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Interactive comment on “Do we (need to) care about canopy radiation schemes in DGVMs? An evaluation and assessment study” by A. Loew et al.

Anonymous Referee #1

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The authors did a pretty good job in comparing the effects of different radiative transfer schemes on forest canopy radiative forcing. However, I found the work done provides minimal insight on how these models will impact the performance of DGVM. As the authors points out, DGVM is used on the temporal scale of decades to millennia, while these models are implemented on a instantaneous basis. Not only is it unrealistic for DGVM to include 3-D radiative transfer models as the authors pointed out, nor is it realistic to account canopy radiative transfer at the temporal scale investigated in this study using any of the radiative transfer schemes studies here. I believe the study is worthy of publication, but perhaps authors should conclude within what studied, not much about their effects on DGVM.

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