

Interactive comment on “Clouds and the Faint Young Sun Paradox” by C. Goldblatt and K. J. Zahnle

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Received and published: 29 October 2010

We thank Jim Kasting not only for his complementary review of our paper, but also for being gentlemanly in the face of our criticism of his method!

We will remain in friendly disagreement about whether clouds should be explicitly included: we do not think that it is a good idea to rely on the apparent partial cancellation of errors.

In response to specific comments:

1. Corrected.
2. Corrected.

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3. We have included some discussion of this in our section on 'decreased stratus' and added notes in the introduction and conclusions. Svensmark's core hypothesis has received great attention in relation to contemporary global change and has been thoroughly refuted. Galactic cosmic rays account for, at most, a small proportion of CCNs and there is no correlation between galactic cosmic ray incidence and cloudiness.

4. Corrected.

Interactive comment on Clim. Past Discuss., 6, 1163, 2010.

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