

## ***Interactive comment on “Observed and simulated hydroclimatology using distributed hydrologic model from in-situ and multi-satellite remote sensing datasets in Lake Victoria region in East Africa” by S. I. Khan et al.***

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This is a well written and excellent start to what will be a great paper with a few modeling studies. Currently, the paper describes a need, flood to minimize impacts of floods, gives a modeling approach that could offer help, and then does not implement the model or provide studies showing anything other than calibration results and hydro-graphs.

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3 easy things to be added before the paper adds Scientific Significance and Quality are: 1. A calibrated model parameter description, and sensitivity study of these model parameters. Add to the discussion this parameter sensitivity study. 2. Demonstration and reporting in a temporal range that adds significant information for use in flood impact and hazard planning (daily or higher temporal resolution.) 3. Some example forecasts of historically significant flooding events.

Other than that, the paper is well written, provides a unique solution with openly available forcing data sets, and can be the basis for a good hazard management system. I believe these are 3 simple things the authors can add to the paper to make it a substantial contribution to this journal and the sciences in general.

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