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Supplement of

1 km monthly temperature and precipitation dataset for China from 1901 to 2017

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Table S1: Statistical characteristics of original/downscaled and observed monthly TMPs and PRE in the time series (1951–2016). The values shown here are the standard errors at all independent weather stations.

	Res	MAE_c	MAE_l	MAE_n	$RMSE_c$	$RMSE_l$	$RMSE_n$	NSE_c	NSE_l	NSE_n	Cor_c	Cor_l	Cor_n
Minimum TMP (°C)	30'	0.074			0.073			0.015			0.001		
	10'	0.053	0.066	0.073	0.077	0.066	0.073	0.023	0.016	0.014	0.000	0.001	0.000
	5'	0.060	0.050	0.058	0.033	0.051	0.055	0.012	0.009	0.007	0.001	0.000	0.000
	2.5'	0.032	0.039	0.046	0.009	0.006	0.004	0.007	0.006	0.011	0.000	0.000	0.000
	0.5'	0.043	0.033	0.031	0.044	0.034	0.036	0.005	0.004	0.003	0.000	0.000	0.000
Mean TMP (°C)	30'	0.072			0.071			0.016			0.000		
	10'	0.054	0.066	0.071	0.049	0.066	0.066	0.011	0.017	0.020	0.000	0.000	0.000
	5'	0.098	0.051	0.044	0.048	0.051	0.034	0.014	0.010	0.009	0.000	0.000	0.001
	2.5'	0.029	0.038	0.036	0.055	0.034	0.058	0.011	0.006	0.008	0.001	0.000	0.000
	0.5'	0.059	0.037	0.049	0.041	0.038	0.035	0.005	0.006	0.013	0.000	0.000	0.000
Maximum TMP (°C)	30'	0.082			0.081			0.025			0.000		
	10'	0.050	0.075	0.064	0.093	0.077	0.085	0.033	0.021	0.024	0.000	0.000	0.001
	5'	0.042	0.066	0.033	0.074	0.068	0.046	0.022	0.020	0.016	0.001	0.000	0.000
	2.5'	0.077	0.052	0.067	0.033	0.053	0.040	0.021	0.013	0.016	0.000	0.000	0.000
	0.5'	0.060	0.052	0.051	0.055	0.053	0.054	0.018	0.020	0.036	0.000	0.000	0.000
PRE (mm)	30'	0.440			0.691			0.038			0.004		
	10'	0.489	0.419	0.455	0.699	0.671	0.715	0.015	0.021	0.020	0.003	0.003	0.002
	5'	0.554	0.384	0.246	0.701	0.613	0.549	0.034	0.010	0.019	0.002	0.003	0.002
	2.5'	0.498	0.359	0.654	0.617	0.571	0.666	0.018	0.017	0.032	0.003	0.003	0.003
	0.5'	0.385	0.332	0.454	0.482	0.527	0.715	0.027	0.011	0.014	0.003	0.003	0.003

Notes: Res indicates spatial resolution. Subscripts c, l, and n indicate bicubic, bilinear, and nearest-neighbor interpolations, respectively. The original TMPs and PRE are the 30' CRU data and are directly compared with the observed data. Evaluations at 10', 5', 2.5', and 0.5' pertain to the downscaled datasets. MAE, RMSE, NSE, and Cor indicate the mean absolute error, root-mean-square error, Nash–Sutcliffe efficiency coefficient, and correlation coefficient, respectively.