

Interactive comment on “Designing global climate and atmospheric chemistry simulations for 1 km and 10, diameter asteroid impacts using the properties of ejecta from the K-Pg impact” by Owen B. Toon et al.

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As a (minor) coauthor of the Toon et al. 1997 paper, I'm pleased to see Toon's group return to this subject. Unfortunately I have neither participated nor closely observed progress in this field since 1997, so I'm unable to comment in detail. I do have the general impression that (1) some scenarios are quite robust despite the 65 million years that have passed since the K-Pg impact, e.g. lots of soot, and (2) the authors have done a thorough job laying out the initial conditions for a numerical weather / climate simulation. The initial conditions will serve not only the authors' future work but po-

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tentially a large number of groups around the world that can perform such simulations. Hence this manuscript deserves publication in ACP.

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