

Geosci. Model Dev. Discuss., author comment AC1  
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## Comment on gmd-2022-58

Christian R. Steger et al.

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Author comment on "HORAYZON v1.2: an efficient and flexible ray-tracing algorithm to compute horizon and sky view factor" by Christian R. Steger et al., Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2022-58-AC1>, 2022

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Dear referees, editor and Jeff Dozier,

Thank you very much for your time spent on reviewing the manuscript and on your constructive suggestions to improve it. We are currently preparing a revised version of the manuscript and are working on improvements to the source code of HORAYZON. We will particularly address the following two points, which were raised by more than one reviewer:

- Section 3.3 about the correct derivation of the sky view factor equation: Both referees were unable to follow our derivation entirely, we will thus rewrite this section and make it more comprehensible.
- User-friendliness of the HORAYZON package: The installation of HORAYZON version 1.1, as well as the execution of the examples, required some manual steps. Furthermore, it seems that the code structure was, in some places, a bit complicated and counterintuitive for users. We are currently addressing all these points and will adapt the HORAYZON package accordingly.

With best regards,

Christian R. Steger & co-authors