

Interactive comment on “Sensitivity of polar stratospheric ozone loss to uncertainties in chemical reaction kinetics” by S. R. Kawa et al.

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We thank Dr. Golden for his reading of the manuscript, his complimentary comments, and, most importantly, for his service on the NASA/JPL Panel, which enormously facilitates modeling, data interpretation, and overall progress in understanding atmospheric chemical processes. We are glad that our modeling study has contributed in some way to the Panel's work, and we look forward to improved rate and uncertainty evaluations in future versions.

On a technical note, we have looked at the impact of the re-evaluated Cl₂O₂ cross-section uncertainty factor that Dr. Golden mentions in his comment, and we find that for typical polar stratospheric spring conditions (56 mbar, 80° SZA, 130 DU O₃), a factor of 0.64/2.09 uncertainty is produced in the photolysis rate, which is close to the
C4462

factor of 1.5 used in the paper.

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