Table S3: Ranking of single regression models for ground vegetation cover using AICc scores. Location was included as fixed effect to account for spatial autocorrelation in all models, except for those representing soil properties (CA.sed, CA.bed, SED) which did not have significantly spatial autocorrelated residuals.

	df	logLik	AICc	Δ AICc	AICc weight
Light availability					
SSRdif	4	17.96	-27.13	0.00	0.43
CC30m	4	16.75	-24.73	2.40	0.13
GAPdir	4	16.59	-24.40	2.72	0.11
GAPtot	4	16.58	-24.38	2.75	0.11
$SSRtot^2$	5	17.35	-23.50	3.63	0.07
CC20m	4	16.09	-23.40	3.73	0.07
GAPdif	4	15.22	-21.66	5.46	0.03
$SSRdir^2$	5	16.27	-21.35	5.78	0.02
$CC10m^2$	5	16.26	-21.32	5.80	0.02
$HLIdir^3$	6	12.98	-12.25	14.88	0.00
$HLIdif^2$	5	11.28	-11.36	15.77	0.00
$HLItot^3$	6	12.09	-10.46	16.66	0.00
Soil properties					
CA.sed	3	7.97	-9.47	0.00	0.65
CA.bed	3	7.25	-8.03	1.44	0.32
SED	5	7.25	-3.30	6.17	0.03
Topographic wetness					
DTW 10ha	4	9.49	-10.19	0.00	0.15
SWI 30m	4	9.27	-9.76	0.43	0.12
SWI 1m	4	9.23	-9.68	0.51	0.12
DTW 2ha	4	9.21	-9.63	0.56	0.12
DTW 8ha	4	9.19	-9.60	0.60	0.11
SWI 5m	4	9.14	-9.50	0.69	0.11
DTW 1ha	4	9.01	-9.23	0.97	0.09
SWI 10m	4	8.97	-9.15	1.04	0.09
DTW 4ha	4	8.96	-9.14	1.05	0.09
Topographic position					
DEV 30m	4	9.19	-9.59	0.00	0.28
TPI 30m	4	9.05	-9.32	0.27	0.25
TPI 10m	4	9.05	-9.31	0.28	0.24
DEV 10m	4	8.97	-9.15	0.44	0.23