Supplemental Information for

Impacts of climate change on water resources in the major countries along the Belt and Road

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The Nash coefficient, used to evaluate the performance of the model, was calculated by the following formula:

Where is the ensembled runoff data from GCM at coarse spatial resolution around 2° (*Table 1*), is the mean value of total coarse runoff data and is the downscaled result by random forest model at the spatial resolution of 0.1°.