Table S2. Partial correlation coefficients of phenological metrices with climatic factors using 20℃ and 30℃ as CDD temperature threshold.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Base temperatures | Phenological  metric | CDD | PPT | SSD | R2 |
| 20 | FFD | -0.70\*\*\* | -0.16 | 0.05 | 0.48\*\*\* |
|  | PFD | -0.72\*\*\* | -0.04 | 0.08 | 0.51\*\*\* |
|  | EFD | -0.70\*\*\* | 0.00 | 0.16 | 0.49\*\*\* |
| 30 | FFD | -0.80\*\*\* | -0.12 | -0.02 | 0.63\*\*\* |
|  | PFD | -0.81\*\*\* | 0.06 | -0.03 | 0.65\*\*\* |
|  | EFD | -0.77\*\*\* | 0.07 | 0.11 | 0.59\*\*\* |

BBD, date of bud-burst; FLD, date of first leaf unfolding; 50LD, date of 50% of leaf unfolding; FFD, first flowering day; PFD, peak flowering day; EFD, end of flowering day. CDD, PPT and SSD indicate cold degree-days, accumulated precipitation and sunshine duration, respectively. All climatic factors ( CDD, PPT and SSD) for FFD, PFD and EFD were calculated based on daily meteorological data from 1st August to 31st October. \* indicates p < 0.05, \*\* indicates p < 0.01, and \*\*\* indicates p < 0.001.