

## ***Interactive comment on “Hydrological model performance and parameter estimation in the wavelet-domain” by B. Schaefli and E. Zehe***

**Anonymous Referee #1**

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The paper is well written and structured and the presented work is of good scientific quality. The proposed method of applying the wavelet power spectrum for calibrating a rainfall-runoff model is quite interesting. This novel approach is tested thoroughly and the first results demonstrate some potential in order to improve the performance of hydrological models. Since the method is based on the differences between observed and simulated wavelet periodograms, it would be interesting to see an example of these periodograms, although the author mentioned, that the interpretation is difficult. From my point of view the “toy example” could be skipped. On the one hand there are too many examples finally, on the other hand it is not really surprising that the wavelet based method will be superior in the analysis of periodic functions.

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