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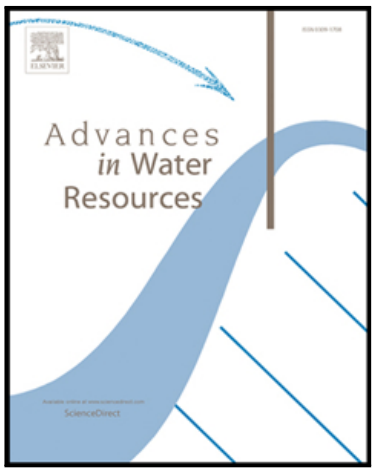

Hillslope-storage Boussinesq model for simulating subsurface water storage dynamics in scantily-gauged catchments

Soumyaranjan Sahoo , Bhabagrahi Sahoo , Sudhindra N. Panda

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Highlights:

- We enhanced the hsB model considering surface ponding, saturation-unsaturation zone dynamics, and bedrock leakage flux.
- We applied the enhanced hsB model in a semi-gauged real headwater catchment.
- We advocated that all the hydrological fluxes must be considered for its field application.

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