Comment on essd-2021-361
Anonymous Referee #1

Referee comment on "HCPD-CA High-resolution climate projection dataset in Central Asia for ecological and hydrological applications" by Yuan Qiu et al., Earth Syst. Sci. Data Discuss., https://doi.org/10.5194/essd-2021-361-RC1, 2021

Through a dynamic downscaling approach, the authors provided a high-resolution (9km) climate dataset for CA covering 10 commonly used meteorological elements. The manuscript is well organized while requiring minor revisions.

- Title: In fact, this study does not show ecological or hydrological applications of this high-resolution dataset. Therefore, the phrase “for ecological and hydrological applications” should be removed from the title.
- Introduction: Why this method is used for downscaling of climate projections. A criticism-featured literature review on downscaling methods is needed.
- Model and experiments- Bias-correction technique: why did you choose these three GCMs (MPI-ESM-MR, CCSM4 and HadGEM2-ES)? The authors need to add an explanation in the manuscript.