Supplement of

Assessment of Precipitation Error Propagation in Discharge Simulations over the Contiguous United States

Nergui Nanding et.al

Correspondence to: Huan Wu (wuhuan3@mail.sysu.edu.cn)
Figure S1. Scatter plots of the relative RMSE and ABIAS in Stage IV against those in estimated discharges for basins locating at the west (left column) and east (right column) of the 100th meridian line.
**Figure S2.** Propagation factors of $r_{RMSE}$ for basins with different MRVBF classes at monthly timescale when considering peak discharges ($Q \geq 99$th percentile).
Figure S3. Propagation factors of $r_{\text{RMSE}}$ for basins with different size and climate regimes for peak discharges ($Q \geq 99\text{th percentile}$) during the OND season. The horizontal line indicates the propagation factors of one, white dots represent the mean value.
Figure S4. The same as Figure S3, but for the AMJ season.
Figure S5. NSE scores for simulated discharges simulated from QPEs against the observations at annual accumulation scale.
Figure S6. r_RMSE scores for simulated discharges simulated from QPEs against the observations at annual accumulation scale.
Figure S7. Scatter plot of the relative RMSE ($r_{RMSE}$) in precipitation against the $r_{RMSE}$ in estimated discharges using TMPA-3B42 V7 as the references.
Figure S8. Violinplot of propagation factors for $r_{RMSE}$ and $r_{ABIAS}$ using TMPA-3B42 V7 as our references.