

Geosci. Model Dev. Discuss., author comment AC2
<https://doi.org/10.5194/gmd-2021-437-AC2>, 2022
© Author(s) 2022. This work is distributed under
the Creative Commons Attribution 4.0 License.

Reply on RC1

Chahan M. Kropf et al.

Author comment on "Uncertainty and sensitivity analysis for probabilistic weather and climate-risk modelling: an implementation in CLIMADA v.3.1.0" by Chahan M. Kropf et al., Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2021-437-AC2>, 2022

Publisher's note: the supplement to this comment was edited on 28 July 2022. The adjustments were minor without effect on the scientific meaning.

>> The manuscript presents an interesting advancement to the CLIMADA risk modelling platform to enable rigorous assessment of uncertainty propagation through risk models. This new functionality will be of interest to a broad range of CLIMADA users as well as serve as inspiration for developers of other modelling platforms to implement similar advancements. I think the manuscript is overall well structured and well written. The discussion and outlook section is in my opinion particularly thoughtful and provides a very good account of benefits and limitations of current approaches to uncertainty quantification. I think this manuscript and the underpinning work offers a practical contribution to accelerate the uptake of good practices in the risk modelling community, as well as a contribution to foster further discussion on the need of better handling of model uncertainties. I would thus recommend the manuscript for publication after minor revisions. Below are some suggestions for improvement which I hope the authors may consider in preparing a final version.

-- Thank you very much for the thorough review and the positive feedback! In the attached .pdf we reply directly to the valuable and insightful comments.

>> Referee comments

-- Authors replies

Please also note the supplement to this comment:

<https://gmd.copernicus.org/preprints/gmd-2021-437/gmd-2021-437-AC2-supplement.pdf>