

Table S2. Output of the generalized mixed effect models (GLMM) of monthly data of growing rates (GRO) and tree water deficit indicator (TWD) as response variables and mean global radiation (GR), air temperature (T), vapor pressure deficit (VPD), precipitation totals (Prec) and water table depth (Depth) as fixed effects and years nested in trees as the random effects. Presented are estimates \pm standard errors. Significance is indicated as *** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, '-' n.s.

Response variable:	GRO			
	YOUNG _s	MATURE _c	MATURE _s	
GR	4.6 \pm 0.4***	9.9 \pm 1.8***	10.4 \pm 2.7***	
T	-	-10.2 \pm 2.1***	-9.2 \pm 2.9**	
VPD	3.1 \pm 0.4***	12.7 \pm 2.3***	10.2 \pm 2.9***	
Prec	2.8 \pm 0.2***	9.5 \pm 1.6***	9.1 \pm 2.2***	
Depth	-	-3.8 \pm 1.3**	-4.8 \pm 1.5**	
Marginal R ²		0.893	0.957	0.978
N observations		70	70	75
N Years:trees		15	15	15
N Trees		5	5	5

Response variable:	TWD			
	YOUNG _s	MATURE _c	MATURE _s	
GR	4.2 \pm 1.4**	-	11.5 \pm 2.8***	
Ta	-	-9.6 \pm 2.9***	3 \pm 1.5*	
VPD	-4.6 \pm 1.3***	8.5 \pm 2.9**	-14.2 \pm 3.1***	
Prec	-	3.9 \pm 1.7*	-	
Depth	10.1 \pm 1.9***	-	14.8 \pm 3.1***	
Marginal R ²		0.941	0.668	0.962
N observations		75	75	75
N Years:trees		15	15	15
N Trees		5	5	5