

***Interactive comment on* “Evaluation and Comparison among Multiple Forcing Data Sets for Precipitation and Shortwave Radiation over Mainland China” by Fan Yang et al.**

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Dear Referee #1

Many thanks for your valuable suggestions and comments! We believe they will help to improve the quality of our manuscript and make it reach the criterion of HESS. In order to reply to your comments, we will use some new independent rainfall data, resample data, and make deep analysis about new results. Since it may take several weeks to get new results, here we give a quick reply to list what we will do.

1. About the precipitation data comparison. As referee pointed out that CLDAS,

CN05.1, and CMFD use CMA rain gauge data, and it is difficult to answer which one is the truth for precipitation. In order to answer this question, we will try to find an independent observation dataset of precipitation. 2. About resampling issue, we will follow referee's suggestion and resample gridded data with bilinear interpolation method and then conduct analysis again. 3. We will also follow referee's valuable suggestion about a comparison in temporal dimension. Moreover, we have invited Dr. Jie He, the developer of CMFD, as a co-author and cooperate together to analyze why CMFD performs better than others. At the same time, we will give more details about CLDAS and other data sets, which will also help to understand their discrepancy. Combining these together, we will have a deep analysis about the performance of new results. 4. We will also revise the minor problems pointed by referee #1.

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Discussion paper

