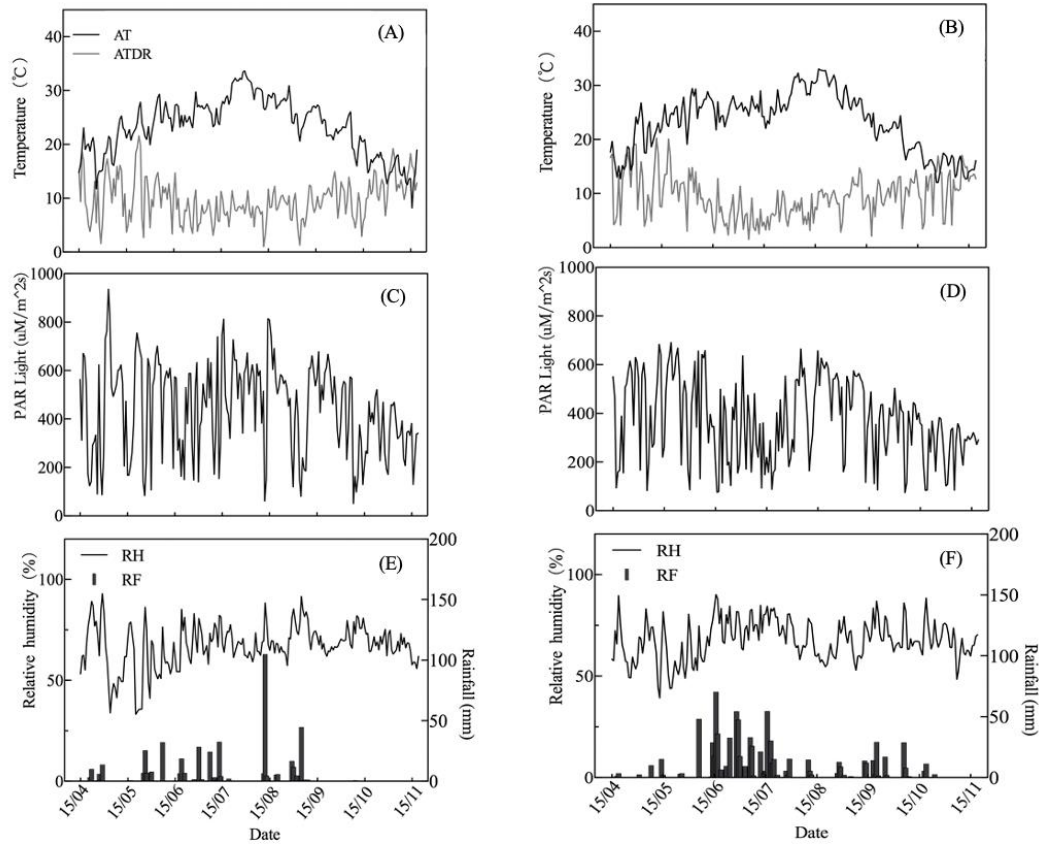
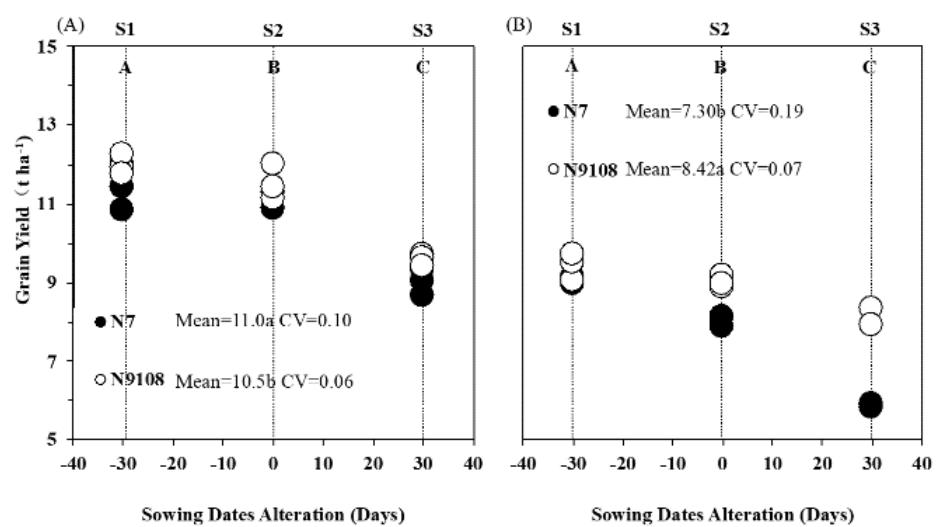


Supplementary Figure S1. Tiller dynamics in different positions of N7 (A-C) and N9108 (D-F).



Supplementary Figure S2. The daily temperature (A, B), PAR (C, D), humidity and rainfall (E, F) of japonica rice in the whole growth duration of 2019 (A, C, E) and 2020 (B, D, F).



Supplementary Figure S3. Grain yield of two japonica rice varieties in 2019 (A) and 2020 (B).

Supplementary Table S1. Branching structure of panicles in different tiller positions under different sowing dates.

Varieti	Treatme	Main Stem			Primary Tiller			Secondary Tiller			Tertiary Tiller		
		Mai	Spikele	SG	Prima	Spikele	SG	Seconda	Spikele	SG	Tertia	Spikele	SG
N7	S1	20.3	178.1	55.6	44.4	135.1	51.9	21.4	113.3	36.3	13.9	89.3	36.
	S2	25.5	181.8	57.1	45.9	140.1	56.8	20.9	114.3	40.1	7.7	90.1	42.
	S3	33.4	180.3	56.7	53.3	138.4	59.1	13.3	109.6	41.4	0.0	0.0	0.0
	Mean	22.4	180.1	56.5	47.9	137.9	55.9	22.5	112.4	39.3	7.2	59.8	26.
N9108	S1	23.4	174.7	51.3	36.3	139.4	49.8	22.8	128.1	36.7	12.8	91.3	31.
	S2	26.7	177.4	50.9	45.5	141.7	52.2	20.1	130.1	36.2	7.7	87.6	33.
	S3	33.1	173.4	48.9	56.2	138.7	52.3	17.7	124.8	41.2	0.0	0.0	0.0
	Mean	27.0	175.2	50.4	46.0	139.9	51.4	20.2	127.7	38.0	6.8	59.6	21.