

Interactive comment on “Linkages between ENSO/PDO signals and precipitation, streamflow in China during the last 100 years” by R. Ouyang et al.

Anonymous Referee #3

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General Comments This research investigated the linkages between ENSO/PDO signals and precipitation, streamflow in China during the last 100 years, which could help understand the potential impacts of climate change on the precipitation and subsequently the streamflow in China. The topic is of interest to HESS. However, the analysis results presented in the paper are not sufficient enough to justify the conclusion with respect to the streamflow impact in China. Additional analysis of the streamflow records is necessary. The manuscript could be published after substantial revisions.

Specific Comments 1) In Section 2.1, since China covers different climate zones, the background information of the geographical divisions and the four river basins selected

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would be provided. Besides the precipitation, the impacts of human activities on the rivers in China over the study period should be taken into account. The reasons for the selection of the four river gauging stations as well as the metadata of the streamflow records are necessary.

2) In Chapter 3, the description of the impacts found in the different regions of China and the four river basins would be improved to give readers a general picture of the findings. Regarding streamflow impacts, additional analysis of the streamflow records is necessary to show the relationship between streamflow and precipitation, and the impact of human activities in the rivers should be addressed too. Correspondingly, the discussion of the findings should be enhanced.

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