

Supplementary Material

Tab. S1 - Models coefficients for the lichen pine forest site for each season of measurements. (SE): standard error; (N): number of observations; (Adj. R²): adjusted R²; (AIC): Akaike Information Criterion; (*): p<0.10; (**): p<0.05; (***): p<0.01.

Model	Year	α (SE)	β (SE)	E ₀	N	Adj. R ²	AIC
T model	All years	0.076*** (0.008)	-	0.944	148	0.371	153.114
	2012	0.052*** (0.012)	-	1.025	34	0.363	34.964
	2013	0.068*** (0.014)	-	0.968	51	0.309	41.951
	2015	0.068*** (0.014)	-	0.856	29	0.690	7.110
	2016	0.084** (0.038)	-	0.789	23	0.152	20.988
	2017	0.080*** (0.015)	-	0.996	11	0.736	-3.599
T-SWC model	All years	0.108*** (0.008)	0.365*** (0.045)	0.231	148	0.566	99.391
	2012	0.098*** (0.013)	0.414*** (0.087)	0.183	34	0.618	18.447
	2013	0.109*** (0.015)	0.341*** (0.076)	0.255	51	0.504	25.941
	2015	0.121*** (0.015)	0.182 (0.114)	0.843	29	0.707	6.399
	2016	0.097** (0.035)	0.259** (0.119)	0.451	23	0.282	18.049
	2017	0.087*** (0.019)	0.155 (0.218)	1.12	11	0.720	-2.270

Tab. S2 - Models coefficients for the feathermoss pine forest site for each season of measurements. (SE): standard error; (N): number of observations; (Adj. R²): adjusted R²; (AIC): Akaike Information Criterion; (*): p<0.10; (**): p<0.05; (***): p<0.01.

Model	Year	α (SE)	β (SE)	E ₀	N	Adj. R ²	AIC
T model	All years	0.096*** (0.012)	-	1.095	136	0.325	59.203
	2012	0.034* (0.017)	-	1.960	29	0.099	-3.339
	2013	0.060** (0.023)	-	1.392	47	0.108	4.815
	2015	0.109*** (0.027)	-	1.036	28	0.366	8.883
	2016	0.077 (0.053)	-	1.432	21	0.052	14.320
	2017	0.088*** (0.026)	-	1.797	11	0.517	-3.690
	T-SWC model	All years	0.111*** (0.010)	0.200*** (0.027)	1.143	136	0.519
2012		0.091*** (0.024)	0.181*** (0.059)	1.798	29	0.315	-10.349
2013		0.132*** (0.022)	0.328*** (0.058)	0.340	47	0.470	-18.664
2015		0.126*** (0.025)	0.351** (0.135)	0.348	28	0.481	4.170
2016		0.083 (0.054)	0.113 (0.149)	2.896	21	0.031	15.653
2017		0.106*** (0.031)	0.101 (0.096)	3.066	11	0.522	-3.112

Tab. S3 - Models coefficients for the mixed forest site for each season of measurements. (SE): standard error; (N): number of observations; (Adj. R²): adjusted R²; (AIC): Akaike Information Criterion; (*): p<0.10; (**): p<0.05; (***): p<0.01.

Model	Year	α (SE)	β (SE)	E_0	N	Adj. R ²	AIC
T model	All years	0.062*** (0.010)	-	2.018	138	0.230	162.225
	2012	0.041** (0.016)	-	1.760	33	0.146	-5.133
	2013	0.060*** (0.018)	-	1.856	44	0.192	6.620
	2015	0.137*** (0.021)	-	1.079	30	0.594	8.569
	2016	0.212*** (0.063)	-	0.323	20	0.349	21.159
	2017	0.031*** (0.006)	-	3.940	11	0.734	-8.313
T-SWC model	All years	0.064*** (0.009)	0.267*** (0.045)	1.435	138	0.382	132.866
	2012	0.069*** (0.023)	0.121 (0.075)	2.400	33	0.189	-5.901
	2013	0.104*** (0.018)	0.288*** (0.067)	0.652	44	0.431	-7.873
	2015	0.161*** (0.019)	0.333*** (0.098)	0.336	30	0.705	-0.060
	2016	0.210*** (0.065)	0.098 (0.242)	0.706	20	0.317	22.967
	2017	0.036*** (0.007)	-0.141 (0.121)	38.899	11	0.744	-8.038

Tab. S4 - Models coefficients for the destroyed area for each season of measurements. (SE): standard error; (N): number of observations; (Adj. R²): adjusted R²; (AIC): Akaike Information Criterion; (*): p<0.10; (**): p<0.05; (***): p<0.01.

Model	Year	α (SE)	β (SE)	E_0	N	Adj. R ²	AIC
T model	All years	0.070*** (0.013)	-	0.152	89	0.248	211.743
	2012	0.080*** (0.015)	-	0.264	10	0.760	6.537
	2013	0.076*** (0.010)	-	0.078	51	0.535	55.748
	2015	0.116*** (0.019)	-	0.115	28	0.579	41.984
T-SWC model	All years	0.079*** (0.013)	-0.157* (0.085)	1.407	89	0.267	210.315
	2012	0.091** (0.036)	0.167 (0.497)	0.299	10	0.730	8.376
	2013	0.082*** (0.011)	0.225 (0.163)	0.056	51	0.543	55.766
	2015	0.112*** (0.020)	-0.983 (1.369)	426.224	28	0.571	43.412