

Supplementary Materials

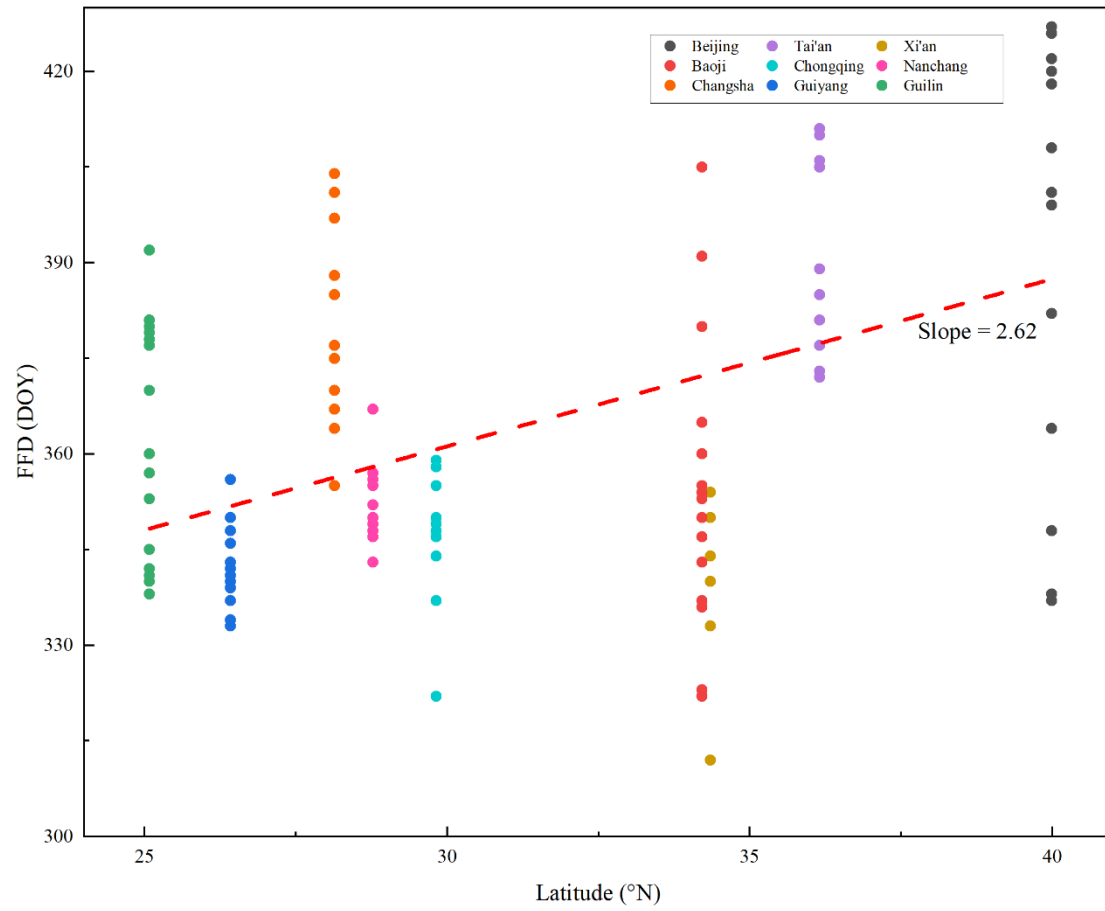


Figure S1 The relationship between FFD and latitude in Chinese wintersweet.

Table S1 Basic information on phenological observation sites includes the site's name, latitude, longitude, altitude, observation period, first flowering dates, and end flowering dates.

No.	Site	Latitude/ N	Longitude/ E	Altitude/m	Observation Period	FFD _M	EFD _M
1	Beijing	39° 59' 23"	116° 16' 15"	52	2003-2020	38	77
2	Tai'an	36° 9' 51"	117° 9' 00"	127.5	2011-2020	25	81
3	Xi'an	34° 12' 30"	108° 57' 35"	438	2003-2019	-11	67
4	Baoji	34° 21'	107° 03'	596	2013-2020	-29	71
5	Chongqing	29° 49'	106° 20'	250	2003-2020	-18	15
6	Nanchang	28° 46'	115° 50'	50	2003-2020	-14	42
7	Changsha	28° 08' 10"	112° 59' 32"	92	2005-2020	13	36
8	Guiyang	26° 25'	106° 40'	1095	2003-2020	-22	37
9	Guilin	25° 04' 51"	110° 18' 00"	180	2003-2020	-2	45

FFD_M means the timing of the first flowering date; EFD_M means the timing of the end flowering date. "-" represents the number of days until the end of the year.

Table S2 The result of a linear fitted equation of the FFD of wintersweet at nine sites in China during the past two decades. Including Linear fitted equation, Slope(d/a), Pearson's r, R², and P-value.

No.	Site	Linear fitting	Slope(d/a)	Pearson's r	R ²	P-value
1	Beijing	y = -3.454x + 6986.7	-3.454 ± 1.426	-0.518	0.268	0.028<0.05
2	Tai'an	y = -2.442x + 4948.6	-2.442 ± 1.610	-0.473	0.223	0.168>0.05
3	Xi'an	y = -1.842x + 3691.7	-1.842 ± 1.038	-0.429	0.184	0.098>0.05
4	Baoji	y = -5.5x + 11062	-5.5 ± 1.447	-0.841	0.707	0.009<0.01
5	Chongqing	y=-0.278x+539.7	-0.278 ± 0.458	-0.160	0.026	0.554>0.05
6	Nanchang	y=0.265-548.4	0.265 ± 0.311	0.208	0.043	0.407>0.05
7	Changsha	y=-1.799x+3633.9	-1.799 ± 0.691	-0.586	0.343	0.022<0.05
8	Guiyang	y=0.041x-105.6	0.041 ± 0.277	0.037	0.001	0.883>0.05
9	Guilin	y=-2.578x+5184.8	-2.578 ± 0.516	-0.781	0.610	<0.001

The x in the equation represents the year and y represents the FFD.