

Table S1: Statistical characteristics of observed and raw or downscaled monthly TMP and PRE values for 1951 to 2016 for the 745 weather stations. The values showed are standard deviations of evaluation results among the weather stations.

	Res	MAE _c	MAE _l	MAE _n	RMSE _c	RMSE _l	RMSE _n	NSE _c	NSE _l	NSE _n
Minimum	30'	1.655			1.641			0.324		
TMP (°C)	10'	1.496	1.495	1.495	1.497	1.497	1.496	0.319	0.319	0.319
	5'	1.172	1.172	1.171	1.184	1.184	1.184	0.209	0.209	0.209
	2.5'	0.879	0.879	0.878	0.904	0.904	0.903	0.130	0.130	0.130
	0.5'	0.742	0.742	0.742	0.779	0.779	0.778	0.092	0.092	0.092
Mean	30'	1.553			1.547			0.333		
TMP (°C)	10'	1.559	1.559	1.559	1.555	1.555	1.555	0.371	0.371	0.371
	5'	1.212	1.212	1.212	1.211	1.210	1.210	0.248	0.248	0.249
	2.5'	0.897	0.897	0.897	0.905	0.905	0.904	0.150	0.150	0.150
	0.5'	0.746	0.746	0.745	0.758	0.758	0.758	0.088	0.088	0.088
Maximum	30'	1.826			1.811			0.530		
TMP (°C)	10'	1.956	1.956	1.955	1.986	1.986	1.985	0.769	0.769	0.769
	5'	1.584	1.584	1.583	1.615	1.615	1.614	0.570	0.570	0.570
	2.5'	1.197	1.197	1.195	1.230	1.230	1.229	0.296	0.296	0.296
	0.5'	1.039	1.039	1.038	1.072	1.072	1.071	0.204	0.204	0.204
PRE	30'	12.060			18.985			1.043		
(mm)	10'	11.086	11.090	11.097	17.660	17.659	17.639	0.427	0.427	0.426
	5'	11.069	11.073	11.133	17.650	17.650	17.707	0.741	0.741	0.741
	2.5'	11.124	11.128	11.179	17.689	17.689	17.731	0.487	0.487	0.488
	0.5'	11.274	11.277	11.331	17.886	17.884	17.933	0.490	0.490	0.490

Notes: Res indicates the spatial resolution. The subscripts *c*, *l*, and *n* indicate bicubic, bilinear, and nearest-neighbor interpolations, respectively. The raw TMPs and PRE are at a spatial resolution of 30' and were compared directly to the observed data.