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Niger River Basin - Hydrological Modelling: Enhancing Framework Accuracy.

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In hydrology, enhancing existing models are good ways to establishing efficient and accurate conceptual frameworks for hydrological simulation's purposes. Methodologically, a framework that has two parameters and three input variables, called SimulHyd, is used in this study to modelling runoff data, on sixteen watersheds of the *Niger* River and its tributaries, from 1950 to 1999. Purposely, this paper focuses on a model's inter-comparison method, which summarizes, in tables, then in graphics and in maps, the obtained results. We enhance modelling outputs both in modifying the former french's GR2M model to obtain a model called SimulHyd model and in developing a semi-distributed modelling from a lumped modelling approach. SimulHyd stands for Simulation of Hydrological systems.

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