

Interactive comment on “Projections of East Asian summer monsoon change at global warming of 1.5 °C and 2 °C” by Jiawei Liu et al.

Anonymous Referee #1

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General Comments:

The authors have examined the projected changes in EASM precipitation intensity at two global warming levels of 1.5°C and 2°C using CMIP5 coupled climate models. Further, an ensemble pattern regression (EPR) method is applied to provide more reliable projections. The authors proved that the multimodel standard deviation has reduced drastically after applying the EPR method. The paper then discusses in detail about the monthly variation in projected precipitation changes over East Asia and the related meteorological parameters, during summer monsoon season. The study is interesting as it tries to minimize the inter-model spread in the projections of EASM.

Other comments:

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1) Page 3, line 23, and throughout the paper. The usage of GMT can be avoided as it gets confused with Greenwich Mean Time.

2) Page 5. Need some more clarity in explaining the EPR method. Eg. It is difficult to find out what is real change (Creal), how it is computed. The variable N is not defined. Similarly, the variable M, is it the number of models?

3) Page 7, line 25, Is it 14 or 15 models? Why 14 models are used, in Figure 5, instead of 19 models.

Interactive comment on Earth Syst. Dynam. Discuss., <https://doi.org/10.5194/esd-2018-2>, 2018.

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