Reply on RC1
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-AC1, 2021

- Title: We will remove "for ecological and hydrological applications" from the title.
- Introduction: We will add a review of the downscaling method, to explain the necessity of using this method for projecting the local climate in Central Asia.
- Model and experiments - Bias correction technique: The reasons why we chose these three GCMs (MPI-ESM-MR, CCSM4, and HadGEM2-ES) are as below: they can provide all the variables that are needed for driving the regional model; they have relatively high horizontal resolution among the CMIP5 models; they have relatively good performance in simulating the local temperature and precipitation in Central Asia (see Fig. S1-4 in Qiu et al., 2021), though systematic biases exist partially due to their coarse resolution.

Reference: