

Dear Editor,

Please find enclosed the manuscript entitled “Tropical peatland hydrology simulated with a global land surface model”.

This paper builds on new model simulations, validated with an extensive validation dataset of groundwater levels and eddy covariance measurements in tropical peatlands. The validation data are collected from many different sources and researchers, and does include unpublished data. All sources and owners of the data are listed in a data overview in the manuscript (Appendix B; Table B1).

For the model simulations, the authors modified the land surface modeling component of the NASA GEOS-5 framework (<https://github.com/GEOS-ESM/>). The changes to the land surface modeling routines used in this study, i.e., the tropical peatland hydrology modules, are publicly available here: https://github.com/mbechtold/PEATCLSM_T

Full simulation output will be prepared and uploaded to a publicly accessible data repository when final results of the paper are accepted by the reviewers.

Thank you for considering our manuscript.

Best Regards,
Sebastian Apers and co-authors