

Supplement of Hydrol. Earth Syst. Sci., 20, 3027–3041, 2016
<http://www.hydrol-earth-syst-sci.net/20/3027/2016/>
doi:10.5194/hess-20-3027-2016-supplement
© Author(s) 2016. CC Attribution 3.0 License.



Supplement of

Mekong River flow and hydrological extremes under climate change

Long Phi Hoang et al.

Correspondence to: Long Phi Hoang (long.hoang@wur.nl; long.hp2002@gmail.com)

The copyright of individual parts of the supplement might differ from the CC-BY 3.0 licence.

1 SUPPLEMENT

2

3

4 S1 Calculating discharge biases and Nash Sutcliffe efficiency indices

5 Relative bias equation:

$$RB = \frac{S_i}{O_i}$$

6 Where:

7 RB: Relative biases

8 S_i : Simulated value of yearly river flow or Q5 or Q95

9 O_i : Observed value of yearly river flow or Q5 or Q95

10 Nash-Sutcliffe efficiency equation:

$$11 \quad NSE = 1 - \frac{\sum_{i=1}^n (O_i - S_i)^2}{\sum_{i=1}^n (O_i - \bar{O})^2}$$

12 Where:

13 NSE: Nash-Sutcliffe efficiency index

14 S_i : Simulated daily river discharge

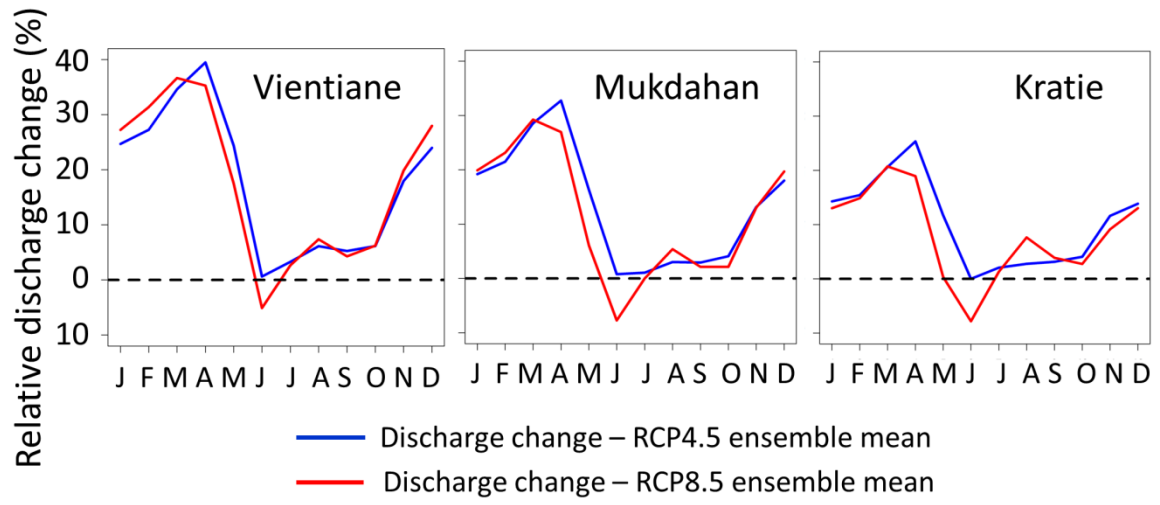
15 O_i : Observed daily river discharge

16 \bar{O} : Mean value of observed daily river discharge

17 References

18 Nash, J., Sutcliffe, J.V. (1970) River flow forecasting through conceptual models part I—A
19 discussion of principles. J Hydrol 10 (3):282-290

20 **S2 Supplementary results**



21

22 Figure S2. Relative monthly discharge change (%) under climate change

23