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Title: Process-Based Flood Frequency Analysis in an Agricultural Watershed Exhibiting Nonstationary Flood Seasonality

Authors: Guo Yu et al.

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Dear Editor and Reviewers,

We would like to thank you again for all of your constructive comments which have greatly improved the quality of this paper. We have modified all the technical issues as suggested by the editor. For Figure 1.a, we have double checked the map and it should be correct. The seemingly elongated map of United States is caused by Plate Carre projection since any projections distort the original map to some degree.

Besides these technical issues, we also addressed one non-technical issue by adding following sentences to page 12, line 6, as suggested by the editor.

*“As mentioned in Step 5 of the SST procedure (Section 4.2), each synthetic rainfall event is randomly paired with seasonally-appropriate initial conditions (soil moisture, snowpack) and air temperature drawn from the continuous simulation (15 years in the case of Stage IV; 69 years for CPC). This creates combinations of initial conditions and forcing that in principle reflect the true variability of these processes.”*

Sincerely,

Guo Yu