



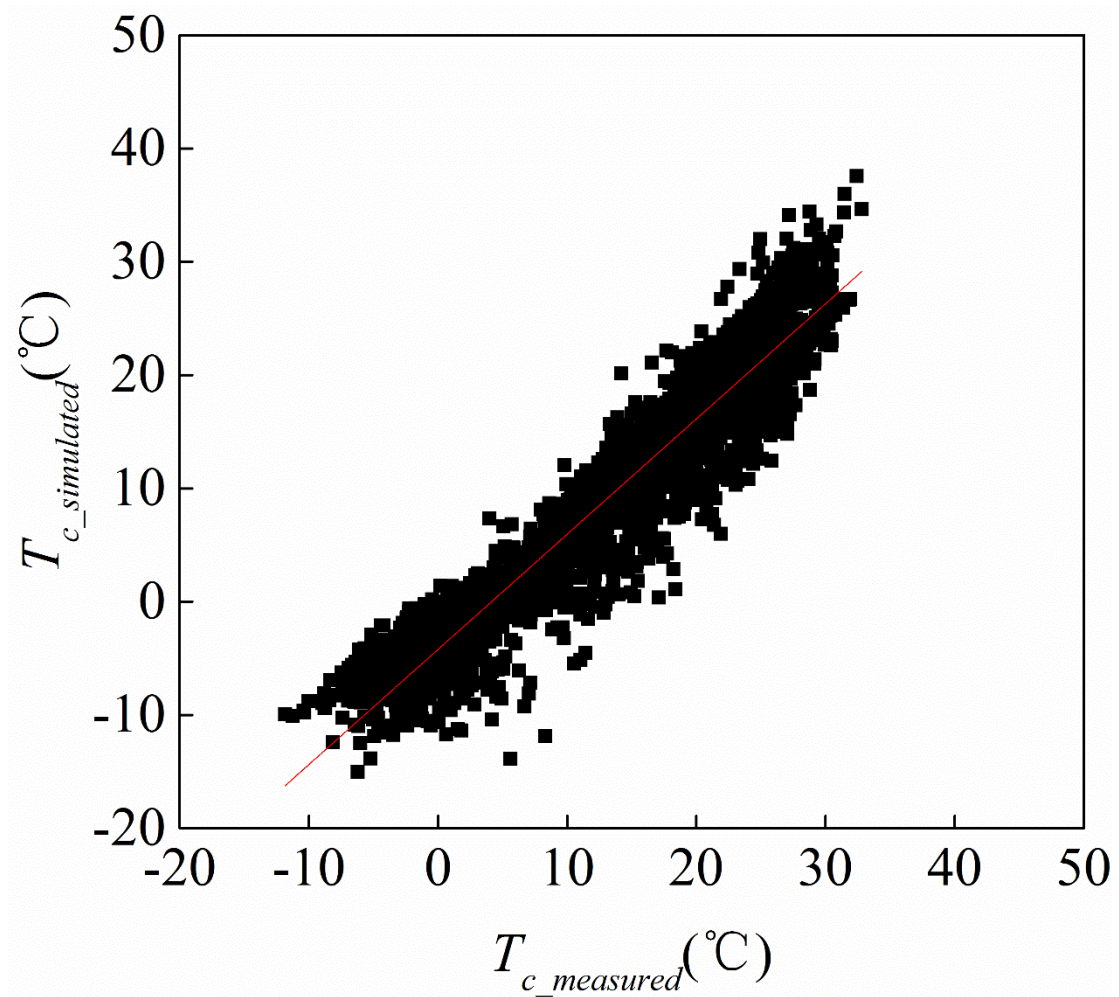
*Supplement of*

## **Divergent climate feedbacks on winter wheat growing and dormancy periods as affected by sowing date in the North China Plain**

**Fengshan Liu et al.**

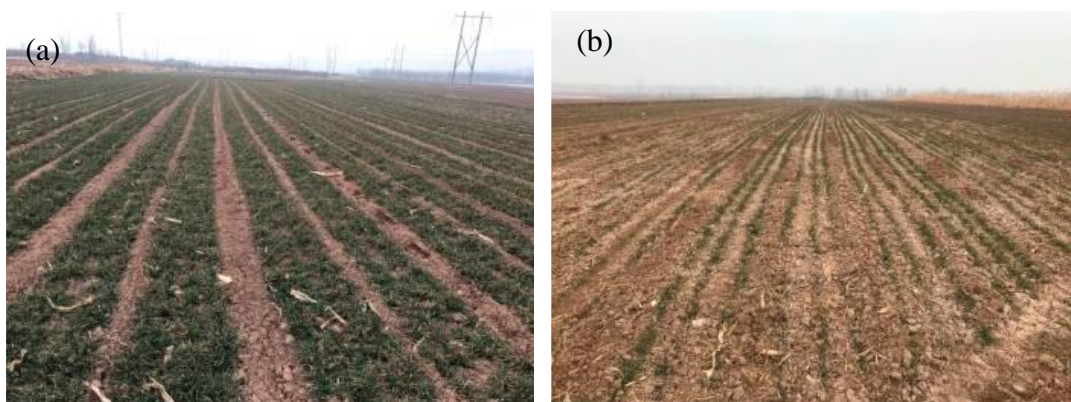
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**Fig.S1** The relationship between simulated canopy temperature ( $T_{c\_simulated}$ ) and measured canopy temperature ( $T_{c\_measured}$ ) at Yucheng station over 2003-2010

Linear regression equation:  $T_{c\_simulated} = 1.02 * T_{c\_measured} - 4.22$ ,  $R^2 = 0.91$ ,  $p < 0.001$



**Fig.S2** Land surface characteristics of winter wheat in re-greening period for (a) early and (b) late sowing date. Photos taken by Liu Fengshan in Fengjiafangzi Village,

Jinzhongzi Town, Anqiu City, Shandong Province, on February 25, 2018.

**Table S1** The coverage differences between two scenarios of snow and crop in the 4 phases at selected 10 stations

Stations	Snow coverage				Crop coverage			
	Phase 1	Phase 2	Phase 3	Phase 4	Phase 1	Phase 2	Phase 3	Phase 4
Miyun	0	0	0	0	0.927	0.009	0	0
Baodi	0	0	0.01	0	0.919	0.011	0	0
Tangshan	0	0	0	0	0.917	0.013	0	0
Huanghua	0	0	0	0	0.827	0.002	0	-0.001
Weifang	0	0	0	0	0.82	0	0	0
Xinxiang	0	0	0.01	0	0.768	0	0	0.001
Zhengzhou	0	0	0	0	0.764	0	0	0.002
Shangqiu	0	0	0.01	0.01	0.753	0	0	0.001
Nanyang	0	0	0.01	0	0.719	0	0	0.003
Zhumadian	0	0	0.01	0	0.741	0	0	0.003