

Supplemental Materials

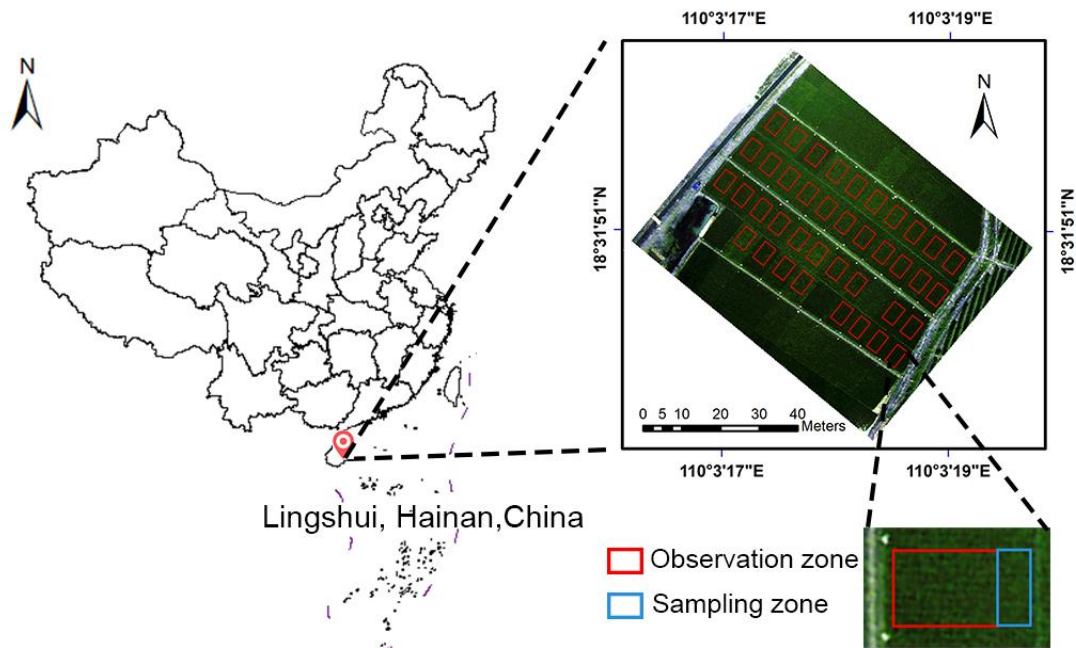


Fig. S1 Study area in the Hybrid Rice Experiment and Research Base of Wuhan University, Lingshui, HaiNan, China.

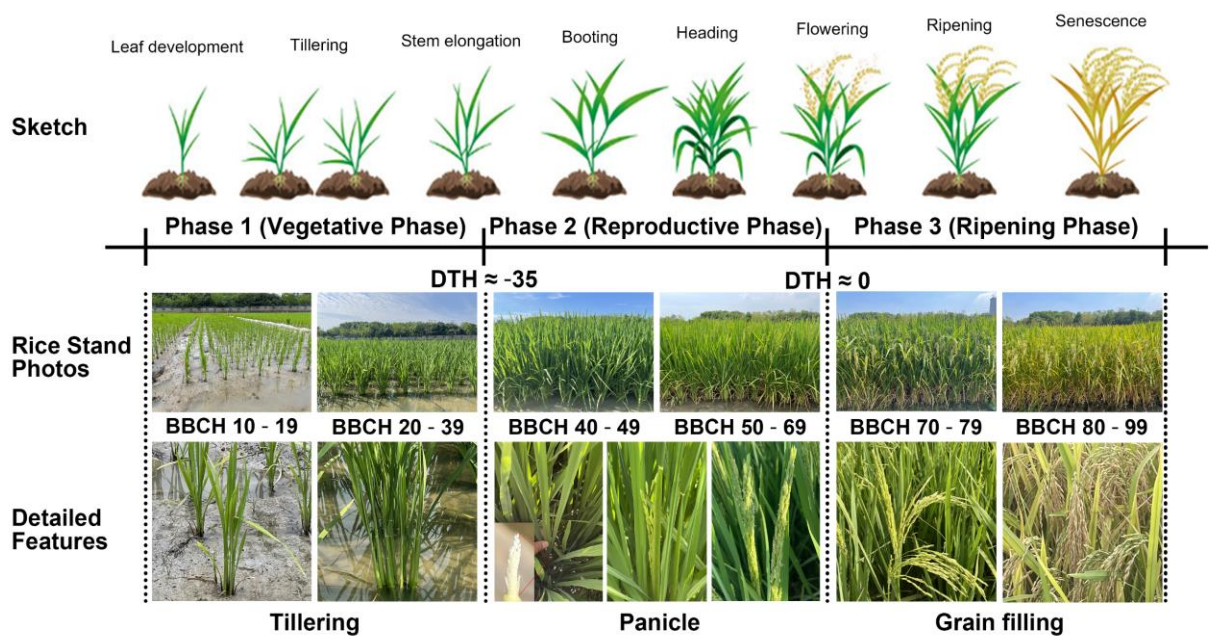


Fig. S2 Scheme of key phases of the rice phenology (modified after (IRRI, 2020)). DTH: Days to Heading, BBCH: *Biologische Bundesanstalt Bundessortenamt und Chemische Industrie* (Lancashire et al., 1991).

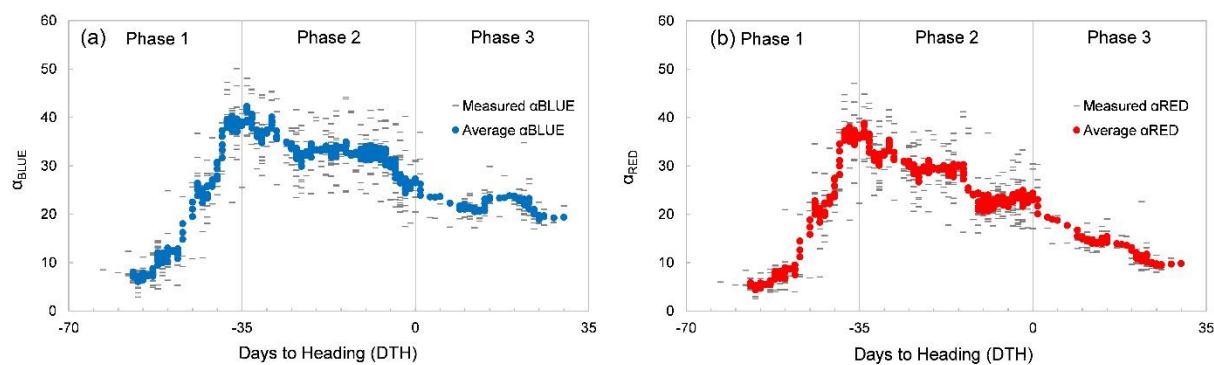


Fig. S3 Temporal behavior of (a) α_{BLUE} and (b) α_{RED} during the growing season

Table S1. Studied rice cultivars

Plot No.	Cultivar	Final yield (kg / ha)	Max height (cm)	Max
				above ground biomass (kg / ha)
1	XD15-90A/XH18	9286.65	115.99	1753.53
2	ZY 6 HAO	9874.54	109.95	2048.88
3	1892S/Z12	9577.04	105.09	1918.18
4	288S/Z12	9161.80	108.55	1903.63
5	LY8H	9131.00	100.49	1670.65
6	LY9348	8151.43	98.07	2079.61
7	HY 3348	8553.80	96.55	2106.67
8	LHY3615	9746.66	101.60	2220.56
9	LHY 3618	8763.82	95.68	2235.07
10	LHY 8348	9391.86	100.31	2125.63
11	LHY 7348	8252.34	101.28	1851.94
12	LY1564	7918.23	96.55	2188.46
13	LHY 2564	9287.01	92.91	1814.84
14	LHY 2615	8991.41	98.15	2157.16
15	LHY 7615	8630.13	94.35	1725.38
16	LHY 7618	8256.08	94.56	1909.55
17	LY1318	8057.24	96.15	2280.67
18	YI LYHZH	8431.49	97.76	2158.17
19	RONG LYHZH	8575.64	94.41	1921.39
20	LUO LY4HZH	8204.15	93.17	1997.07

21	YI LYYZH	7181.66	97.69	2016.45
22	RONG LYYZH	7731.93	89.99	1793.52
23	LUO LY3YZH	7174.22	92.00	1766.33
24	LUO LY 769	8977.20	88.59	1921.95
25	LY 13311	8921.91	96.38	1573.58
26	LUO LY 6311	8351.62	91.79	1630.16
27	LUO LY 8311	8665.27	88.15	1718.85
28	LUO LY 4311	9075.25	88.33	1909.43
29	YI LY 311	9278.10	94.07	1685.99
30	RONG LY 311	8732.45	86.81	1709.73
31	LUO LY 10311	8582.56	91.95	1634.18
32	LUO LY1HZH	7343.82	89.47	1876.92
33	LUO LY1YZH	7398.79	91.97	1767.53
34	LUO LY1311	8866.15	87.23	1686.86
35	203A/S931	8145.71	107.72	2031.18
36	103A/S931	8475.00	109.42	2121.51
37	288S/Z07	9419.05	103.10	2052.37
38	288S/Z04	8313.79	105.03	1843.74
39	24S/Z04	8315.06	107.67	2191.37

STD/Ave, %	7.9	7.4	10.3
------------	-----	-----	------
