

Interactive comment on “A chemical model of meteoric ablation” by T. Vondrak et al.

Anonymous Referee #2

Received and published: 10 September 2008

General Comments: This is a well written, thorough and important paper describing this research group's new model, and some results. A detailed model on the altitudinal profile for injection of meteoric material into the upper atmosphere will be useful for a number of fields of study, and the tracking of chemical species independently in meteoroid ablation is a significant step forward. I recommend this manuscript's prompt publication and have only two brief comments that remain after the initial review.

Specific Comments:

Page 14560, Line 20: Regarding head echo detections. It has been established in recent years that it is more correct to say that specular meteor radars are biased towards slower meteors due to an effect known as the meteor ceiling, than it is to say that head echoes are biased towards faster particles. That statement is misleading for those not familiar with the various methods of radar meteors. See Chau et al., Icarus, Volume

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188, Issue 1, p. 162-174, 2007.

14571 Line 1: The authors say they use a an adaptive step size and then interpolate the final results onto a 100 m grid. Can the give some information on the range of step sizes used in the adaptive algorithm. This could be critical for interpretation of some of the finer scale features in their results.

Interactive comment on Atmos. Chem. Phys. Discuss., 8, 14557, 2008.

ACPD

8, S6892–S6893, 2008

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