1 Supplementary material

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3 Table S1. LoggReff values of initial simulation results using a 9-day window, 61-day window or the whole time series

- 4 respectively for QM bias correction of precipitation input. Simulation results were used for determining window size
- 5 for QM downscaling in the present study.

	Mpanga Catchment		Kiburubutu Catchment	
Window size	ERA-i	TRMM	ERA-i	TRMM
9	0.01	0.09	0.32	0.30
61	0.17	0.19	0.49	0.45
All	0.01	0.21	0.32	0.03

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Mpanga Catchment - All streamflow simulations



8 Figure S1. Semilog plots showing MC hydrographs of simulated (colored lines) and observed (grey filled
9 area) specific discharge. Panels show observed and simulated discharge from calibrations using the non-bias
10 corrected data (top), quantile mapped (QM) and daily percentages (DP) bias corrected data (second), model
11 based bias correction (ModB) bias corrected data (third) and combined QM+ModB and DP+ModB bias
12 corrected data (bottom).

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Figure S1. Semilog plots showing KC hydrographs of simulated (colored lines) and observed (grey filled
area) specific discharge. Panels show observed and simulated discharge from calibrations using the non-bias
corrected data (top), quantile mapped (QM) and daily percentages (DP) bias corrected data (second), model
based bias correction (ModB) bias corrected data (third) and combined QM+ModB and DP+ModB bias
corrected data (bottom).

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