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Interactive comment on “Pan-spectral observing system simulation experiments of shortwave reflectance and longwave radiance for climate model evaluation” by D. R. Feldman and W. D. Collins

Anonymous Referee #1

Received and published: 26 June 2014

The study presents radiative transfer calculations at high spectral resolution from the CCSM3 model for the A2 scenario, from the near-UV to the far-infrared. These calculations are used to discuss how climate change modifies the Earth’s TOA spectrum. The authors also apply this methodology to other models, and discuss the utility of this approach for model evaluation. I find the paper interesting and well written. However, I don’t think it presents a significant amount of new science with respect to previous work on this topic, and therefore I don’t think it should be accepted for publication. I am sorry I cannot be more positive.

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