

## ***Interactive comment on “Projected Climate Change Impacts on Future Streamflow of the Yarlung Tsangpo-Brahmaputra River” by Ran Xu et al.***

### **Anonymous Referee #3**

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The authors have done a great job on this research as there are few research articles on this topic (Brahmaputra River & Climate Change). However, reading the paper thoroughly, I find there are room for improvements:

1) I am not convinced why the authors have chosen 2020-2035 as the climate change period. The impacts of climate change on water resources, that we have been observing worldwide, is very much unpredictable/uncertain in the early stage of 21st century. The precipitation projection within that period is very uncertain ( model to model variation). Although the early stage of 21st century may be of interest from the water management point of view, a separate analysis of later part of the 21st century is required

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to fulfill the analysis. My strong recommendation would be to consider 2071-2100 as well.

2) Brahmaputra (or Yarlung Tsangpo) is a perennial river and the hydrograph ( especially at Bangladesh location: Bahadurabad) is very steep during monsoon period resulting a huge variation in wet season flow and dry season flow). The enormous stream-flow during monsoon season causes flood in the lower riparian countries ( like Bangladesh). The authors only considered mean annual stream-flow in their analysis while an analysis of maximum annual flows are essential for the completeness of the study.

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