

Geosci. Model Dev. Discuss., author comment AC1
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Reply on CEC1

Donghui Xu et al.

Author comment on "Using a surrogate-assisted Bayesian framework to calibrate the runoff-generation scheme in the Energy Exascale Earth System Model (E3SM) v1" by Donghui Xu et al., Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2021-401-AC1>, 2022

Dear Editor,

Thanks for reminding us regarding the Code and Data Policy, which we overlooked in our initial submission. We uploaded our ELM code, UQTK code, and processing and plotting script on Zenodo. We also clarified the version of Matlab we used to run the processing and plotting scripts. The domain data and surface data that needed for running ELM-v1, and the processed ISIMIP2a runoff benchmark are archived on Zenodo as well. We updated the Code and Data Availability section in the attached manuscript. You can also find the modified section in the following:

Code and Data Availability

The current version of ELM is available from E3SM project (<https://github.com/E3SM-Project/E3SM/releases/tag/v1.1.0>). The UQTK code and documentation are available from <https://www.sandia.gov/uqtoolkit/>. The exact version of ELM, exact version of UQTK source code, and scripts to produce the plots in this study is archived on Zenodo (<https://doi.org/10.5281/zenodo.5815500>). Matlab version R2019b Update 4 was used to run the processing and plotting scripts. ILAMB version 2 was used in this study, and the package can be accessed at 10.18139/ILAMB.v002.00/1251621. The domain file and surface data file that used to run ELMv1, and processed ISIMP2a runoff data are archived on Zenodo (<https://doi.org/10.5281/zenodo.5815730>). The GRUN runoff dataset was downloaded from <https://doi.org/10.6084/m9.figshare.9228176>.

Thank you,

Donghui and coauthors

Please also note the supplement to this comment:

<https://gmd.copernicus.org/preprints/gmd-2021-401/gmd-2021-401-AC1-supplement.pdf>