

Nina Črnivec's comments on a revised version of the manuscript entitled:

“SSolar-GOA v1.0: a simple, fast, and accurate Spectral SOLAR radiative transfer model for clear skies”

submitted to Geoscientific Model Development (GMD) by Victoria Eugenia Cachorro, Juan Carlos Antuña-Sánchez and Ángel Máximo de Frutos

In my opinion, the quality and the extent of the revised manuscript is adequate for GMD. I thank the authors for making the changes and thereby improving the initial article. I support the publication in GMD as elucidated below.

The majority of comments provided in the first round of review have been properly addressed. The cloudiness has not yet been incorporated in the radiation model, but it is fine if it will be included in a future model version. For now, I appreciate the accuracy of this simple model in cloud-free atmospheric conditions when compared to more sophisticated libRadtran benchmark calculations. I can see the value of this simple model for clear skies to serve as an educational resource for researchers that are entering the field of radiative transfer.

The Zenodo repository has been updated with missing data files so that scientific reproducibility is ensured. Last but not least, the critical grammar mistakes have been corrected.