causes of these differences.

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Minor Comments: We agree with the Referee that a brief description of the NAQFC versions of CB05 and CBMIV would be helpful to readers. Such a description will be provided in the revised version of the manuscript.

We also agree with the Referee to provide descriptions in the revised Supplement for the referenced kinetic functions.

Interactive comment on Geosci. Model Dev. Discuss., 4, 2687, 2011.