

Table S6. Percentage change (%) of and lnRR factors in response to warming under different duration. TC, total carbon; SWC, soil water content; FN, foliar nitrogen; FP, foliar phosphorus; FV/FM, Maximum quantum yield of PSII; SLA, specific leaf area; WUE, water use efficiency; Pn, net photosynthetic rate; Gs, stomatal conductance; T, transpiration rate; $\delta^{13}\text{C}$, carbon stable isotope composition; SD, stomatal density; SS, stomatal size.

Variables	Warming duration (m)	QM	P(QM)	RR (%)	lnRR	95%CI
pH	1-5	0.40	0.80	-0.48	-0.0048	[-0.37,0.36]
	>10	0.40	0.80	2.49	0.0246	[-0.06,0.1]
TC	5-10	0.84	0.60	-0.89	-0.0089	[-0.25,0.24]
	>10	0.84	0.60	6.00	0.0583	[-0.07,0.18]
SWC	<1	153.30	<0.0001	-32.75	-0.3967	[-0.46, -0.33]
	1-5	153.30	<0.0001	7.42	0.0716	[-0.04,0.18]
	5-10	153.30	<0.0001	-17.89	-0.1971	[-0.69,0.29]
	>10	153.30	<0.0001	-11.81	-0.1257	[-0.27,0.02]
FN	1-5	5.17	0.16	16.25	0.1506	[-0.06,0.36]
	5-10	5.17	0.16	-13.15	-0.141	[-0.32,0.03]
	>10	5.17	0.16	-5.44	-0.0559	[-0.18,0.07]
FP	1-5	4.57	0.21	-23.29	-0.2651	[-0.98,0.45]
	5-10	4.57	0.21	-7.89	-0.0822	[-0.21,0.05]
	>10	4.57	0.21	-7.92	-0.0825	[-0.19,0.02]
FV/FM	<1	3.72	0.40	-1.21	-0.0122	[-0.14,0.11]
	1-5	3.72	0.40	-4.71	-0.0482	[-0.1,0.01]
	5-10	3.72	0.40	2.71	0.0267	[-0.08,0.13]
	>10	3.72	0.40	-2.99	-0.0304	[-0.13,0.07]
Chlorophyll	<1	9.87	0.02	-8.16	-0.0851	[-0.24,0.07]
	1-5	9.87	0.02	-23.29	-0.2651	[-0.45, -0.08]
	>10	9.87	0.02	-6.88	-0.0713	[-0.27,0.13]
SLA	1-5	5.00	0.17	-4.98	-0.0511	[-0.25,0.15]
	5-10	5.00	0.17	14.19	0.1327	[-0.26,0.52]
	>10	5.00	0.17	14.6	0.1363	[0.01,0.27]
WUE	<1	19.65	0.00	-7.78	-0.081	[-0.24,0.08]
	1-5	19.65	0.00	3.56	0.035	[-0.09,0.16]
	5-10	19.65	0.00	45.94	0.378	[0.2,0.56]
	>10	19.65	0.00	7.79	0.075	[-0.03,0.18]
Pn	<1	17.35	0.00	-23.43	-0.2669	[-0.43, -0.1]
	1-5	17.35	0.00	11.54	0.1092	[-0.01,0.23]
	5-10	17.35	0.00	36.33	0.3099	[0.01,0.61]
	>10	17.35	0.00	-2.0	-0.0202	[-0.17,0.13]
Gs	<1	4.55	0.34	-5.57	-0.0573	[-0.19,0.07]
	1-5	4.55	0.34	-6.65	-0.0688	[-0.18,0.05]
	5-10	4.55	0.34	-6.2	-0.064	[-0.36,0.24]
	>10	4.55	0.34	-10.56	-0.1116	[-0.26,0.03]
T	<1	4.83	0.31	-12.99	-0.1392	[-0.32,0.04]
	1-5	4.83	0.31	7.03	0.0679	[-0.05,0.18]
	5-10	4.83	0.31	-12.7	-0.1358	[-0.57,0.3]
	>10	4.83	0.31	-6.39	-0.066	[-0.22,0.09]
$\delta^{13}\text{C}$	<1	17.47	0.00	-2.25	-0.0228	[-0.18,0.14]
	1-5	17.47	0.00	1.89	0.0187	[-0.09,0.13]
	5-10	17.47	0.00	10.23	0.0974	[0.03,0.17]
SD	>10	17.47	0.00	5.91	0.0574	[0.02,0.09]
	1-5	6.75	0.03	-13.74	-0.1478	[-0.28, -0.02]
SS	>10	6.75	0.03	-7.32	-0.076	[-0.19,0.04]
	>10	5.48	0.70	-2.9	-0.0294	[-0.13,0.07]