

**Table S3.** Best GLM models selected by the Dredge function (AICc <2) for all the response variables.

CR-GAUSSIAN			CR-NEGATIVE BINOMIAL	
	ModCR1	ModCR2	ModCRnb1	
(Intercept)	1.84** (0.65)	1.95** (0.64)	(Intercept)	0.09 (0.28)
LIDAR1	-0.91*** (0.21)	-0.73** (0.24)	LIDAR1	-0.36*** (0.08)
Season:Autumn	1.35* (0.64)	1.13 (0.63)	Season:Autumn	0.45* (0.20)
LIDAR1:Autumn		-0.36 (0.23)	Log Likelihood	-61.04
Log Likelihood	-76.93	-76.30	AICc	134.22
AICc	165.99	167.71	Delta	0.00
Delta	0.00	1.71	Weight	1.00
Weight	0.70	0.30	r2 marginal	0.70
r2 marginal	0.49	0.50	r2 conditional	0.49
r2 conditional	0.73	0.76	Residual deviance	17.20
Num. obs.	34	34	df	26
			Num. obs.	34

\*\*\*p < 0.001; \*\*p < 0.01; \*p < 0.05

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AS-GAUSSIAN				Asnb-NEGATIVE BINOMIAL			
	ModAS1	ModAS2	ModAS3		ModASnb1	ModASnb2	ModASnb3
(Intercept)	14.13*** (1.28)	13.39*** (1.27)	13.67*** (1.30)	(Intercept)	2.52*** (0.10)	2.50*** (0.11)	2.53*** (0.11)
LIDAR1	-2.21*** (0.46)	-2.07*** (0.47)	-2.12*** (0.47)	LIDAR1	-0.12** (0.03)	-0.13*** (0.04)	-0.14*** (0.04)
LIDAR2	1.81 (0.91)		0.68 (0.67)	Season:Autumn	-1.39*** (0.14)	-1.29*** (0.15)	-1.38*** (0.16)
Season:Autumn	-10.79*** (1.81)	-9.86*** (1.80)	-9.86*** (1.80)	LIDAR1:Autumn		0.08 (0.05)	0.10 (0.05)
LIDAR1:Autumn	2.07** (0.65)	1.89* (0.66)	1.89** (0.66)	LIDAR2			0.10 (0.07)
LIDAR2:Autumn	-2.26 (1.29)			LIDAR2:Autumn			-0.23* (0.11)
Log Likelihood	-95.36	-99.06	-98.04	Log Likelihood	-93.12	-91.78	-89.20
AICc	212.48	213.24	214.39	AICc	198.38	198.67	200.16
Delta	0.00	0.76	1.91	Delta	0.00	0.30	1.79
Weight	0.48	0.33	0.19	Weight	0.44	0.38	0.18
r2 marginal	0.67	0.64	0.65	r2 marginal	0.76	0.73	0.74
r2 conditional	0.67	0.64	0.65	r2 conditional	0.86	0.85	0.86
Num. obs.	34	34	34	Residual deviance	28.81		
				df	26		
				Num. obs.	34	34	34

\*\*\*p < 0.001; \*\*p < 0.01; \*p < 0.05

\*\*\*p < 0.001; \*\*p < 0.01; \*p < 0.05

MS-GAUSSIAN		MSnb-NEGATIVE BINOMIAL	
	<b>ModMS1</b>		<b>ModMSnb1</b>
(Intercept)	1.33* (0.55)	(Intercept)	-0.96 (0.47)
LIDAR1	-0.68** (0.20)	LIDAR1	-0.51*** (0.13)
Log Likelihood	-68.31	Log Likelihood	-44.31
AICc	146.01	AICc	97.99
Delta	0.00	Delta	0.00
Weight	1.00	Weight	1.00
r2 marginal	0.38	r2 marginal	
r2 conditional	0.86	r2 conditional	
Num. obs.	34	Residual deviance	12.20
***p < 0.001; **p < 0.01; *p < 0.05		df	26
		Num. obs.	34

\*\*\*p < 0.001; \*\*p < 0.01; \*p < 0.05

Total-GAUSSIAN				Totnb-NEGATIVE BINOMIAL	
	<b>ModTotal1</b>	<b>ModTotal2</b>	<b>ModTotal3</b>		<b>ModTotnb1</b>
(Intercept)	17.91*** (1.67)	17.14*** (1.61)	17.53*** (1.66)	(Intercept)	2.69*** (0.10)
LIDAR1	-3.64*** (0.60)	-3.49*** (0.59)	-3.56*** (0.60)	LIDAR1	-0.18*** (0.03)
LIDAR2	1.88 (1.19)		0.95 (0.95)	Season:Autumn	-0.74*** (0.10)
Season:Autumn	-9.79*** (1.99)	-9.02*** (1.95)	-9.02*** (1.95)	Log Likelihood	-103.57
LIDAR1:Autumn	1.82* (0.71)	1.67* (0.72)	1.67* (0.72)	AICc	219.28
LIDAR2:Autumn	-1.86 (1.41)			Delta	0.00
Log Likelihood	-102.10	-105.59	-104.22	Weight	1.00
AICc	225.95	226.28	226.75	r2 marginal	0.69
Delta	0.00	0.33	0.80	r2 conditional	0.86
Weight	0.40	0.34	0.26	Residual deviance	30.78
r2 marginal	0.67	0.66	0.67	df	26
r2 conditional	0.77	0.75	0.75	Num. obs.	34
Num. obs.	34	34	34	***p < 0.001; **p < 0.01; *p < 0.05	

\*\*\*p < 0.001; \*\*p < 0.01; \*p < 0.05

RICHNESS	
ModRiquesa1	
(Intercept)	1.79*** (0.17)
LIDAR1	-0.18*** (0.04)
Log Likelihood	-24.70
AICc	58.78
Delta	0.00
Weight	1.00
r2 marginal	0.41
r2 conditional	0.76
Num. obs.	34

\*\*\*p < 0.001; \*\*p < 0.01; \*p < 0.05

CV_TOTAL-GAUSSIAN		
	ModCV_TOTAL1	ModCV_TOTAL2
(Intercept)	0.71*** (0.08)	0.75*** (0.06)
LIDAR1		0.07** (0.03)
Log Likelihood	-9.60	-8.95
AICc	26.16	27.56
Delta	0.00	1.40
Weight	1.00	1.00
r2 marginal	0.00	0.26
r2 conditional	0.44	0.48
Num. obs.	29	29

\*\*\*p < 0.001; \*\*p < 0.01; \*p < 0.05