1 Supplementary Material

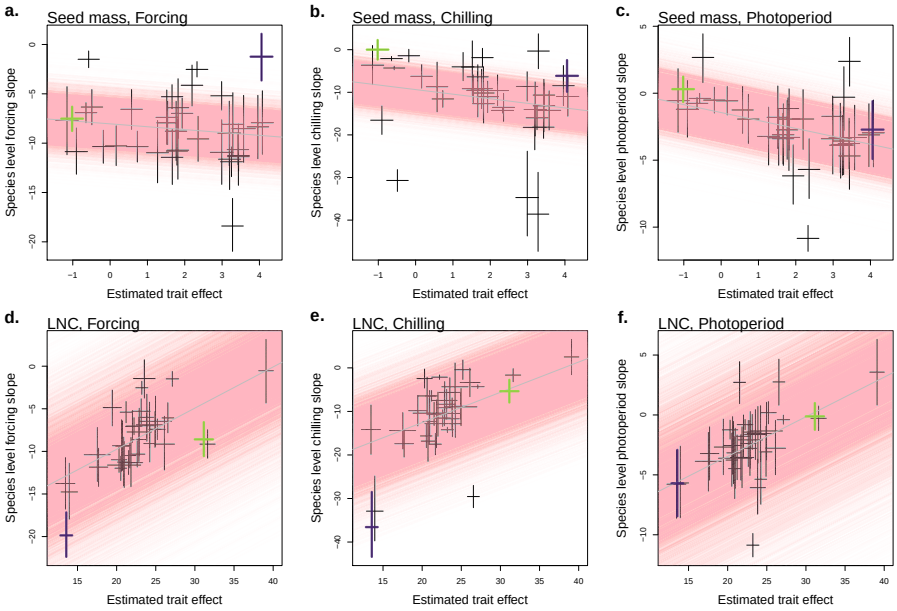

Figure 1: Trait relationships with cue slopes

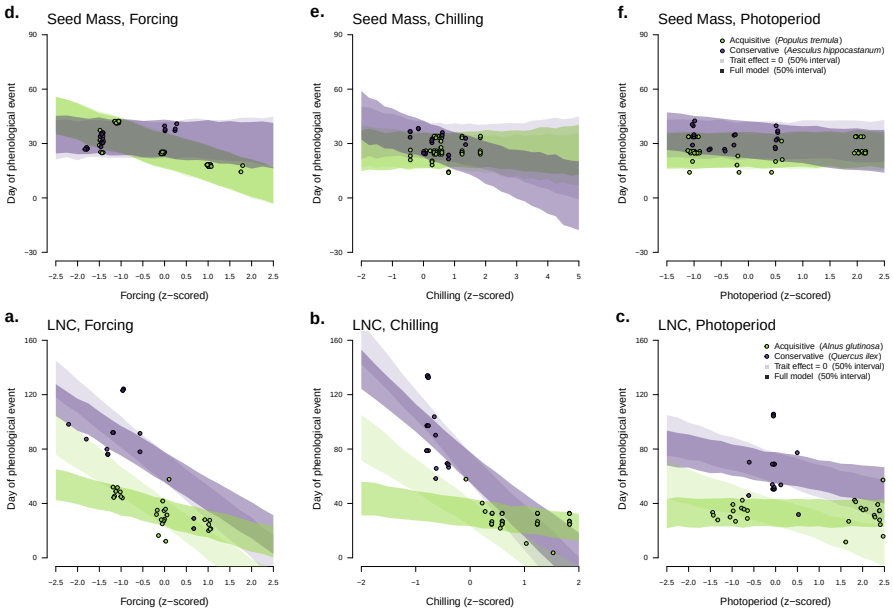

Figure 2: Estimated cue responses for acquisitive and conservative spp.

Table 1: Height model estimates

Variable	mean	sd	X2.5.	X50.	X97.5.	Rhat
mu_grand	12.62	1.83	8.95	12.63	16.21	1.00
muPhenoSp	32.13	2.69	26.94	32.12	37.43	1.00
muForceSp	-10.81	2.81	-16.34	-10.77	-5.33	1.00
muChillSp	-4.42	4.05	-12.71	-4.35	3.34	1.00
muPhotoSp	1.44	2.23	-2.98	1.44	5.77	1.00
betaTraitxForce	0.18	0.19	-0.21	0.18	0.56	1.00
betaTraitxChill	-0.51	0.28	-1.04	-0.52	0.06	1.00
betaTraitxPhoto	-0.30	0.16	-0.62	-0.30	0.02	1.00
sigma_sp	5.91	0.76	4.61	5.84	7.58	1.00
sigma_study	7.51	1.20	5.49	7.38	10.24	1.00
sigma_traity	5.39	0.02	5.36	5.39	5.43	1.00
sigmaPhenoSp	15.17	2.07	11.23	15.11	19.42	1.00
sigmaForceSp	4.95	1.18	2.99	4.84	7.56	1.00
sigmaChillSp	8.63	2.19	5.25	8.33	13.72	1.00
sigmaPhotoSp	3.45	0.93	1.87	3.36	5.51	1.00
sigmapheno_y	14.22	0.25	13.74	14.22	14.72	1.00

Table 2: SLA model estimates

Variable	mean	sd	X2.5.	X50.	X97.5.	Rhat
mu_grand	16.54	1.57	13.51	16.53	19.54	1.01
muPhenoSp	31.39	2.51	26.51	31.35	36.45	1.00
muForceSp	-10.95	2.67	-16.44	-10.89	-5.87	1.01
muChillSp	-16.49	4.62	-26.03	-16.33	-7.86	1.01
muPhotoSp	0.97	2.56	-4.29	1.02	5.74	1.02
betaTraitxForce	0.15	0.15	-0.13	0.15	0.45	1.01
betaTraitxChill	0.34	0.25	-0.12	0.33	0.84	1.01
betaTraitxPhoto	-0.19	0.14	-0.47	-0.19	0.10	1.02
sigma_sp	7.78	0.97	6.12	7.70	9.89	1.00
sigma_study	3.27	0.96	1.82	3.12	5.49	1.00
sigma_traity	6.17	0.05	6.07	6.16	6.26	1.00
sigmaPhenoSp	13.96	2.10	10.03	13.91	18.20	1.00
sigmaForceSp	4.91	1.13	3.07	4.79	7.43	1.00
sigmaChillSp	10.48	2.29	6.60	10.28	15.35	1.00
sigmaPhotoSp	3.72	0.89	2.24	3.64	5.75	1.00
sigmapheno_y	14.21	0.26	13.71	14.21	14.72	1.00

Table 3: Seed mass model estimates

Variable	mean	sd	X2.5.	X50.	X97.5.	Rhat
mu_grand	1.84	0.48	0.90	1.84	2.77	1.00
muPhenoSp	31.43	2.70	26.33	31.40	36.84	1.00
muForceSp	-8.04	1.57	-11.19	-8.03	-4.98	1.00
muChillSp	-9.36	2.79	-15.05	-9.28	-4.02	1.00
muPhotoSp	-1.44	1.27	-3.90	-1.47	1.06	1.00
betaTraitxForce	-0.29	0.67	-1.58	-0.29	1.03	1.00
betaTraitxChill	-1.08	1.09	-3.20	-1.09	1.07	1.00
betaTraitxPhoto	-0.59	0.58	-1.74	-0.59	0.54	1.00
sigma_sp	1.62	0.19	1.30	1.60	2.03	1.00
sigma_study	0.97	0.10	0.77	0.97	1.16	1.00
sigma_traity	0.25	0.01	0.23	0.25	0.27	1.00
sigmaPhenoSp	14.93	2.29	10.62	14.89	19.61	1.00
sigmaForceSp	4.92	0.99	3.18	4.85	7.06	1.00
sigmaChillSp	10.65	2.53	6.44	10.37	16.20	1.00
sigmaPhotoSp	3.76	0.91	2.23	3.67	5.80	1.00
sigmapheno_y	14.16	0.25	13.69	14.15	14.64	1.00

Table 4: LNC model estimates

Variable	mean	sd	X2.5.	X50.	X97.5.	Rhat
mu_grand	22.65	1.41	19.90	22.65	25.44	1.00
muPhenoSp	31.21	2.51	26.35	31.15	36.32	1.00
muForceSp	-19.42	5.45	-30.39	-19.50	-8.61	1.01
muChillSp	-26.48	7.09	-40.56	-26.52	-12.15	1.00
muPhotoSp	-10.07	4.89	-19.99	-10.02	-0.60	1.01
betaTraitxForce	0.48	0.23	0.02	0.48	0.95	1.01
betaTraitxChill	0.70	0.30	0.09	0.70	1.30	1.00
betaTraitxPhoto	0.33	0.20	-0.06	0.33	0.73	1.01
sigma_sp	5.12	0.61	4.05	5.07	6.44	1.00
sigma_study	3.54	0.97	2.07	3.40	5.78	1.00
sigma_traity	5.13	0.06	5.02	5.13	5.25	1.00
sigmaPhenoSp	14.07	1.96	10.46	13.96	18.13	1.00
sigmaForceSp	4.51	1.03	2.70	4.42	6.76	1.00
sigmaChillSp	8.92	2.02	5.73	8.63	13.60	1.00
sigmaPhotoSp	3.85	0.88	2.37	3.77	5.80	1.00
sigmapheno_y	14.22	0.26	13.73	14.21	14.73	1.00