

## ***Interactive comment on “Hydrological model assessment for flood early warning in a tropical high mountain basin” by M. C. Rogelis et al.***

### **Anonymous Referee #2**

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This study compared three models: one distributed model (TETIS), one semi-distributed model (TOPMODEL) and one lumped model (HEC HMS soil moisture accounting) in their performance of simulating the discharge of Tunjuelo River basin. Comprehensive and detailed information were provided regarding the study area and process of experiment setup. In general, the article is well organized and the methodology was described clearly. However, it is difficult to find the scientific significance from the study, either from methodology or findings. The authors made considerable efforts to set up the experiment and perform related analysis, and concluded TOPMODEL performed better than the other two models for Tunjuelo River basin. That information alone, which cannot be applied to other basins, is not interesting enough to readers. I also could not tell any innovation in methodology from the paper. Therefore, I would suggest the authors to think more and highlight the important scientific contributions of

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the study, rather than providing a well-written technical report.

Specific comments: Page 2, line 56: it seems no description was provided for the study area before referring to it

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