

***Interactive comment on “A non-stationary model for reconstruction of historical annual runoff on tropical catchments under increasing urbanization (Yaoundé, Cameroon)” by Camille Jourdan et al.***

**Anonymous Referee #1**

Received and published: 22 May 2019

The paper develops and simple regression-based annual runoff model and evaluates the model's performance in data sparse environments in Cameroon to assess the role of urbanization on runoff. The model uses and catchment index I, similar to the CN of the SCS-CN equation. The difference was that this index was designed for annual runoff. I was not able to find any new hypotheses, concepts, science questions and advancements in this paper. I'd would have appreciated if the authors at least used the Budyko framework or simple annual water models like the ABC model, both of which has more sound conceptual basis that involve water and energy. I'm not convinced that this paper deserves publication in HESS. It looks like a nice project report.

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2019-116>, 2019.

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