

Text 1

Table S1. The volume of inter-basin water transfer in Huangtaiqiao basin

Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
The volume of inter-basin water transfer (10 ⁸ m ³ /year)	5.503	3.587	2.998	3.039	2.723	3.065	2.942	2.288	2.044	3.354

Table S2. The parameters of GR3 and GR3-ibwt

Parameters	Units	Physical meaning	Value	
			GR3	GR3-ibwt
A	mm	Maximum water depth of the runoff generation tank	1335.33	2223.71
B	mm	Maximum water depth of the runoff routing tank	831.96	799.34
C	The length of time period in model calculation	The number of unit line periods	2.00	1.92

Text 2

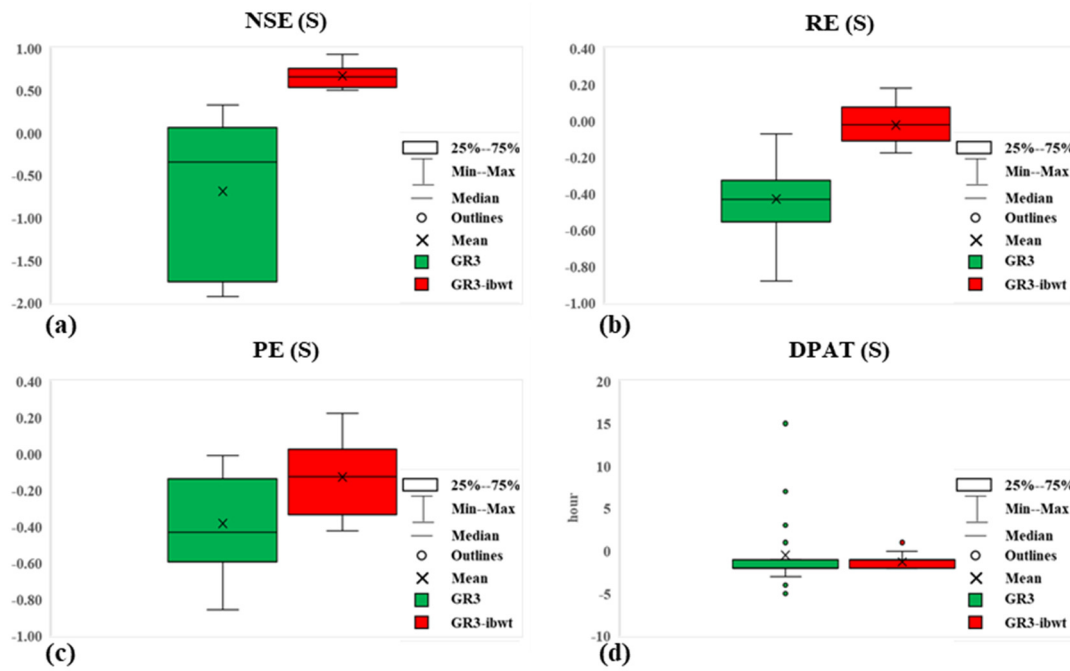


Figure S1. Box diagram of the measured and simulated discharge evaluation in small flood processes

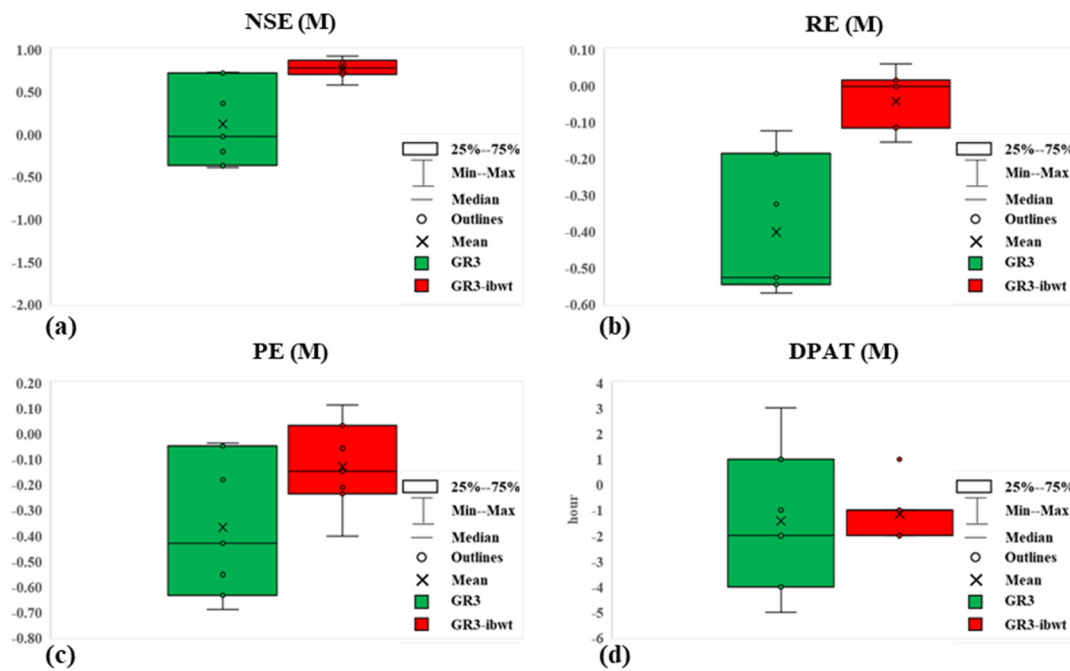


Figure S2. Box diagram of the measured and simulated discharge evaluation in medium flood processes

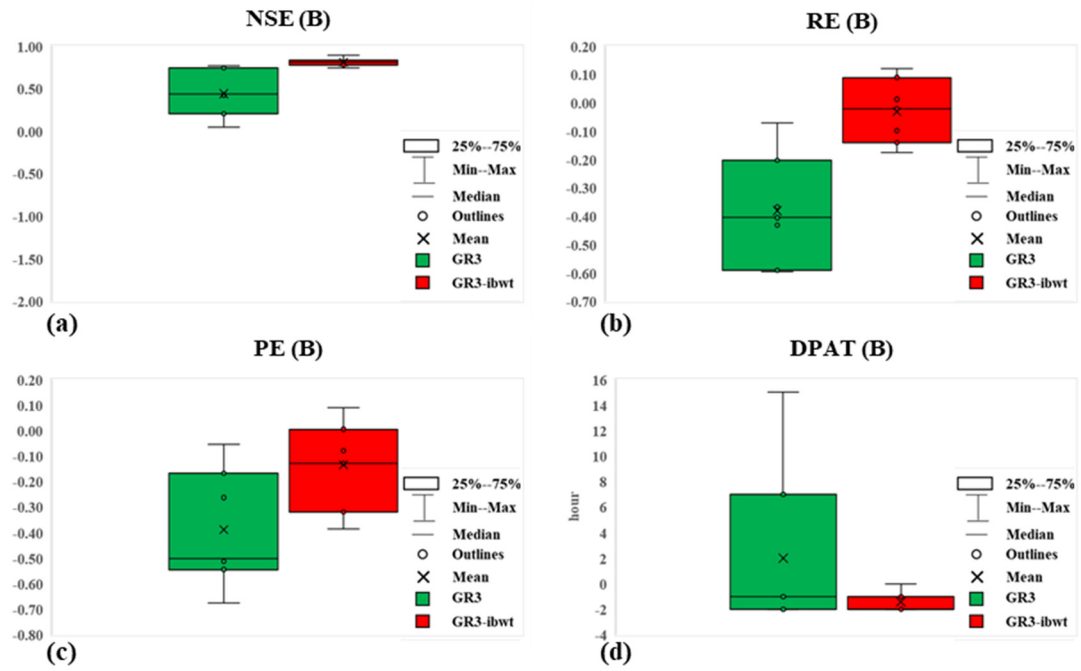


Figure S3. Box diagram of the measured and simulated discharge evaluation in big flood processes