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Table S1. Correspondent models, intercepts, slopes (of explained variables), explicative variables, degrees of freedom (df), Log-likelihood (logLik), Akaike Information Criterion (AICc), delta (stepping scale for model selection < 2) and weight (proportion of explained variance) of Figures 1, 2 and Table 2 of the Generalized Linear Models for Al^{3+}, NO^{3-}, NH^{4+}, pH, and pH variation (pH2009-2005) with interactions with Functional Groups – FG(LEG/DRY) and Year (2005/2009) related to Relative Basal Area – RBA. DRY means DRY RBA; LEG means LEG RBA; OTHER means OTHER RBA; NON means non-leguminous trees; NH^{4+}, NO^{3-}, Al^{3+}, pH are soil attributes (see Materials and Methods); NRI means Net Relatedness Index; pH 2009-2005 means pH variation

MODEL	INTERCEPT	SLOPE	WITHOUT INTERACTION	WITH INTERACTION	DF	LOGLIK	AICC	DELTA	WEIGHT
code	Intercept	RBA LEG/ OTHER	GROUP (LEG/ OTHER)	RBA*(GROUP)	df	logLik	AICc	delta	weight
4	0.6955	-0.8461	+		4	47.952	-87.4	0	0.655
8	0.6956	-0.8470	+	+	5	47.952	-85.2	2.24	0.213
2	0.7158	-0.7749			3	45.258	-84.2	3.20	0.132
Model code	Intercept	NH^{4+}	FG (DRY/LEG)	NH^{4+}*FG (DRY/LEG)	df	logLik	AICc	delta	weight
8	0.7519	-5.709e-04	+	+	5	46.924	-83.1	0	1
2	0.5360		+		3	33.404	-60.5	22.60	0
4	0.5458	-2.594e-05	+		4	33.430	-58.4	24.74	0
Model code	Intercept	NO^{3-}	FG (DRY/LEG)	NO^{3-}*FG (DRY/LEG)	df	logLik	AICc	delta	weight
8	0.6507	-0.0028900	+	+	5	53.675	-96.6	0	1
2	0.5360		+		3	33.404	-60.5	36.11	0
4	0.5428	-0.0001699	+		4	33.467	-58.5	38.17	0
Model code	Intercept	pH	FG (DRY/LEG)	pH*FG (DRY/LEG)	df	logLik	AICc	delta	weight
8	-0.1200	0.12490	+	+	5	62.007	-113.3	0	1
2	0.5360		+		3	33.404	-60.5	52.77	0
4	0.4370	0.01884	+		4	34.057	-59.6	53.66	0
Model code		Al^{3+}	FG (DRY/LEG)	Al^{3+}*FG (DRY/LEG)	df	logLik	AICc	delta	weight
8	0.6887	-0.1133	+	+	5	66.131	-121.5	0	1
3	0.5360		+		3	33.404	-60.5	61.02	0
4	0.5550	-0.01404	+		4	33.863	-59.3	62.29	0
Model code	Intercept	Community NRI	FG(LEG/NON)	NRI*FG (LEG/NON)	df	logLik	AICc	delta	weight
8	-0.5537	0.8400	+	+	5	-153.726	318.2	0	0.947
4	-0.5686	0.4332	+		4	-157.773	324.0	5.85	0.051
2	-0.5846		+		3	-161.961	330.2	12.03	0.002
Model code	Intercept	pH2009-2005	pH	pH* (pH2009-2005)	df	logLik	AICc	delta	weight
8	5.347	1.176	+	+	5	-23.817	60.1	0	0.834
3	5.347	1.676	+		3	-28.464	63.9	3.72	0.130
4	5.268	1.676	+		4	-28.420	66.4	6.31	0.036
Model code	Intercept	RBA	FG(LEG/DRY)	(pH2009-2005)*FG(DRY/LEG)	df	logLik	AICc	delta	weight
8	-1.4980	3.0800	+	+	5	-13.147	38.8	0	1
1	-0.6733				2	-29.252	62.9	24.15	0
2	-0.17920	0.3034	+		3	-29.127	65.2	26.38	0
Model code	Intercept	Ca^{2+}2009-2005			df	logLik	AICc	delta	weight
2	4.697	1.281			3	-50.033	107.0	0.00	0.966
1	5.201				2	-54.634	113.7	6.72	0.034
Model code	Intercept	RBA	FG (DRY/LEG) Ca^{2+}	RBA*FG (DRY/LEG) Ca^{2+}	df	logLik	AICc	delta	weight
8	-0.4078	1.724	+	+	5	-23.742	60.0	1.05	0.259
2	0.3004	0.2514			3	-27.146	61.2	2.28	0.140
3	0.3931		+		3	-27.244	61.4	2.48	0.127
4	0.2383	0.3333	+		4	-27.114	63.8	4.89	0.038

• means interaction.

Table S2. Mean values for pH (H_2O), phosphorus (P), potassium (K), calcium (Ca) magnesium (Mg), aluminium (Al^{3+}), potential acidity (H+Al), bases sum (BS), Cation Exchange Capacity (CEC), bases saturation (V), aluminium saturation (m), organic matter (OM), iron (Fe) total basal area (BA), relative basal area of leguminous trees (LEG), relative basal area of non-leguminous drought-tolerant tree species typical of seasonally dry forests (DRY), relative basal area of other species (OTHER), total nitrogen (Total N), nitrate (NO^{3-}), ammonium (NH^{4+}), and net relatedness index (NRI). Samples: DW–dystrophic woodland, TW – transitional woodland, MW – mesotrophic woodland.

Sample	pH	P	K	Ca	Mg	Al^{3+}	H+Al	BS	CEC1	CEC2	V	m	OM	Fe	BA (cm^3 /plot)	LEG	DRY	OTHER	Total N (%)	NO^{3-} (mg/kg)	NH^{4+} (mg/kg)	NRI
DW1-p1	3.43	1.77	32.67	0.25	0.06	3.48	17.43	0.40	3.87	17.83	2.23	89.73	8.37	42.87	11588.02	0.47	0.38	0.15	0.16	84.92	292.18	-2.40
DW1-p2	3.58	1.87	36.67	0.27	0.08	3.44	17.03	0.44	3.88	17.47	2.53	88.67	7.70	47.13	10476.79	0.47	0.39	0.14	0.16	91.68	593.03	-1.34
DW1-p3	3.78	1.27	38.67	0.38	0.12	2.99	15.20	0.59	3.58	15.79	3.73	83.50	6.57	44.33	10181.91	0.28	0.34	0.37	0.15	91.47	433.64	-1.97
DW1-p4	3.73	1.50	36.00	0.32	0.09	3.48	18.63	0.50	3.98	19.13	2.60	87.50	8.83	39.47	10243.84	0.50	0.26	0.24	0.15	176.02	521.81	-4.12
DW1-p5	3.82	1.37	40.33	0.71	0.19	3.41	19.70	0.99	4.41	20.69	4.80	77.47	9.12	43.53	14542.37	0.53	0.21	0.25	0.15	128.01	709.04	-3.06
DW2-p1	3.88	0.70	64.33	0.25	0.08	2.44	11.33	0.49	2.93	11.82	4.13	83.20	5.07	62.37	18725.06	0.17	0.16	0.67	0.15	93.97	449.98	-1.94
DW2-p2	4.24	0.67	82.00	0.12	0.05	2.41	10.40	0.38	2.78	10.78	3.50	86.43	4.56	56.50	20998.32	0.35	0.49	0.15	0.19	45.89	374.81	-1.75
DW2-p3	4.56	0.83	64.00	0.19	0.07	2.57	11.67	0.42	2.99	12.09	3.47	85.93	5.10	52.27	14362.02	0.34	0.39	0.27	0.19	50.94	525.56	-1.72
DW2-p4	3.88	0.70	43.33	0.14	0.06	2.80	11.53	0.31	3.11	11.84	2.63	90.03	4.98	49.53	16445.10	0.29	0.43	0.28	0.19	67.30	686.14	-2.69
DW2-p5	4.04	0.77	50.00	0.23	0.08	2.70	11.17	0.44	3.14	11.61	3.80	85.87	5.10	58.77	16569.99	0.46	0.52	0.03	0.16	44.24	812.72	-2.48
DW3-p1	4.74	3.63	89.33	0.70	0.48	1.50	9.70	1.41	2.91	11.11	12.67	51.50	4.85	71.87	24817.97	0.23	0.42	0.35	0.20	61.28	474.85	0.00
DW3-p2	4.99	1.13	80.67	1.06	0.43	1.17	9.63	1.70	2.88	11.34	15.03	40.70	5.15	84.73	13214.68	0.31	0.30	0.39	0.13	26.95	237.98	-0.07
DW3-p3	4.77	0.93	80.33	0.70	0.38	1.53	9.40	1.28	2.80	10.68	12.00	54.43	5.23	98.57	19523.78	0.16	0.26	0.58	0.15	59.83	438.63	0.45
DW3-p4	4.46	0.90	74.00	0.78	0.38	1.82	10.33	1.35	3.17	11.69	11.53	57.37	5.23	92.13	20026.32	0.16	0.31	0.54	0.18	39.54	380.25	0.47
DW3-p5	4.80	1.10	75.00	0.62	0.44	1.53	10.43	1.25	2.78	11.69	10.73	54.90	5.40	95.33	21332.00	0.15	0.49	0.36	0.19	41.11	383.10	-0.10
TW1-p1	5.02	0.90	107.33	0.64	0.63	1.82	10.77	1.54	3.36	12.31	12.53	54.27	6.03	59.07	20098.93	0.13	0.70	0.17	0.19	72.14	341.73	-1.27
TW1-p2	4.67	1.20	108.00	0.39	0.54	2.31	12.50	1.20	3.51	13.70	8.77	65.77	6.07	77.00	18346.01	0.06	0.86	0.08	0.21	11.30	684.68	-1.61
TW1-p3	4.61	0.97	124.00	0.55	0.61	2.08	11.57	1.48	3.56	13.04	11.33	58.50	5.90	84.80	19968.04	0.10	0.68	0.22	0.21	26.37	110.84	-0.70
TW1-p4	4.82	1.63	150.33	0.78	0.80	1.89	11.10	1.97	3.85	13.07	15.00	49.00	6.07	61.17	23125.16	0.17	0.63	0.20	0.15	13.06	539.37	-1.06
TW1-p5	4.47	1.03	121.67	0.65	0.64	2.57	11.37	1.59	4.16	12.96	12.27	61.73	5.69	70.90	12836.47	0.14	0.54	0.32	0.14	43.73	573.31	0.22
TW2-p1	5.54	1.47	60.67	2.08	0.95	0.88	7.57	3.19	4.07	10.76	29.70	21.07	4.61	72.23	17846.58	0.34	0.62	0.04	0.16	15.01	334.19	0.43
TW2-p2	5.14	1.20	56.00	1.30	0.67	1.63	9.17	2.12	3.74	11.28	18.77	43.43	4.81	100.13	19498.67	0.05	0.89	0.07	0.19	9.90	365.23	0.77
TW2-p3	5.15	1.27	80.33	1.52	0.61	1.37	9.33	2.33	3.70	11.67	20.00	36.97	5.52	91.93	19194.38	0.01	0.77	0.22	0.18	8.33	306.53	0.18
TW2-p4	4.95	1.40	75.33	0.40	0.26	2.67	9.60	0.85	3.52	10.45	8.17	75.77	4.44	41.37	18114.37	0.05	0.74	0.21	0.17	8.12	381.91	0.17
TW2-p5	4.99	1.47	146.67	0.95	0.45	2.18	9.77	1.78	3.96	11.55	15.47	55.00	4.94	66.73	18107.82	0.00	0.81	0.19	0.15	8.38	396.45	0.63
TW3-p1	5.55	1.70	161.00	4.40	0.56	0.13	7.93	5.38	5.51	13.31	40.23	2.53	5.78	107.83	19056.17	0.19	0.70	0.10	0.19	8.87	263.07	0.86
TW3-p2	5.53	2.17	170.67	3.76	0.62	0.36	7.83	4.82	5.18	12.65	37.77	7.63	5.82	129.00	15641.75	0.14	0.70	0.16	0.19	8.15	317.18	0.63
TW3-p3	5.47	1.60	163.33	2.96	0.47	0.39	8.27	3.85	4.24	12.11	31.73	9.23	5.23	61.10	17027.07	0.15	0.79	0.06	0.20	10.01	397.71	0.03
TW3-p4	5.24	0.53	80.67	1.20	0.21	1.43	7.17	1.61	3.04	8.78	18.37	46.97	3.93	64.57	23921.11	0.04	0.76	0.20	0.16	6.94	330.63	0.51
TW3-p5	5.20	0.73	117.33	1.04	0.27	1.40	8.40	1.61	3.01	10.01	16.13	46.50	4.44	95.10	18907.46	0.15	0.31	0.54	0.18	9.07	238.74	-0.05
MW1-p1	7.12	2.87	162.00	12.85	0.75	0.00	0.63	14.01	14.01	14.64	95.70	0.00	7.16	44.67	20995.86	0.11	0.48	0.41	0.17	63.22	228.04	0.81
MW1-p2	7.34	3.53	190.67	13.63	0.98	0.00	0.57	15.10	15.10	15.66	96.33	0.00	8.08	45.20	17930.06	0.23	0.39	0.38	0.18	55.25	215.45	-0.11
MW1-p3	7.06	3.47	210.33	12.54	0.89	0.00	1.07	13.97	13.97	15.03	92.43	0.00	7.83	39.40	18158.99	0.35	0.48	0.18	0.17	67.47	328.97	0.34

Table S2. Cont.

Sample	pH	P	K	Ca	Mg	Al^{3+}	H+Al	BS	CEC1	CEC2	V	m	OM	Fe	BA (cm^3 /plot)	LEG	DRY	OTHER	Total N (%)	NO^{3-} (mg/kg)	NH^{4+} (mg/kg)	NRI
MW1-p4	7.35	4.27	227.33	11.64	0.78	0.00	1.37	13.00	13.00	14.36	90.47	0.00	7.83	52.83	18470.06	0.22	0.29	0.49	0.13	65.71	180.54	1.10
MW1-p5	7.19	3.20	182.67	9.93	0.70	0.00	1.70	11.09	11.09	12.79	86.80	0.00	7.58	66.90	18089.49	0.34	0.33	0.33	0.17	54.07	426.90	1.39
MW2-p1	6.57	4.87	184.33	8.21	1.07	0.00	2.83	9.75	9.75	12.59	77.50	0.00	6.95	72.03	16309.87	0.04	0.71	0.25	0.18	13.57	386.84	0.10
MW2-p2	6.24	3.63	229.67	7.51	1.16	0.00	4.40	9.26	9.26	13.66	67.80	0.00	6.45	90.10	31200.23	0.05	0.60	0.35	0.17	10.44	294.56	0.32
MW2-p3	6.25	4.00	203.33	7.38	1.36	0.00	4.27	9.26	9.26	13.53	68.53	0.00	6.82	56.90	24265.38	0.07	0.63	0.30	0.15	9.96	225.17	1.48
MW2-p4	6.46	2.77	196.33	8.36	1.49	0.00	3.33	10.35	10.35	13.69	75.67	0.00	6.44	42.43	21275.99	0.08	0.52	0.40	0.13	14.04	241.20	1.64
MW2-p5	6.33	5.93	224.67	7.86	1.63	0.00	3.73	10.06	10.06	13.79	72.97	0.00	7.07	44.93	18957.73	0.07	0.68	0.25	0.17	9.01	306.29	1.19
MW3-p1	5.56	2.93	102.67	5.55	0.47	0.17	8.03	6.28	6.44	14.31	43.87	2.60	5.78	70.83	21036.33	0.07	0.72	0.20	0.20	10.58	318.91	0.60
MW3-p2	5.65	3.00	76.33	5.88	0.35	0.10	7.47	6.42	6.52	13.89	46.23	1.57	5.74	35.90	19185.93	0.04	0.66	0.30	0.19	12.09	298.14	0.44
MW3-p3	5.80	3.23	59.00	6.21	0.49	0.03	7.07	6.85	6.88	13.92	49.13	0.53	6.19	40.33	15610.06	0.08	0.58	0.34	0.21	6.21	402.51	-0.18
MW3-p4	6.10	3.40	81.67	7.96	0.87	0.00	5.63	9.04	9.04	14.67	61.60	0.00	6.19	39.23	15742.79	0.08	0.55	0.36	0.21	11.33	197.82	-0.08
MW3-p5	6.28	3.17	68.00	6.24	0.75	0.00	4.43	7.17	7.17	11.60	56.40	0.00	6.82	45.00	13489.73	0.05	0.64	0.31	0.23	19.34	68.50	-0.03