

Phenology: Tables and Figures

Deirdre Loughnan

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1 General Survival and sucess

At the start of the experiment, 2496 samples went into chilling, 2458 went into forcing and survived the experiment. Of the samples that did died, it was largely due to human error, some species were very brittle, while others popped out of their flasks or were returned to the wrong flask, but these samples were only 1.52In total, 9.5% of samples did not bud burst at all. Of all the samples, 18.42% did not have terminal bud burst, most of these were vac mem, followed by rubpar and acegla.

Table 1: Proportion of samples with budburst per species

	Proportion Budburst
acegla	0.83
alninc	1.00
alnvir	0.92
amealn	0.99
betpap	1.00
corsto	0.99
loninv	0.87
menfer	0.80
popbal	0.98
poptre	0.90
rhoalb	1.00
riblac	0.82
rubpar	0.94
samrac	0.95
shecan	1.00
sorsco	0.99
spibet	0.94
spipyr	0.92
symalb	0.84
vacmem	0.90
vibedu	1.00

Table 2: Model estimates for budburst of terminal buds

	Mean	Sd	2.5%	50%	97.5%	Rhat
Forcing	-16.87	1.19	-19.26	-16.85	-14.54	1.00
Photoperiod	-1.94	1.06	-4.02	-1.95	0.17	1.00
Chilling	-14.77	1.66	-18.01	-14.78	-11.49	1.00
Site	-3.21	1.93	-7.05	-3.18	0.57	1.00
Forcing x Photoperiod	0.97	1.02	-1.06	0.97	2.99	1.00
Forcing x Chilling	6.54	1.07	4.37	6.56	8.60	1.00
Photoperiod x Chilling	-0.23	1.07	-2.28	-0.24	1.91	1.00
Forcing x Site	2.76	1.11	0.62	2.75	4.96	1.00
Photoperiod x Site	-1.43	1.20	-3.84	-1.43	0.90	1.00
Site x Chilling	-0.14	1.29	-2.71	-0.10	2.32	1.00

Table 3: Model estimates for budburst of lateral buds

	Mean	Sd	2.5%	50%	97.5%	Rhat
Forcing	-18.52	1.69	-21.90	-18.51	-15.22	1.00
Photoperiod	-2.18	1.18	-4.50	-2.18	0.15	1.00
Chilling	-13.22	1.80	-16.70	-13.23	-9.54	1.00
Site	-3.53	1.92	-7.30	-3.52	0.19	1.00
Forcing x Photoperiod	1.89	1.11	-0.28	1.89	4.07	1.00
Forcing x Chilling	4.76	1.25	2.32	4.77	7.28	1.00
Photoperiod x Chilling	-0.78	1.18	-3.15	-0.78	1.49	1.00
Forcing x Site	3.64	1.48	0.71	3.65	6.53	1.00
Photoperiod x Site	-0.43	1.20	-2.82	-0.42	1.90	1.00
Site x Chilling	-0.38	1.84	-4.03	-0.37	3.22	1.00

NULL

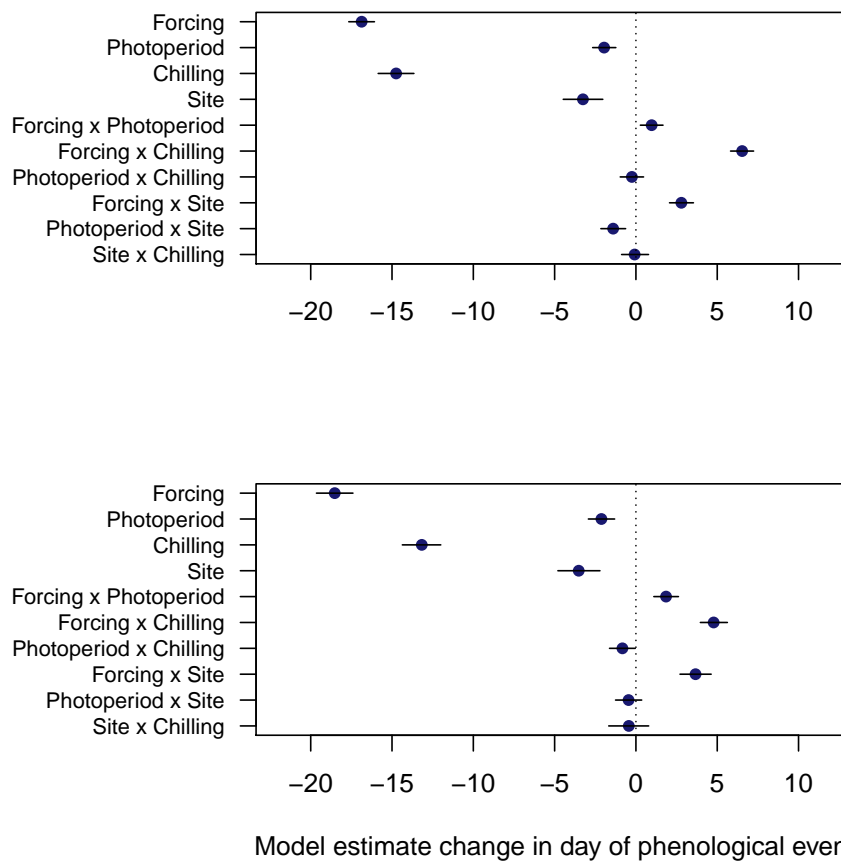


Figure 1: Model estimates for a. terminal budburst and 50 percent of lateral buds

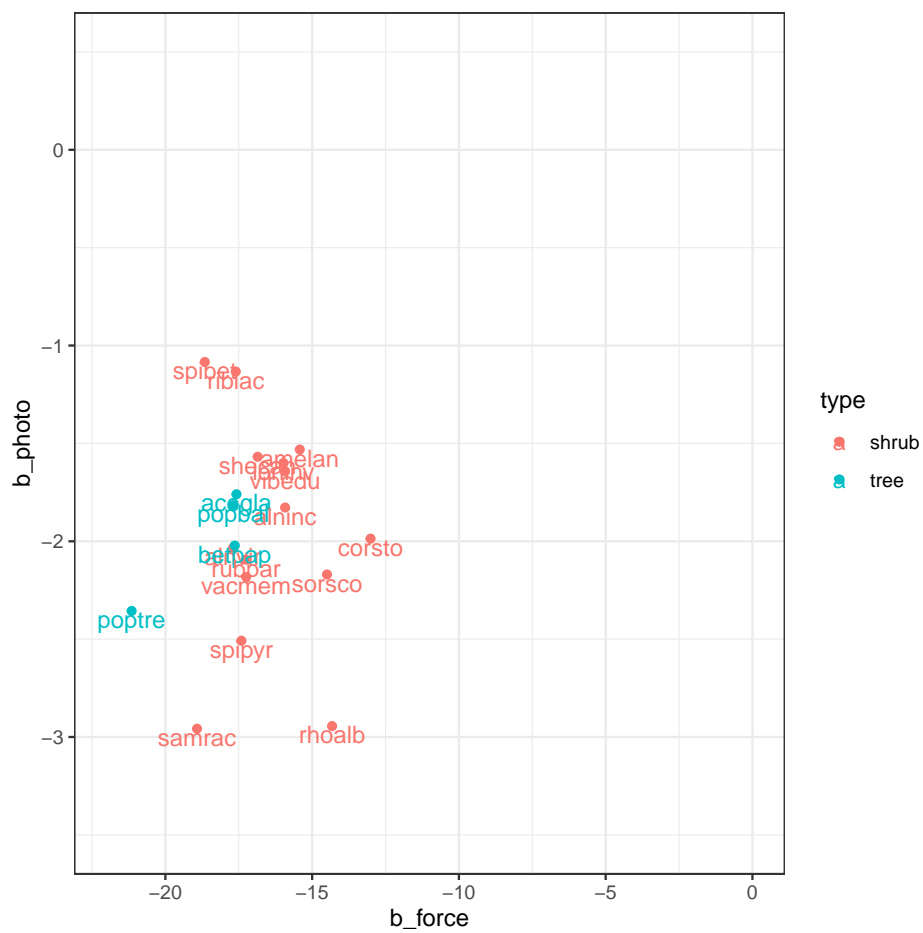


Figure 2: Species responses to high chilling and high forcing treatments

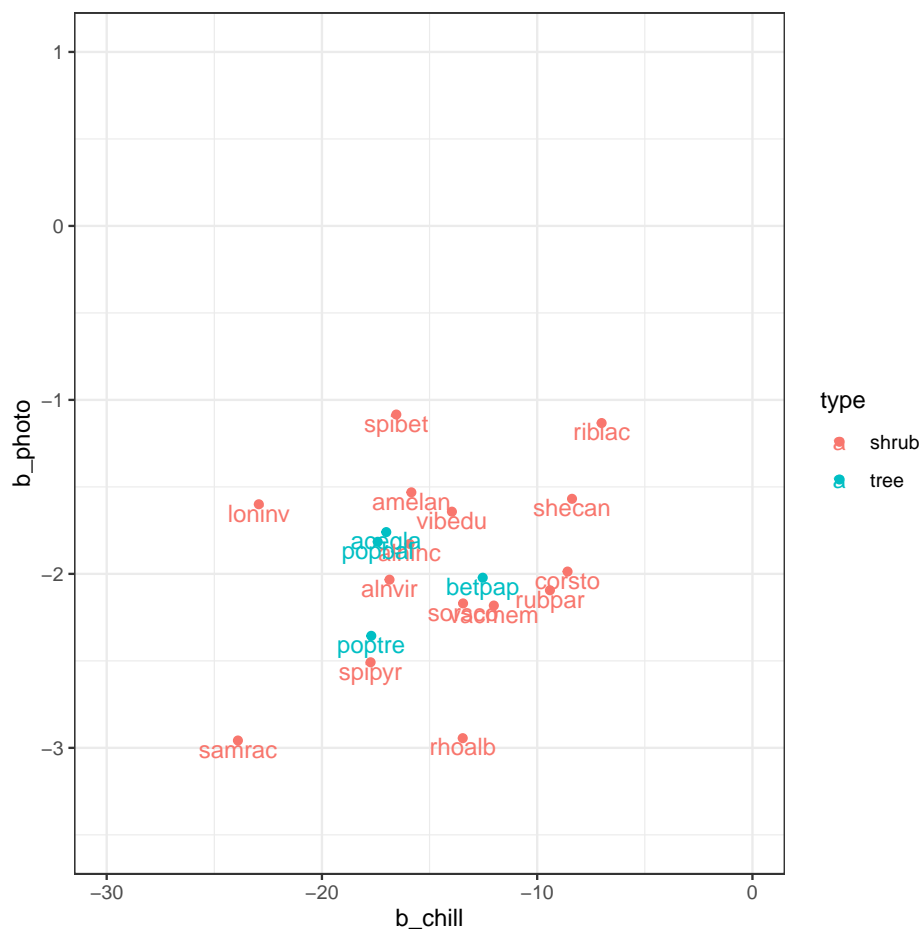


Figure 3: Species responses to high chilling and long photoperiod treatments

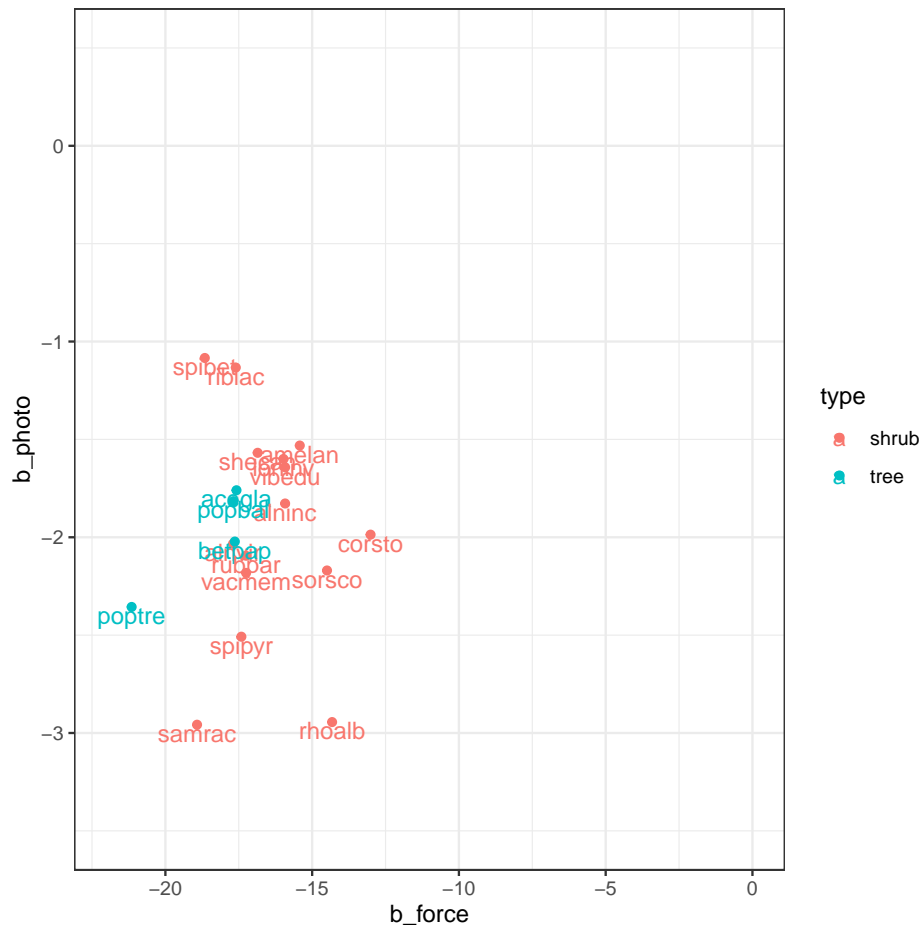


Figure 4: Species responses to high forcing and long photoperiod treatments