

Response to editor

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Introduction

We are grateful to André Ehrlich for further comments on the manuscript "Impact of reflected shortwave anisotropy on satellite radiometer measurements of the Earth's energy imbalance" (egusphere-2025-829). The original comments are reproduced in black below, with our responses in blue.

Comments by André Ehrlich

The authors showed that their methodology is in line with the comments raised by the latest review. By editing the manuscript, the strategy of the analysis is now clear and understandable to the readers. Providing the detailed reference to the previous study in Hocking et al. (2024) supports the specific objectives of the new study. Solving these issues, I don't see a reason to have another round of reviews. Solving the limitations of the study that were stated by reviewers and authors is beyond the scope of the manuscript and subject to follow-up studies.

I only have two technical issue:

Table 1: Do the 0 values results from the fact, that you excluded these scene types? Or is it the real frequency of occurrence? I guess, it is the first reason. Then I suggest to use a hyphen instead of 0. And I suggest to make clear, that the frequency refers to the filtered data.

The zero values are a result of the fact that we use a single well-defined surface type (ocean, land, snow or desert) for each $1^\circ \times 1^\circ$ grid cell. This has been clarified in the caption for Table 1, and the zero values have been replaced by hyphens.

Code and data availability: You write: "The software used in this study will be published in the Bolin Centre Database." Did this happen in the meantime? If yes, please provide a reference.

The software has not yet been published, but we will initiate this process now that the manuscript has been accepted (subject to corrections) and there will be no more changes required. As agreed in communication with the editorial support team, a reference to the published software will be added during the proofreading process.

There is also a data sets provided for the review. I recommend to update and publish this data sets.

This data set will also be published and a reference added during the proofreading process, as for the software.