Supplement of

Assessing decadal to centennial scale nonstationary variability in meteorological drought trends

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Figure S 1. Compare the distribution of precipitation in GPCC VS 10 nearest neighbors.



Figure S 1 (Continue). Compare the distribution of precipitation in GPCC VS 10 nearest neighbors.



Figure S 2. nMAE (Normalized Mean Absolute Error) of dsNASPA compared to GPCC



Figure S 3. (upper) Compare the precipitation time series of GPCC (red). downscaled NASPA (black) and its nearest neighbors(sky), (lower) GPCC VS downscaled NASA



Figure S 4 (Continue). (upper) Compare the precipitation time series of GPCC (red). downscaled NASPA (black) and its nearest neighbors(sky), (lower) GPCC VS downscaled NASA



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Figure S 4. Modeled mean, drought and pluvials anomaly (SPI = -1.5 and +1.5, marked shaded area)



Figure S 4 (Continue). Modeled bias in average precipitation in each dataset



Figure S 4 (Continue). Modeled bias in average precipitation in each dataset



Figure S 4 (Continue). Modeled bias in average precipitation in each dataset



Figure S 5. Modeled mean trends marked the periods experiencing significant changes (upper), the first derivatives of modeled mean (lower).



Figure S 5 (Continue). Modeled mean trends marked the periods experiencing significant changes (upper), the first derivatives of modeled mean (lower).