

## Supplementary Materials

Table S1: Bias of monthly mean temperature (°C) between ERA-Interim and observations at all 24 stations in 1979-2017.

No	January	February	March	April	May	June	July	August	September	October	November	December
1	+0.8	-0.1	-1.1	-1.5	-1.3	-0.9	-0.5	-0.3	-0.4	-0.3	-0.1	+0.6
2	+0.7	-0.6	-1.7	-2.3	-2.5	-2.1	-1.7	-1.7	-1.7	-1.3	-0.1	+1.1
3	+0.5	-0.1	-0.8	-1.3	-1.3	-1.0	-0.7	-0.9	-1.1	-1.1	-0.5	+0.6
4	+0.2	-0.6	-1.2	-1.4	-1.3	-1.0	-0.8	-0.9	-0.8	-0.6	-0.6	+0.4
5	-0.8	-1.5	-2.3	-2.8	-2.6	-2.2	-1.7	-1.8	-2.0	-2.1	-1.8	-0.5
6	-1.0	-2.4	-3.9	-5.2	-5.2	-4.6	-4.3	-4.1	-3.8	-3.4	-3.0	-1.1
7	-0.1	-1.4	-3.0	-4.1	-3.7	-2.9	-2.7	-2.8	-2.6	-2.2	-1.9	-0.3
8	-1.1	-1.9	-2.3	-2.7	-2.5	-1.9	-1.8	-2.3	-2.6	-2.4	-2.0	-1.2
9	-0.4	-0.3	-1.1	-1.9	-1.4	-0.6	-0.3	-0.9	-1.5	-1.4	-1.3	-0.7
10	-1.3	-1.9	-2.3	-2.6	-2.1	-1.4	-1.2	-1.6	-1.7	-1.9	-1.9	-1.3
11	+1.0	+2.7	+3.6	+3.5	+3.8	+4.0	+4.0	+3.6	+2.9	+2.4	+1.7	+0.9
12	-2.1	-2.2	-1.9	-1.5	-1.0	-0.5	-0.2	-0.5	-0.9	-1.4	-1.9	-2.0
13	+0.7	-0.8	-2.0	-2.2	-1.8	-1.2	-1.2	-1.6	-1.5	-1.4	-0.8	+1.1
14	-0.7	-1.0	-0.8	-0.7	-1.1	-1.6	-1.9	-1.8	-1.4	-1.0	-0.3	-0.4
15	-1.9	-3.2	-3.5	-3.6	-5.1	-5.6	-5.8	-5.7	-5.4	-3.4	-2.0	-1.2
16	-0.3	-1.1	-1.1	-1.5	-2.5	-2.6	-2.6	-2.5	-2.9	-1.4	0.0	+0.5
17	-2.1	-2.8	-2.8	-4.2	-4.4	-4.1	-3.8	-3.7	-4.2	-3.7	-2.5	-1.4
18	-1.2	-1.6	-1.3	-1.0	-1.2	-1.4	-1.5	-1.4	-1.3	-1.2	-1.1	-1.2
19	-3.6	-3.8	-3.8	-3.7	-3.5	-3.3	-2.9	-2.8	-2.8	-3.1	-3.7	-3.5
20	-2.9	-2.7	-2.2	-2.3	-2.8	-2.7	-2.6	-2.5	-2.5	-2.0	-2.1	-3.2
21	-1.9	-3.0	-2.6	-3.3	-3.3	-3.0	-2.5	-2.7	-3.3	-3.0	-1.4	-0.9
22	-1.2	-2.0	-3.3	-4.2	-3.8	-3.4	-3.3	-3.4	-3.2	-3.1	-3.0	-1.4
23	-2.3	-2.7	-3.5	-4.3	-3.9	-3.2	-3.0	-3.2	-3.4	-3.4	-2.9	-2.3
24	-1.7	-2.8	-3.9	-4.1	-3.4	-3.0	-3.0	-3.1	-3.2	-3.3	-3.2	-1.6

Table S2: Comparison of ERA-Interim annual mean temperature with observations at all 24 stations in 1979-2017.

No	r	Bias (°C)	RMSE (°C)
1	0.987	-0.4	±0.4
2	0.979	-1.2	±1.2
3	0.971	-0.7	±0.7
4	0.970	-0.7	±0.7
5	0.947	-1.8	±1.8
6	0.914	-3.5	±3.5
7	0.905	-2.3	±2.3
8	0.931	-2.1	±2.1
9	0.910	-1.0	±1.0
10	0.904	-1.8	±1.8
11	0.930	+2.8	±2.8
12	0.910	-1.3	±1.4
13	0.959	-1.0	±1.1
14	0.943	-1.1	±1.1
15	0.947	-3.9	±3.9
16	0.898	-1.5	±1.5
17	0.882	-3.3	±3.3
18	0.951	-1.3	±1.3
19	0.950	-3.4	±3.4
20	0.887	-2.5	±2.6
21	0.834	-2.6	±2.6
22	0.936	-2.9	±2.9
23	0.385	-3.2	±3.2
24	0.926	-3.0	±3.0

Table S3: Annual averaged  $r$ , Bias and RMSE for different elevation groups in 1979-2017.

	$r$	Bias (°C)	RMSE (°C)
1000-1500	0.959	-1.5	$\pm 1.5$
1500-2000	0.924	-1.9	$\pm 1.9$
2000-2500	0.672	-2.1	$\pm 2.2$
2500-3000	0.912	-2.3	$\pm 2.3$
3000-3500	0.915	-1.3	$\pm 2.7$