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Supplement of

Brief communication: Sensitivity analysis of peak water to ice thickness and temperature: A case study in the Western Kunlun Mountains of the Tibetan Plateau

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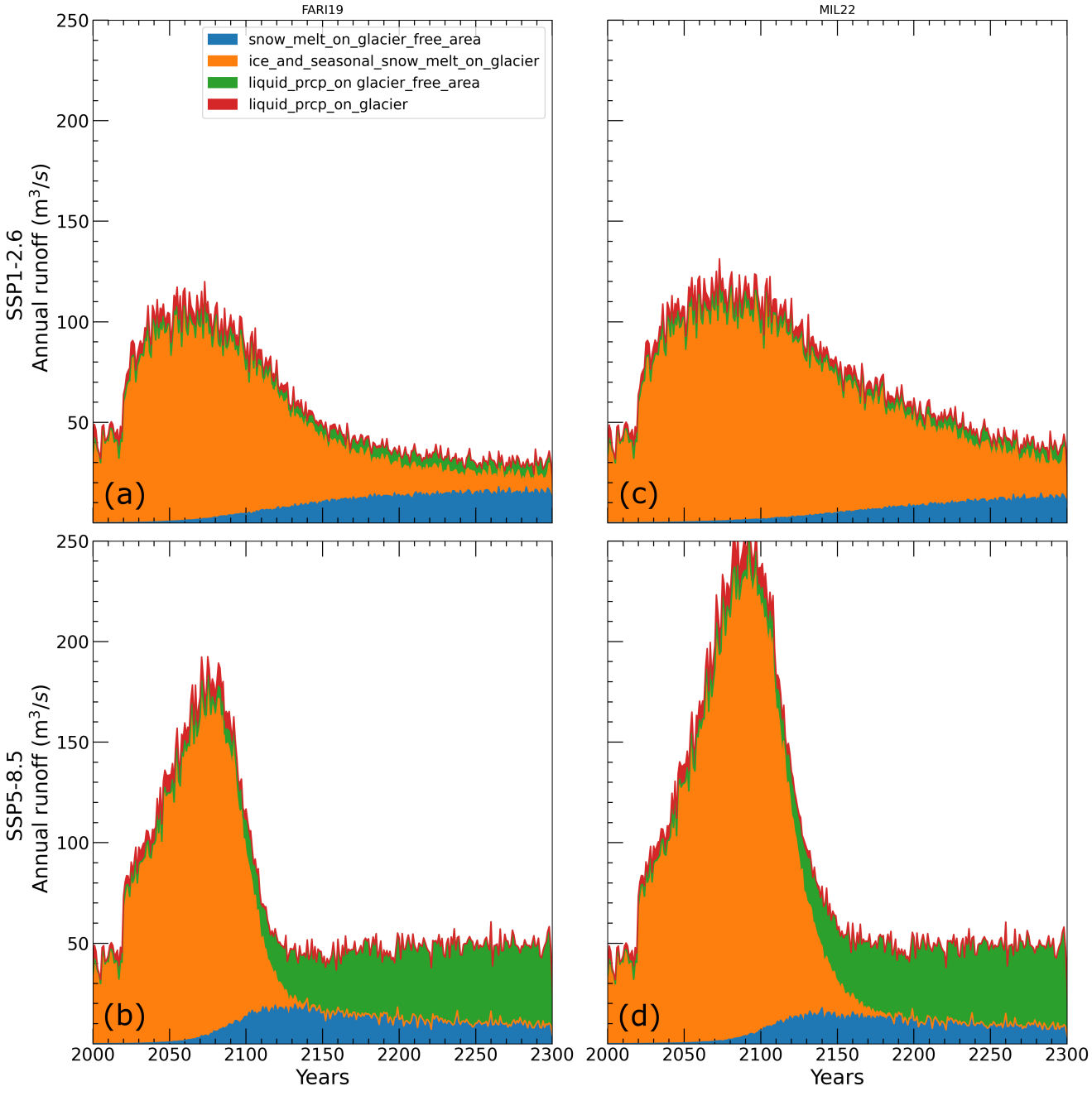

Figure S1. Simulated evolution of cumulative annual runoff for all 160 glaciers with its four different contributions, using FARI19 dataset ((**a**) & (**b**)), and MIL22 dataset ((**c**) & (**d**)) under SSP1-2.6 and SSP5-8.5.

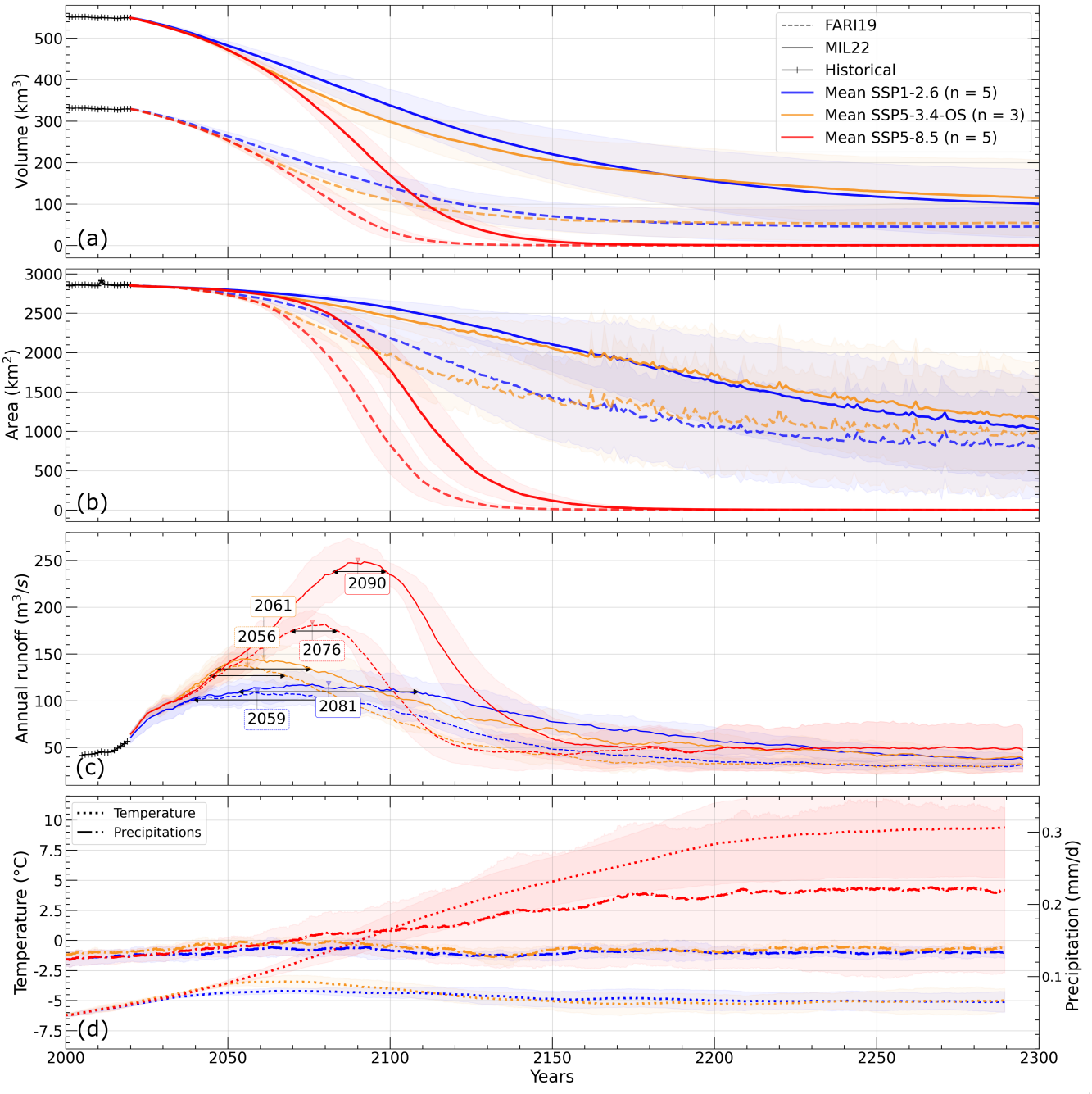

Figure S2. Projections of glacier evolution in the region of interest: the cumulative of all 160 glaciers **(a)** volumes, **(b)** areas and **(c)** annual runoffs, with an assessment of peak water timing, accompanied by **(d)** mean temperatures and precipitations projections under various SSPs (multi-GCM mean shown in bold, shading is the mean ±1 standard deviation of the GCM ensemble).

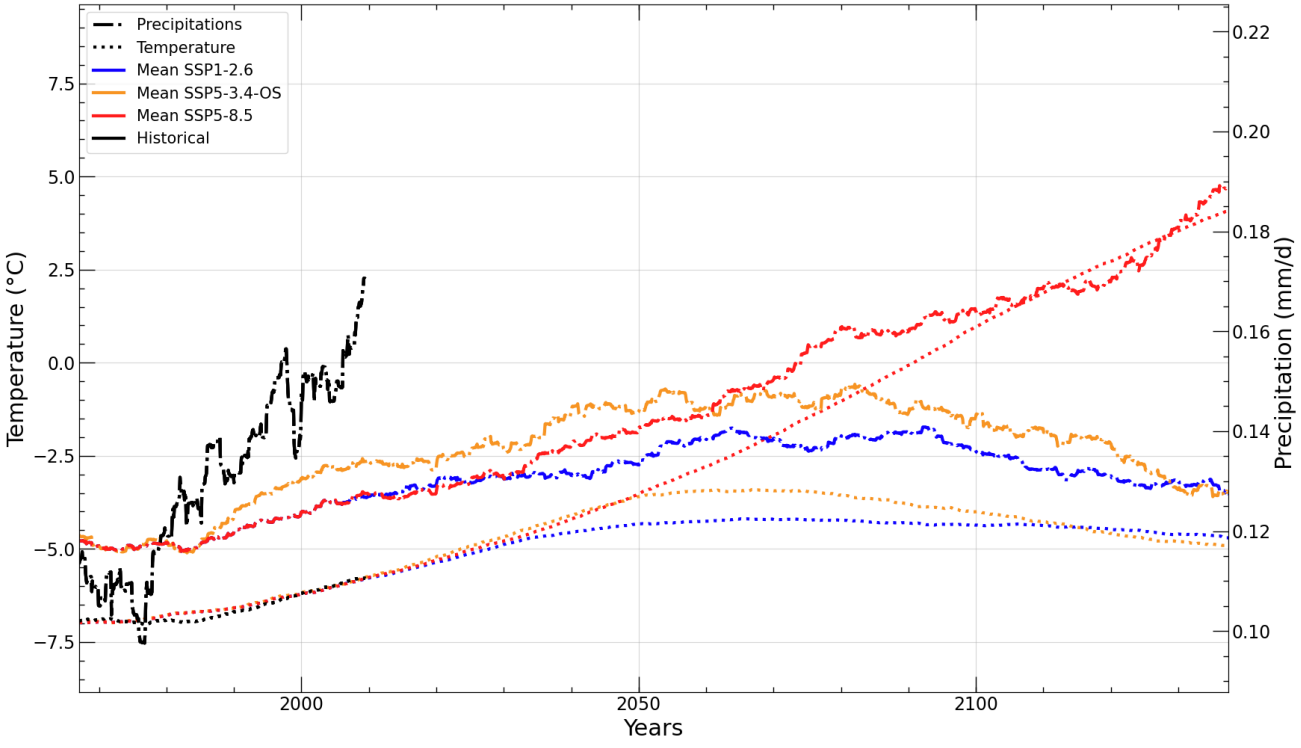

Figure S3. Multi-GCMs mean temperatures and precipitation projections under various SSPs, with historical climate data from W5E5 shown in black.