1 Running Cat's models

2 Specific leaf area

Table 1: Summary of the intercept only model for SLA in 2019 (n = 599) with species (n = 18) and population (n = 5).

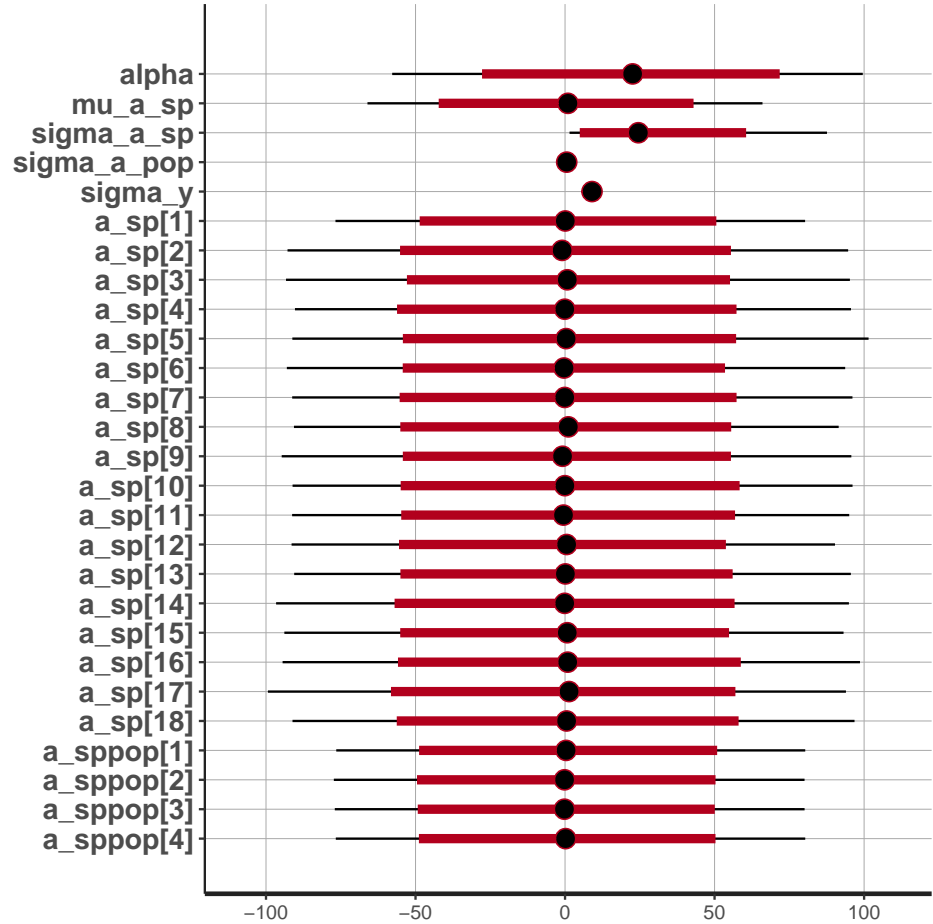|	mean	25%	75%	n_eff	Rhat
alpha	22.22	-3.85	48.51	3272.72	1.00
mu_a_sp	0.52	-22.76	23.83	3982.78	1.00
sigma_a_sp	29.60	11.85	41.73	4131.24	1.00
sigma_a_pop	0.88	0.24	1.05	2095.84	1.00
sigma_y	9.03	8.84	9.20	6772.40	1.00

3

Table 2: Summary of the intercept only model for SLA in 2022 (n = 446) with species (n = 13) and population (n = 5).

	mean	25%	75%	n_eff	Rhat
alpha	21.23	-3.33	45.37	2283.14	1.00
mu_a_sp	-0.35	-24.51	23.35	2224.31	1.00
sigma_a_sp	5.53	0.90	6.03	1582.09	1.00
sigma_a_pop	1.12	0.28	1.26	1415.77	1.00
sigma_y	6.96	6.80	7.11	4515.33	1.00

4 Leaf dry matter content

Table 3: Summary of the intercept only model for LDMC in 2019 (n = 599) with species (n = 18) and population (n = 5).

	mean	25%	75%	n_eff	Rhat
alpha	21.23	-3.33	45.37	2283.14	1.00
mu_a_sp	-0.35	-24.51	23.35	2224.31	1.00
sigma_a_sp	5.53	0.90	6.03	1582.09	1.00
sigma_a_pop	1.12	0.28	1.26	1415.77	1.00
sigma_y	6.96	6.80	7.11	4515.33	1.00

Table 4: Summary of the intercept only model for LDMC in 2022 (n = 446) with species (n = 13) and population (n = 5).

	mean	25%	75%	n_eff	Rhat
alpha	21.23	-3.33	45.37	2283.14	1.00
mu_a_sp	-0.35	-24.51	23.35	2224.31	1.00
sigma_a_sp	5.53	0.90	6.03	1582.09	1.00
sigma_a_pop	1.12	0.28	1.26	1415.77	1.00
sigma_y	6.96	6.80	7.11	4515.33	1.00

5 Height

Table 5: Summary of the intercept only model for plant height in 2019 (n = 302) with species (n = 18) and population (n = 5).

	mean	25%	75%	n_eff	Rhat
alpha	1.26	-20.15	22.84	2805.38	1.00
mu_a_sp	-0.34	-21.96	21.13	2811.38	1.00
sigma_a_sp	0.64	0.12	0.55	1005.87	1.00
sigma_a_pop	0.65	0.12	0.55	1054.36	1.00
sigma_y	0.55	0.54	0.57	6267.25	1.00

Table 6: Summary of the intercept only model for plant height in 2021 (n = 257) with species (n = 16) and population (n = 5).

	mean	25%	75%	n_eff	Rhat
alpha	2.74	-18.60	24.61	3564.99	1.00
mu_a_sp	-0.01	-21.64	21.83	3547.77	1.00
sigma_a_sp	4.22	0.79	4.37	1336.33	1.00
sigma_a_pop	0.58	0.13	0.60	1114.62	1.00
sigma_y	1.41	1.37	1.45	7806.45	1.00

Table 7: Summary of the intercept only model for plant height in 2022 (n = 240) with species (n = 14) and population (n = 5).

	mean	25%	75%	n_eff	Rhat
alpha	3.05	-19.58	25.59	2009.90	1.00
mu_a_sp	-0.15	-22.67	22.44	2019.33	1.00
sigma_a_sp	2.31	0.45	2.80	957.30	1.00
sigma_a_pop	1.13	0.24	1.28	995.85	1.01
sigma_y	1.72	1.66	1.77	4029.93	1.00

6 **Stem specific density**

Table 8: Summary of the intercept only model for plant SSD in 2022 (n = 240) with species (n = 14) and population (n = 5).

	mean	25%	75%	n_eff	Rhat
alpha	2.06	-26.84	32.81	276.07	1.01
mu_a_sp	-3.51	-32.03	24.16	292.76	1.01
sigma_a_sp	40.00	15.98	56.32	609.38	1.01
sigma_a_pop	0.01	0.00	0.02	638.44	1.00
sigma_y	0.09	0.08	0.09	574.88	1.00