

## ***Interactive comment on* “Significant spatial patterns from the GCM seasonal forecasts of global precipitation” by Tongtiegang Zhao et al.**

### **Anonymous Referee #1**

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The authors used the spatial plotting method to identify significant patterns of fully-coupled GCMs from ten sets of NMME. Overall, the manuscript is well crafted with clear structures. Some grammatical errors exist and need careful proofreading. I have some minor comments.

1. Do you use some bias correction or downscale methods for the NMME forecasts? If yes, suggest to give some details.
2. Suggest to give the difference between the anomaly correlation and the spatial plotting method. Or the advantage of the spatial plotting method against the simple anomaly correlation.
3. Line 102: please check the start updated date of real-time forecasts.

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4. Suggest to add the equation of the anomaly correlation calculation and give some details about the climatology for the anomaly.
5. Suggest to give some explanation for the forecasts of total precipitation in three months.
6. Are captions 4.1 and 4.2 the same? Please check.
7. Line 320: The authors showed the spatial extents of clusters vary by season. Suggest to give more explanations/reasons for this.

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2019-398>, 2019.

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