Geoscientific
Model Development

Supplement of

DECIPHeR v1: Dynamic fluxEs and ConnectIvity for Predictions of HydRology

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1 Additional Model Evaluation

In this supplementary document we provide additional analysis of the national-scale model simulations described in 'DECIPHeR v1: Dynamic fluxEs and ConnectIvity for Predictions of HydRology', Coxon et al.

Figure S1 shows the ability of the model to simulate observed flow percentiles (Q95, Q50 and Q5). The results show that for many of the catchments the model can capture these flow percentiles. However, the model tends to overpredict the flow percentiles (particularly for Q5) in drier catchments where runoff is low. These results are consistent with the model results presented in the main paper.
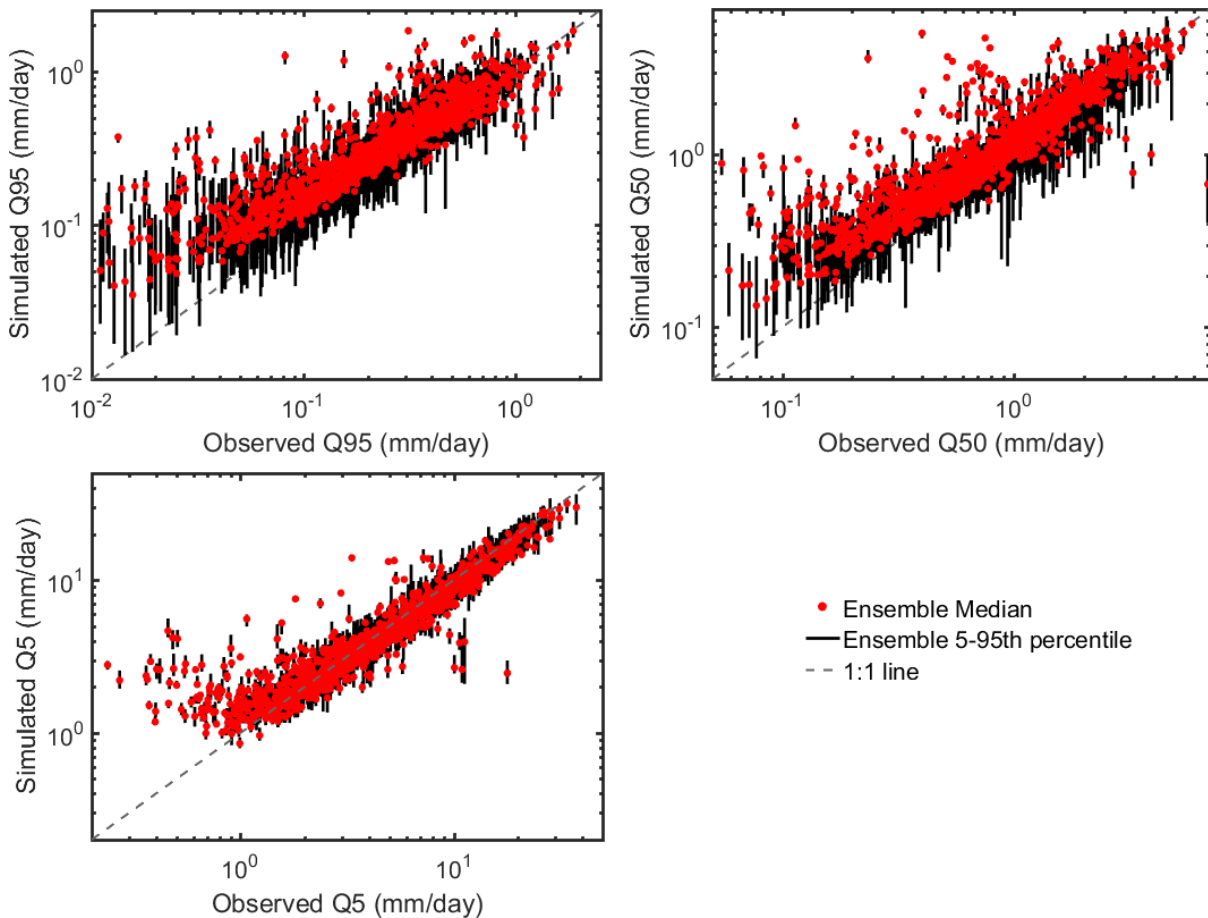

Figure S1. Observed and simulated flow percentiles for each gauge. The red scatter point signifies the median value of the simulated flow percentiles from the behavioural simulations, while the black line shows the 5th-95th percentile of the simulated flow percentiles from the behavioural simulations