Reply on RC2
Yuan Qiu et al.

Author comment on "HCPD-CA: high-resolution climate projection dataset in central Asia"
by Yuan Qiu et al., Earth Syst. Sci. Data Discuss.,
https://doi.org/10.5194/essd-2021-361-AC2, 2021

Thanks for your comments. Below are your replies point by point:

1. We will upload four static variables from the simulation to the data repository. They are terrain height, landmask (1 for land, 0 for water), soil category, and land use category. The HCPD-CA dataset will be updated before we pose final author comments.

2. The figures about the spatial distribution of biases will be added in the supplementary information, to help the readers have a basic impression on the accuracy of the data. To let the readers directly know the quality of each simulated variables, we will make a table which summarizes their statistic metrics (spatial correlation coefficient and root mean square error) over CA and its climate subregions. We agree that elevation differences between the model and the observations should be taken into account when evaluating the model, to give fairer assessments. We will adjust some model simulated variables to the elevation of the observations and then compare the adjusted model data and the observations.

3. The stations' data is from Global Historical Climatology Network (GHCN) of NOAA National Climatic Data Center.