Response to the comments of the editor

16.12.2022

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Dear Wolfgang Kurtz,

thank you very much for the helpful comments. In the following we address the comments to the manuscript 'URANOS v1.0 - the Ultra Rapid Adaptable Neutron-Only Simulation for Environmental Research' submitted to GMD. The editor's comments are in the regular font, our answers italic and the latexdiff of the submitted paper indented in quotation.

Editor

Dear authors,

thank you very much for adding the data to the Zenodo repository.

Unfortunately, I found that the cited DOI points to the 'old' archive version that only contains the model code but not the data. Note also, that not the newest version of the code/ data should be cited but the exact version that is described in the manuscript. From GMD's code and data policy page: „In every case, the citation from the paper must identify the exact version of the code and/or data used."

Please make sure that the cited DOI in the code data availability section references the exact version of the code AND data described in the manuscript. Ideally, you should also consider to synchronize the version number in the title with the one of the cited code.

Best regards,
Wolfgang Kurtz

Actually the relevant data was already included in the original submission of the repository. The GitHub repository is to be understood also as a guide how to use the software. The data we added in the meantime are examples or results from other toolkits for comparison. The nature of this simulation is to assist neutron flux calculations, which means that it is able to generate most of the material shown in the manuscript with a minimum set of input parameters. The material we added improves the convenience for using the repository and carrying out own calculation, it is, however, not strictly necessary for yielding own results. Nevertheless, we created a new repository for source code, examples, cross sections, model-dependent parameters and data in the version v1.0 matching the manuscript title.

> The URANOS source code is made available at the Github repository `https://github.com/mkoehli/uranos/tree/URANOS`. URANOS v1.0 has been released under DOI: 10.7910/DVN/THPNZW. Furthermore the code has been released including a collection of examples and use guides under DOI: 10.5281/zenodo.6578668. This DOI represents all versions, and will always resolve to the latest one.
> Libraries and data used in this publication have been released in the above mentioned Github repository and are available from the ~~Zenodo~~ Harvard dataverse archive DOI: ~~10.5281~~10.7910/~~zenodo.6578668~~DVN/THPNZW.

Thank you very much for the review of our manuscript.