

Supplementary table 1. Ecological characterization and functional traits of the shrub species at Fogueruix (South face) and Bargadèra (North face)

	Ecological characterization							
Name of site	Site	Specie	Altitudinal distribution in the Pyrenees (m)	Abundance at regional scale	Substrate preference	Ecological ubiquity	Dominance	Colonization capacity
Fogueruix	South face	<i>Arctostaphylos uva-ursi</i>	400-2800	very high	no preference	medium	high	medium
Fogueruix	South face	<i>Juniperus communis</i>	1200-2800	high	no preference	high	medium	high
Fogueruix	South face	<i>Juniperus sabina</i>	800-2400	rare	no preference	low	low	low
Bargadèra	North face	<i>Rhododendron ferrugineum</i>	1000-2800	very high	acidic	medium	high	medium
Bargadèra	North face	<i>Vaccinium myrtillus</i>	400-2800	very high	acidic	high	high	high
Bargadèra	North face	<i>Calluna vulgaris</i>	0-2800	very high	acidic	medium	medium	high

	Functional traits									
Name of site	Site	Specie	Shrub type	Canopy height (cm)	Wood density (mg cm-3)	Leaf area (mm2)	Specific leaf area (mm2 mg-1)	Foliar dry mass (mg g-1)	Foliar [N] (%)	Seed weight (mg)
Fogueruix	South face	<i>Arctostaphylos uva-ursi</i>	evergreen	14.45 ± 3.03	539.38 ± 39.45	126.55 ± 41.05	5.35 ± 1.66	417.44 ± 55.55	1.04 ± 0.15	9.55 ± 2.05
Fogueruix	South face	<i>Juniperus communis</i>	evergreen	47.5 ± 8.35	629.01 ± 54.27	10.95 ± 1.76	6.14 ± 0.96	464.14 ± 62.59	1.36 ± 0.20	9.75 ± 1.47
Fogueruix	South face	<i>Juniperus sabina</i>	evergreen	40.73 ± 16.33	667.28 ± 44.91	43.06 ± 12.91	9.39 ± 0.98	480.38± 29.11	1.46 ± 0.12	16.88 ± 4.88
Bargadèra	North face	<i>Rhododendron ferrugineum</i>	evergreen	44.8 ± 4.10	457.18 ± 19	162.45 ± 19.38	6.10 ± 0.44	493.21± 16.29	1.62± 0.09	0.026 ± 0.003
Bargadèra	North face	<i>Vaccinium myrtillus</i>	deciduous	21.25 ± 3.06	571.89 ± 32.63	85.88 ± 32.25	22.17 ± 4.02	326.33±30.16	1.57 ± 0.14	0.26 ± 0.02
Bargadèra	North face	<i>Calluna vulgaris</i>	evergreen	19.15 ± 3.25	525.59 ± 24.42	1.42 ± 0.24	15.33 ± 1.52	430.02±157.69	1.30 ± 0.18	0.035± 0.003

Supplementary table 2 (ST2) Means ± SD values for the element concentrations (% dry weight/dry weight), mass (g m⁻²)* and element contents (g m⁻²)

Site	Vegetation type	Succession stage	Compartment	mass (g m ⁻²)*	sd	C	sd	N	sd	NP	sd	CP	sd	CN	sd	P	sd	K	sd	Mg	sd	Ca	sd	Fe	sd	C (g m ⁻²)	sd	N (g m ⁻²)	sd	P (g m ⁻²)	sd	K (g m ⁻²)	sd	Mg (g m ⁻²)	sd	Ca (g m ⁻²)	sd	Fe (g m ⁻²)	sd
North face	Grasses	Pure grassland	leaf	509.470	282.474	45.187	0.450	1.931	0.253	14.456	3.136	339.643	65.364	23.724	3.200	0.137	0.024	1.591	0.303	0.102	0.029	0.220	0.037	0.013	0.005	230.083	127.939	9.435	4.114	0.713	0.424	8.555	5.666	0.545	0.423	1.125	0.706	0.060	0.023
North face	Grasses	Pure grassland	litter	509.470	282.474	45.079	0.810	1.091	0.124	13.891	0.902	583.832	110.084	41.787	5.175	0.079	0.014	0.387	0.184	0.095	0.029	0.342	0.109	0.054	0.016	230.435	128.819	5.469	2.977	0.396	0.221	1.982	1.284	0.476	0.317	1.674	0.977	0.247	0.078
North face	Grasses	Pure grassland	soil	34904.459	14647.668	10.725	1.488	0.864	0.118	6.367	0.980	79.044	12.182	12.418	0.196	0.136	0.005	1.128	0.033	0.030	0.004	0.089	0.028	0.071	0.172	3645.707	1502.849	294.789	124.998	47.564	20.203	394.992	168.268	10.282	4.481	28.409	9.357	1428.556	605.051
North face	Grasses	young shrubland	leaf	324.960	198.685	44.703	0.244	1.205	0.149	11.072	5.283	416.877	211.345	37.533	4.652	0.133	0.068	1.185	0.212	0.101	0.030	0.240	0.038	0.006	0.002	145.280	89.007	3.751	1.909	0.360	0.124	3.646	1.799	0.326	0.196	0.752	0.396	0.019	0.009
North face	Grasses	young shrubland	litter	324.960	198.685	45.857	3.964	0.784	0.057	15.253	5.047	881.623	253.462	58.588	4.012	0.056	0.019	0.117	0.005	0.049	0.012	0.345	0.089	0.045	0.009	146.892	83.962	2.529	1.457	0.160	0.053	0.376	0.216	0.165	0.108	1.249	1.080	0.147	0.083
North face	Grasses	young shrubland	soil	34412.597	2166.914	7.830	3.657	0.437	0.225	4.696	3.026	83.302	48.492	18.156	1.321	0.098	0.022	1.286	0.158	0.006	0.002	0.158	0.015	3.883	0.885	2672.341	1156.422	148.603	70.145	33.987	9.921	443.628	68.462	2.317	0.753	54.641	8.237	1349.040	392.592
North face	<i>Calluna vulgaris</i>	young shrubland	leaf	281.440	133.730	50.043	0.722	1.396	0.228	16.168	2.058	667.108	104.996	41.184	2.118	0.089	0.023	0.495	0.088	0.247	0.034	0.487	0.063	0.011	0.002	140.373	65.644	4.138	2.506	0.271	0.185	1.473	0.908	0.714	0.396	1.403	0.817	0.030	0.009
North face	<i>Calluna vulgaris</i>	young shrubland	litter	92.875	4.012	50.580	0.814	1.343	0.182	18.410	0.551	890.371	120.873	48.263	5.331	0.075	0.018	0.219	0.048	0.197	0.031	0.664	0.074	0.053	0.014	46.881	2.014	1.289	0.069	0.074	0.005	0.218	0.012	0.183	0.008	0.602	0.023	0.046	0.001
North face	<i>Calluna vulgaris</i>	young shrubland	soil	19705.414	2420.827	16.130	0.679	0.999	0.120	8.178	1.563	145.882	34.839	17.710	1.242	0.095	0.014	1.019	0.040	0.010	0.001	0.156	0.026	2.759	0.421	3170.267	256.714	195.344	0.687	18.577	0.467	201.269	32.423	1.865	0.043	30.306	1.473	538.489	16.017
North face	<i>Calluna vulgaris</i>	young shrubland	stems	630.440	151.417	48.842	0.319	0.482	0.037	15.002	3.661	1819.553	596.162	119.189	13.004	0.038	0.007	0.291	0.038	0.064	0.011	0.139	0.026	0.011	0.003	307.930	73.893	3.049	0.843	0.240	0.086	1.832	0.505	0.398	0.101	0.857	0.154	0.067	0.014
North face	<i>Calluna vulgaris</i>	mature shrubland	leaf	241.190	103.517	49.909	0.290	1.215	0.069	15.997	1.496	594.070	163.987	36.679	6.731	0.076	0.012	0.412	0.061	0.222	0.029	0.455	0.034	0.010	0.001	120.440	51.888	2.954	1.375	0.180	0.078	0.964	0.360	0.520	0.203	1.081	0.437	0.025	0.011
North face	<i>Calluna vulgaris</i>	mature shrubland	litter	79.593	3.105	50.816	0.356	1.063	0.128	18.290	2.213	707.698	189.492	38.210	5.468	0.058	0.009	0.282	0.039	0.148	0.020	0.552	0.092	0.047	0.016	40.488	1.587	0.864	0.041	0.047	0.002	0.223	0.008	0.120	0.006	0.457	0.024	0.039	0.002
North face	<i>Calluna vulgaris</i>	mature shrubland	soil	58136.943	18017.805	16.200	4.181	0.908	0.199	10.520	0.302	170.887	18.122	16.227	1.257	0.111	0.006	0.923	0.062	0.026	0.004	0.149	0.043	2.929	0.822	8953.515	1382.650	507.527	83.773	63.802	17.349	540.528	191.720	14.969	3.157	91.715	56.596	1594.039	97.568
North face	<i>Calluna vulgaris</i>	mature shrubland	stems	941.710	234.505	48.522	0.387	0.411	0.050	13.004	1.432	1331.117	227.657	101.931	8.929	0.029	0.011	0.191	0.038	0.054	0.007	0.141	0.007	0.010	0.002	457.223	115.314	3.941	1.397	0.291	0.175	1.781	0.495	0.508	0.163	1.334	0.351	0.093	0.028
North face	<i>Rhododendrum ferrugineum</i>	young shrubland	leaf	320.160	3.219	51.960	0.095	1.584	0.064	16.990	1.149	536.046	71.272	31.465	2.192	0.122	0.029	0.363	0.020	0.253	0.041	0.719	0.131	0.005	0.001	166.355	1.621	5.069	0.171	0.390	0.094	1.161	0.069	0.811	0.134	2.304	0.429	0.015	0.001
North face	<i>Rhododendrum ferrugineum</i>	young shrubland	litter	144.072	1.448	52.357	0.223	0.620	0.095	21.658	2.398	1298.731	221.473	59.687	4.157	0.056	0.044	0.110	0.020	0.266	0.020	1.181	0.108	0.009	0.002	75.430	0.625	0.893	0.131	0.081	0.064	0.158	0.029	0.383	0.031	1.702	0.166	0.012	0.002
North face	<i>Rhododendrum ferrugineum</i>	young shrubland	soil	28598.726	18288.659	12.165	4.606	0.892	0.257	9.524	0.447	166.175	6.527	17.456	0.394	0.096	0.025	1.233	0.188	0.007	0.002	0.130	0.040	2.980	1.023	3123.013	1362.050	185.905	94.497	25.160	11.426	361.177	249.255	1.805	0.738	35.623	21.500	877.189	742.115
North face	<i>Rhododendrum ferrugineum</i>	young shrubland	stems	2229.200	195.898	50.786	0.189	0.470	0.058	15.244	1.042	1239.203	225.822	81.270	13.415	0.040	0.008	0.141	0.021	0.050	0.007	0.165	0.007	0.006	0.002	1132.120	99.946	10.482	1.493	0.883	0.189	3.134	0.538	1.103	0.200	3.670	0.190	0.133	0.036
North face	<i>Rhododendrum ferrugineum</i>	mature shrubland	leaf	383.630	199.531	51.985	0.252	1.659	0.120	13.560	3.155	442.628	88.722	32.851	1.330	0.098	0.012	0.370	0.024	0.201	0.022	0.692	0.167	0.005	0.001	199.324	103.298	6.399	3.462	0.382	0.215	1.428	0.766	0.769	0.410	2.617	1.401	0.017	0.007
North face	<i>Rhododendrum ferrugineum</i>	mature shrubland	litter	172.634	89.789	52.341	0.405	0.881	0.065	16.100	9.156	1292.633	636.492	86.022	14.128	0.041	0.008	0.151	0.026	0.226	0.020	1.180	0.102	0.009	0.001	90.089	45.995	1.510	0.741	0.070	0.031	0.261	0.136	0.401	0.241	2.106	1.318	0.015	0.007
North face	<i>Rhododendrum ferrugineum</i>	mature shrubland	soil	46058.917	12133.859	16.685	3.526	0.954	0.190	7.287	1.995	125.387	26.548	17.657	3.082	0.101	0.025	1.095	0.179	0.017	0.005	0.124	0.023	3.274	1.226	7388.763	518.270	423.669	35.424	44.532	3.801	489.277	57.901	7.522	2.468	55.700	9.821	1426.293	348.089
North face	<i>Rhododendrum ferrugineum</i>	mature shrubland	stems	3410.090	587.799	50.996	0.817	0.641	0.111	12.099	1.642	1323.874	268.818	109.204	13.256	0.042	0.008	0.158	0.027	0.043	0.009	0.197	0.042	0.008	0.003	1741.600	321.935	21.731	4.115	1.427	0.261	5.282	0.623	1.491	0.420	6.776	1.982	0.286	0.112
North face	<i>Vaccinium myrtillus</i>	young shrubland	leaf	53.800	13.350	48.600	0.088	1.650	0.162	10.523	0.998	341.089	54.667	32.279	2.043	0.129	0.046	0.933	0.164	0.250	0.041	1.019	0.076	0.009	0.001	26.151	6.503	0.888	0.222	0.071	0.030	0.499	0.123	0.131	0.017	0.552	0.158	0.005	0.001
North face	<i>Vaccinium myrtillus</i>	young shrubland	litter	53.800	13.350	49.751	0.461	1.076	0.075	9.092	1.747	433.850	108.691	47.585	5.034	0.083	0.028	0.739	0.077	0.199	0.026	0.686	0.104	0.007	0.001	26.741	6.459	0.572	0.103	0.045	0.019	0.395	0.087	0.108	0.036	0.377	0.148	0.004	0.002
North face	<i>Vaccinium myrtillus</i>	young shrubland	soil	27251.194	6717.611	9.620	2.387	0.537	0.166	5.939	1.719	99.664	27.625	16.834	0.703	0.106	0.026	1.229	0.083	0.014	0.008	0.156	0.024	4.320	1.043	2571.347	767.210	143.393	48.784	28.164	7.170	332.893	78.092	3.835	2.800	42.915	12.629	1177.766	439.132
North face	<i>Vaccinium myrtillus</i>	young shrubland	stems	251.720	54.019	48.454	0.666	0.569	0.057	13.058	2.178	1064.300	74.665	82.416	7.651	0.047	0.008	0.169	0.046	0.044	0.003	0.278	0.048	0.011	0.003	121.903	25.792	1.445	0.404	0.119	0.042	0.419	0.130	0.110	0.019	0.715	0.253	0.027	0.007
North face	<i>Vaccinium myrtillus</i>	mature shrubland	leaf	99.850	23.341	48.419	0.116	1.505	0.094	13.915	4.472	421.145	173.811	29.667	2.889	0.144	0.020	0.885	0.113	0.241	0.030	0.921	0.069	0.010	0.001	48.352	11.326	1.509	0.388	0.146	0.046	0.873	0.163	0.235	0.027	0.922	0.250	0.009	0.002
North face	<i>Vaccinium myrtillus</i>	mature shrubland	litter	99.850	23.341	49.618	0.234	1.052	0.121	14.045	4.439	644.100	172.424	46.402	3.046	0.119	0.024	0.694	0.150	0.202	0.016	0.718	0.107	0.007	0.001	49.538	11.529	1.064	0.330	0.121	0.044	0.684	0.168	0.200	0.035	0.717	0.199	0.007	0.002
North face	<i>Vaccinium myrtillus</i>	mature shrubland	soil	37416.401	24137.044	13.105	3.673	0.783	0.236	5.221	2.047	92.505	26.199	18.164	1.609	0.132	0.017	1.076	0.025	0.029	0.00																		

Supplementary table 3 (ST3) GLS Models North Face																																				
Function associated to gls	%C						d15N			%N			NP			%P			Leaves CN			CP			%K			%Fe			%Ca			%Mg		
	Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value				
	linear	linear					linear	linear					linear	linear					linear	linear				linear	linear		linear	linear		linear	linear					
(Intercept)	45.20	0.00000		0.71	0.17400		1.93	0.00000		14.50	0.00000		0.14	0.00000		23.70	0.00000		340.00	0.00002		1.59	0.00000		0.01	0.00000		0.22	0.00001		0.10	0.0000				
Northern grassland young	-0.48	0.06020	.	-5.28	0.00000	***	-0.73	0.00000	***	-3.38	0.13500		-0.00	0.89900		13.80	0.00001	***	77.20	0.40500		-0.41	0.00102	**	-0.01	0.00014	***	0.02	0.7510		-0.00	0.9740				
Calluna vulgaris young	4.86	0.00000	***	-5.46	0.00000	***	-0.54	0.00006	***	1.54	0.48800		-0.05	0.03180	*	13.00	0.00003	***	254.00	0.01010	*	-1.10	0.00000	***	-0.00	0.20800		0.27	0.0003	***	0.15	0.0000	***			
Calluna vulgaris mature	4.72	0.00000	***	-5.34	0.00000	***	-0.72	0.00000	***	1.71	0.44100		-0.06	0.01880	*	17.50	0.00000	***	327.00	0.00147	**	-1.18	0.00000	***	-0.00	0.06420	.	0.24	0.0010	**	0.12	0.0000	***			
Rhododendron ferrugineum young	6.77	0.00000	***	-6.51	0.00000	***	-0.35	0.00458	**	-0.90	0.68600		-0.02	0.53900		9.13	0.00131	**	103.00	0.27000		-1.23	0.00000	***	-0.01	0.00001	**	0.50	0.0000	***	0.15	0.0000	***			
Rhododendron ferrugineum mature	6.80	0.00000	***	-5.95	0.00000	***	-0.27	0.02180	*	2.53	0.25800		-0.04	0.10700		7.74	0.00507	**	196.00	0.04150	*	-1.22	0.00000	***	-0.01	0.00001	**	0.47	0.0000	***	0.10	0.0002	***			
Vaccinium myrtillus young	3.41	0.00000	***	-4.61	0.00000	***	-0.28	0.01840	*	-0.54	0.80700		-0.01	0.75800		5.94	0.02630	*	81.50	0.38000		-0.66	0.00000	***	-0.00	0.00767	**	0.80	0.0000	***	0.15	0.0000	***			
Vaccinium myrtillus mature	3.23	0.00000	***	-3.32	0.00011	***	-0.43	0.00079	***	-3.93	0.08460	.	0.01	0.76700		8.56	0.00231	**	1.45	0.98700		-0.71	0.00000	***	-0.00	0.02320	**	0.70	0.0000	***	0.14	0.0000	***			
Litter																																				
Function associated to gls	NSC	NSC		NSC	NSC		linear	linear		gaussian	gaussian		NSC	NSC		NSC	NSC		NSC	NSC		linear	linear		rational	rational		gaussian	gaussian		linear	linear				
(Intercept)	45.10	0.0000		-1.05	0.0357		1.09	0.0000		19.35	0.1010		0.08	0.0000		41.80	0.0000		584.00	0.0003		0.39	0.0000		0.06	0.0000		0.34	0.0000		0.09	0.0000				
Northern grassland young	0.78	0.4660		-3.92	0.0000	***	-0.31	0.0008	***	-1.15	0.9090		-0.02	0.1700		16.80	0.0015	**	298.00	0.1440		-0.27	0.0003	***	-0.01	0.0641	.	0.03	0.6210		-0.05	0.0049	**			
Calluna vulgaris young	5.50	0.0000	***	-4.47	0.0000	***	0.25	0.0042	**	2.01	0.8450		-0.00	0.7980		-3.58	0.4540		124.00	0.5360		-0.17	0.0158	**	-0.01	0.0854	*	0.33	0.0000	***	0.10	0.0000	***			
Calluna vulgaris mature	5.74	0.0000	***	-4.49	0.0000	***	-0.03	0.7350		7.58	0.3900		-0.02	0.2090		6.48	0.1810		307.00	0.1330		-0.11	0.1180		-0.01	0.1220		0.22	0.0022	**	0.05	0.0030	**			
Rhododendron ferrugineum young	7.28	0.0000	***	-4.99	0.0000	***	-0.47	0.0000	***	-1.51	0.8830		-0.02	0.1700		44.20	0.0000	***	709.00	0.0015	**	-0.28	0.0003	***	-0.05	0.0000	***	0.84	0.0000	***	0.17	0.0000	***			
Rhododendron ferrugineum mature	7.26	0.0000	***	-3.79	0.0000	***	-0.21	0.0145	*	5.90	0.2490		-0.04	0.0298	*	17.90	0.0008	***	715.00	0.0014	**	-0.24	0.0013	**	-0.06	0.0000	***	0.86	0.0000	***	0.13	0.0000	***			
Vaccinium myrtillus young	4.67	0.0002	***	-3.37	0.0000	***	-0.01	0.8570		-5.80	0.5740		0.00	0.8330		4.62	0.3350		60.30	0.7630		0.35	0.0000	***	-0.05	0.0000	***	0.35	0.0000	***	0.10	0.0000	***			
Vaccinium myrtillus mature	4.54	0.0002	***	-1.27	0.0687	**	-0.04	0.6350		-2.34	0.7430		0.04	0.0236	*	5.80	0.2290		-150.00	0.4540		0.31	0.0001	***	-0.05	0.0000	***	0.38	0.0000	***	0.11	0.0000	***			
Soil																																				
Function associated to gls	NSC	NSC		NSC	NSC		rational	rational		NSC	NSC		gaussian	gaussian		NSC	NSC		NSC	NSC		linear	linear		NSC	NSC		gaussian	gaussian		linear	linear				
(Intercept)	10.70	0.0000		5.09	0.0000		0.86	0.0000		6.37	0.0000		0.14	0.0000		12.40	0.0000		79.00	0.0001		1.13	0.0000		4.07	0.0000		0.09	0.0001		0.03	0.0000				
Northern grassland young	-1.10	0.6740		-3.30	0.0227	*	-0.31	0.0706		-0.69	0.6626		-0.04	0.0209	*	5.85	0.0000	***	21.40	0.3810		0.10	0.1350		-0.13	0.8610		0.09	0.0019	**	-0.02	0.0001				
Calluna vulgaris young	4.92	0.1640		4.16	0.0254	*	0.12	0.5680		4.37	0.0499	*	-0.03	0.0835	.	4.70	0.0018	**	105.00	0.0054	**	-0.08	0.3360		-1.61	0.1230		0.06	0.0458	*	-0.02	0.0020	**			
Calluna vulgaris mature	4.20	0.1290		-3.14	0.0284	*	0.02	0.9310		1.39	0.3863		-0.02	0.2310		4.37	0.0005	***	52.30	0.0479	*	-0.22	0.0041	**	-1.44	0.0797	.	0.09	0.0041	**	-0.00	0.3430				
Rhododendron ferrugineum young	-1.93	0.4670		-0.94	0.4660		-0.37	0.0403	*	1.16	0.4678		-0.05	0.0138	*	3.25	0.0038	**	39.00	0.1250		0.27	0.0010	**	-1.09	0.1730		0.06	0.0336	*	-0.02	0.0001	***			
Rhododendron ferrugineum mature	8.13	0.0088	**	-2.89	0.0409	*	0.22	0.2340		3.02	0.0752	.	-0.02	0.3250		5.03	0.0001	***	84.60	0.0042	**	0.11	0.1100		-0.59	0.4460		0.06	0.0508	.	-0.01	0.0053	**			
Vaccinium myrtillus young	-1.30	0.5760		-3.98	0.0040	**	-0.29	0.0779	*	-0.86	0.5404		-0.03	0.0623	.	5.29	0.0000	***	15.90	0.4570		0.13	0.0420	*	-0.10	0.8780		0.07	0.0132	*	-0.01	0.0020	**			
Vaccinium myrtillus mature	0.82	0.7230		-4.97	0.0009	***	-0.18	0.2710		-1.20	0.3937		-0.00	0.9250		4.47	0.0001	***	7.96	0.7080		-0.06	0.3000		0.07	0.9150		0.11	0.0004	***	0.00	0.8550				
Leaves																																				
Function associated to gls	C (g m-2)			N (g m-2)			Mg (g m-2)			P (g m-2)			K (g m-2)			Fe (g m-2)			Ca (g m-2)																	
	Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value																
	NSC	NSC		rational	rational		gaussian	gaussian		rational	rational		gaussian	gaussian		gaussian	gaussian		gaussian	gaussian																
(Intercept)	230.00	0.00000		10.00	0.00000		0.63	0.00001		0.74	0.00000		8.16	0.00000		0.12	0.00025		1.53	0.00001																
Northern grassland young	-84.80	0.11100		-6.83	0.00010	***	-0.30	0.06010	.	-0.34	0.00879	**	-4.26	0.00621	**	-0.10	0.00030	***	-0.71	0.07990	.															
Calluna vulgaris young	-89.70	0.09320		-4.58	0.00471	**	0.12	0.43100		-0.51	0.00031	***	-4.89	0.00210	**	-0.09	0.00086	***	-0.08	0.83900																
Calluna vulgaris mature	-110.00	0.04300	*	-7.05	0.00026	***	-0.11	0.54500		-0.56	0.00039	***	-7.20	0.00018	***	-0.08	0.00075	***	-0.45	0.33100																
Rhododendron ferrugineum young	-63.70	0.22600		-5.48	0.00182	**	0.15	0.41000		-0.34	0.01270	*	-7.39	0.00004	***	-0.10	0.00038	***	0.69	0.13100																
Rhododendron ferrugineum mature	-30.80	0.55500		-4.09	0.00000	***	0.09	0.00000	***	-0.37	0.00000	***	-6.18	0.00000	***	-0.08	0.00000	***	0.81	0.00000	***															
Vaccinium myrtillus young	-204.00	0.00056	***	-8.77	0.00001	***	-0.51	0.00783	**	-0.66	0.00003	***	-6.46	0.00024	***	-0.11	0.00013	***	-1.00	0.03760	*															
Vaccinium myrtillus mature	-182.00	0.00166	**	-8.50	0.00003	***	-0.40	0.03710	*	-0.59	0.00019	***	-7.29	0.00015	***	-0.08	0.00006	***	-0.61	0.19300																
Litter																																				
Function associated to gls	NSC	NSC		NSC	NSC		linear	linear		linear	linear		linear	linear		gaussian	gaussian		gaussian	gaussian																
(Intercept)	542.00	0.0000		13.10	0.0000		0.48	0.0000		0.34	0.0000		1.98	0.0000		0.34	0.0248		1.72	0.0000											</					

	Supplementary table 4 (ST4) GLS models North Face Young Vs Mature shrubalnd																															
	Calluna vulgaris																															
	Leaves																															
	%C		delta ¹⁵ N			%N		NP		%P		CN		CP		%K		%Fe		%Ca		%Mg										
	Value	p value	Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value							
Function associated to gls	NSC	NSC	NSC	NSC		linear	linear		NSC	NSC		linear	linear		NSC	NSC		spherical	spherical		linear	linear		rational	rational							
(Intercept)	50.00	0.0000	-4.7478	0.0005		1.3500	0.0000		16.0000	0.0000		0.0887	0.0001		36.7000	0.0000		594.0000	0.0001		0.4841	0.0000		0.0113	0.0000		0.4870	0.0000		0.2450	0.0000	
Calluna vulgaris mature	-0.13	0.7430	0.1245	0.9045		-0.1550	0.3660		0.1710	0.8970		-0.0128	0.3560		4.5000	0.2490		73.0000	0.4820		-0.0771	0.2786		-0.0011	0.3860		-0.0328	0.3960		-0.0247	0.3670	

	Litter																																
Function associated to gls	NSC	NSC	NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		linear	linear		linear	linear		gaussian	gaussian		linear	linear					
(Intercept)	50.60	0.0000		-5.5133	0.0002		-30.4000	0.0000		50.6000	0.0000		-5.5133	0.0002		38.2000	0.0000		708.0000	0.0001		0.2180	0.0001		0.0525	0.0004		0.6660	0.0000		0.1970	0.0000	
Calluna vulgaris mature	0.24	0.6150		-0.0210	0.9840		0.7020	0.1700		0.2360	0.6150		-0.0210	0.9840		10.1000	0.0389	*	183.0000	0.1550		0.0630	0.0873	.	-0.0044	0.7025		-0.1100	0.1260		-0.0497	0.0358	*

	Stems																															
Function associated to gls	NSC	NSC	NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC				
(Intercept)	48.80	0.0000		-5.3020	0.0002		0.4810	0.0000		13.0000	0.0001		0.0378	0.0002		102.0000	0.0000		1330.0000	0.0011		0.2910	0.0000		0.0110	0.0001		0.1390	0.0000		0.0640	0.0000
Calluna vulgaris mature	-0.31	0.2780		-0.0125	0.9896		-0.0702	0.0656 *		2.0000	0.3490		-0.0085	0.2479		17.3000	0.0713		488.0000	0.1770		-0.1000	0.0096 *		-0.0010	0.6036		0.0015	0.9130		-0.0105	0.1610

	Soil																															
Function associated to gls	NSC	NSC	NSC	NSC		spherical	spherical		NSC	NSC		spherical	spherical		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC				
(Intercept)	15.65	0.2400		9.2510	0.0956		0.9140	0.2100		10.7330	0.1250		0.0850	0.0738		17.1160	0.0401		183.7000	0.1500		1.0470	0.0587		2.4610	0.2920		0.1370	0.1639		0.0090	0.3570
Calluna vulgaris mature	-0.73	0.9390		-7.3035	0.1467		-0.0350	0.9420		-2.9800	0.4580		0.0270	0.2687		-0.3270	0.8456		-52.3900	0.5100		-0.1435	0.4398		0.1670	0.9290		0.0435	0.5048		0.0170	0.2460

	Leaves																
	C (gm ⁻²)		N (gm ⁻²)		Mg (gm ⁻²)		P (gm ⁻²)		K (gm ⁻²)		Fe (gm ⁻²)		Ca (gm ⁻²)				
	Value	<i>p value</i>	Value	<i>p value</i>		Value	<i>p value</i>		Value	<i>p value</i>		Value	<i>p value</i>		Value	<i>p value</i>	
Function associated to gls	NSC	NSC	NSC	NSC		NSC	NSC		linear	linear		NSC	NSC		NSC	NSC	

(Intercept)	140.37	0.0032	4.1382	0.0064	0.7058	0.0044	0.2668	0.0100	1.4728	0.0053	0.0300	0.0011	1.4025	0.0052
<i>Calluna vulgaris</i> mature	-19.93	0.6506	-1.1845	0.4390	-0.1770	0.4751	-0.0835	0.4578	-0.5088	0.3380	-0.0048	0.5373	-0.3218	0.5135

	Litter																				
Function associated to gls	NSC	NSC		NSC	NSC		exponential	exponential		linear	linear		spherical	spherical		spherical	spherical		linear	linear	
(Intercept)	608.00	0.0000		16.1000	0.0000		0.1780	0.0049		0.0738	0.0104		0.2092	0.0137		0.0441	0.0082		0.5948	0.0033	
Calluna vulgaris mature	2.83	0.6150		-3.3600	0.0459	*	-0.0565	0.3801		-0.0258	0.4124		0.0171	0.8539		-0.0032	0.8579		-0.1238	0.5343	

	Stem																				
Function associated to gls	NSC	NSC		NSC	NSC		linear	linear		spherical	spherical		gaussian	gaussian		spherical	spherical		gaussian	gaussian	
(Intercept)	308.00	0.0007		3.0490	0.0019		0.3975	0.0012		0.2327	0.0168		1.7310	0.0010		0.0665	0.0010		0.8552	0.0009	
Calluna vulgaris mature	149.00	0.0720	.	0.8915	0.3163		0.1173	0.2957		0.0647	0.5566		0.0616	0.8925		0.0265	0.1448		0.4937	0.0523	*

	Soil																		
Function associated to gls	NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		
(Intercept)	3350.00	0.0828		195.8290	0.0302		1.8340	0.6100		18.2460	0.5530		224.1950	0.5820		527.1630	0.1880	29.2640	0.7460
<i>Calluna vulgaris</i> mature	5890.00	0.0578	*	355.0500	0.0204	*	14.8650	0.1350		55.7740	0.2810		394.4970	0.4670		1085.0830	0.1140	96.4400	0.4600

	<i>Rhododendron ferrugineum</i>						
	Leaves						
	% C	delta15N	% N	NR	% D	CN	CD

	%C		delta-13N			%N			NP			%P			CN			CP			%K			%Fe			%Ca			%Mg		
	Value	p value	Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value	
Function associated to gls	linear	linear	gaussian	gaussian		linear	linear	NSC	NSC		spherical	spherical		NSC	NSC		NSC	NSC		linear	linear		spherical	spherical		NSC	NSC		linear	linear		
(Intercept)	52.00	0.0000	-5.7800	0.0000		1.5900	0.0000	13.6000	0.0000		0.1220	0.0000		32.9000	0.0000		443.0000	0.0000		0.3620	0.0000		0.0045	0.0000		0.7085	0.0001		0.2510	0.0000		
Rhododendron ferrugineum mature	0.02	0.8600	0.5080	0.1430		0.0551	0.4650	3.4300	0.0871		-0.0235	0.1850		-1.3900	0.3210		93.4000	0.1520		0.0070	0.6740		-0.0000	1.0000		-0.0138	0.9047		-0.0539	0.0907		

	Litter																														
Function associated to gls	spherical	spherical	NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		linear	linear		linear	linear		gaussian	gaussian		linear	linear			
(Intercept)	52.40	0.0000	-6.0400	0.0000		0.6200	0.0000		16.0998	0.0030		0.0560	0.0125		86.0000	0.0000		1290.0000	0.0016		0.1100	0.0001		0.0085	0.0000		1.1800	0.0000		0.2660	0.0000

<i>Rhododendron ferrugineum</i> mature	-0.02	0.9460		1.2000	0.0241 *		0.2600	0.0039 **		5.5580	0.2846		-0.0147	0.5361		-26.3000	0.0117 *		6.1000	0.9860		0.0408	0.0488 *		-0.0000	1.0000		-0.0008	0.9920		-0.0397	0.0332		
	Stems																																	
Function associated to gls	NSC	NSC		NSC	NSC		NSC	NSC			linear	linear			NSC	NSC			NSC	NSC			linear	linear			linear	linear			linear	linear		
(Intercept)	50.80	0.0000		-5.1300	0.0000		0.4700	0.0000		12.1000	0.0000		0.0395	0.0001		109.0000	0.0000		1320.0000	0.0000		0.1410	0.0000		0.0060	0.0025		0.1660	0.0000		0.0495	0.0000		
<i>Rhododendron ferrugineum</i> mature	0.21	0.6340		-0.8640	0.2000		0.1710	0.0342 *		3.1500	0.0178 *		0.0028	0.6315		-27.9000	0.0252 *		-84.7000	0.6470		0.0172	0.3550		0.0023	0.2343		0.0351	0.1690		-0.0063	0.3220		
	Soil																																	
Function associated to gls	NSC	NSC		NSC	NSC		linear	linear			NSC	NSC			NSC	NSC			NSC	NSC			gaussian	gaussian			NSC	NSC			NSC	NSC		
(Intercept)	12.17	0.0010		2.4305	0.0298		0.6915	0.0009		7.2900	0.0001		0.0960	0.0003		17.7000	0.0000		125.0000	0.0000		1.2700	0.0000		2.9803	0.0019		0.1298	0.0002		0.0070	0.0136		
<i>Rhododendron ferrugineum</i> mature	4.52	0.1701		0.3778	0.7661		0.2628	0.1516		2.2400	0.0712 .		0.0053	0.7771		-0.2010	0.9010		40.8000	0.0245 *		-0.1990	0.2420			0.2940	0.7253		-0.0055	0.8210		0.0098	0.0145 *	
	Leaves																																	
	C (gm ⁻²)		N (gm ⁻²)		Mg (gm ⁻²)		P (gm ⁻²)		K (gm ⁻²)		Fe (gm ⁻²)		Ca (gm ⁻²)																					
	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>																				
Function associated to gls	NSC	NSC	NSC	NSC	linear	linear	spherical	spherical	NSC	NSC	NSC	NSC	NSC	NSC																				
(Intercept)	166.00	0.0039	5.0690	0.0061	0.8107	0.0018	0.3898	0.0033	1.1610	0.0053	0.0145	0.0015	2.3035	0.0044																				
<i>Rhododendron ferrugineum</i> mature	33.00	0.5470	1.3303	0.4719	-0.0415	0.8537	-0.0083	0.9462	0.2665	0.5142	0.0025	0.5277	0.3130	0.6841																				
	Litter																																	
Function associated to gls	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	
(Intercept)	630.00	0.0000	7.4600	0.0000	0.3833	0.0042	0.0812	0.0184	0.1582	0.0182	0.0120	0.0040	1.7017	0.0111																				
<i>Rhododendron ferrugineum</i> mature	-0.19	0.9470	3.1300	0.0040 *	0.0175	0.8900	-0.0117	0.7539	0.1028	0.1899	0.0025	0.5301	0.4040	0.5654																				
	Stem																																	
Function associated to gls	NSC	NSC	NSC	NSC	linear	linear	linear	linear	NSC	NSC	gaussian	gaussian	NSC	NSC																				
(Intercept)	1130.00	7.76E-05	1.05E+01	5.07E-04	1.1025	0.0005	0.8828	0.0002	3.1338	0.0000	0.1361	0.0266	3.6695	0.0020																				
<i>Rhododendron ferrugineum</i> mature	609.00	0.0111 *	11.2000	0.0021 **	0.3888	0.1456	0.5443	0.0150	2.1485	0.0020	0.1374	0.0843	3.1068	0.0206																				
	Soil																																	
Function associated to gls	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	
(Intercept)	3120.00	0.0009	186.0000	0.0020	1.8050	0.0948	25.1600	0.0010	361.0000	0.0072	877.1885	0.0232	35.6228	0.0053																				
<i>Rhododendron ferrugineum</i> mature	4270.00	0.0011 **	238.0000	0.0033 **	5.7165	0.0044 **	19.3715	0.0182 *	128.0000	0.3550	549.1040	0.2288	20.0768	0.1403																				
	<i>Vaccinium myrtillus</i>																																	
	Leaves																																	
	%C		delta ¹⁵ N		%N		NP		%P		CN		CP		%K		%Fe		%Ca		%Mg													
	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>
Function associated to gls	linear	linear			linear	linear			linear	linear					linear	linear	rational	rational	spherical	spherical	linear	linear												
(Intercept)	48.60	0.0000	-3.90	0.0002	1.65	0.0000	13.92	0.0001	0.13	0.0010	29.70	0.0000	421.00	0.0006	0.93	0.0000	0.0088	0.0000	1.0200	0.0000	0.2500	0.0000												
<i>Vaccinium martillos</i> mature	-0.18	0.0463 *	1.29	0.1084	-0.15	0.1720	-3.39	0.1891	0.02	0.6135	2.61	0.1900	-80.10	0.4130	-0.04	0.6730	0.0008	0.0972 .	-0.0977	0.1040	-0.0083	0.7550												
	Litter																																	
Function associated to gls	spherical	spherical	NSC	NSC	linear	linear	NSC	NSC	spherical	spherical	NSC	NSC	NSC	NSC	linear	linear	gaussian	gaussian	linear	linear	gaussian	gaussian	linear	linear	gaussian	gaussian	linear	linear	gaussian	gaussian	linear	linear		
(Intercept)	49.80	0.0000	-4.42	0.0000	1.08	0.0000	14.04	0.0002	0.08	0.0009	46.40	0.0000	644.00	0.0001	0.74	0.0000	0.0070	0.0000	0.6860	0.0000	0.1980	0.0000												
<i>Vaccinium martillos</i> mature	-0.13	0.6240	2.11	0.0117	-0.02	0.7490	-4.95	0.0831 .	0.03	0.1296	1.18	0.7020	-210.00	0.0847 .	-0.04	0.6590	-0.0003	0.6450	0.0320	0.6830	0.0048	0.7700												
	Stems																																	
Function associated to gls	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	spherical	spherical	spherical	spherical	spherical	spherical	spherical	spherical	spherical	spherical	spherical	spherical	spherical	spherical	spherical	spherical	spherical	spherical	spherical	
(Intercept)	48.50	0.0000	-3.31	0.0131	0.57	0.0000	12.50	0.0001	0.05	0.0000	85.70	0.0000	1060.00	0.0000	0.17	0.0000	0.1690	0.0000	0.1690	0.0000	0.1690	0.0000												
<i>Vaccinium martillos</i> mature	-0.26	0.5290	1.24	0.3925	0.02	0.6530	0.56	0.7670	-0.00	0.7700	-3.31	0.5720	4.00	0.9690	-0.03	0.2660	-0.0286	0.2660	-0.0286	0.2660	-0.0286	0.2660												
	Soil																																	
Function associated to gls	NSC	NSC	NSC	NSC	spherical	spherical	NSC	NSC	spherical	spherical	NSC	NSC	NSC	NSC	linear	linear	NSC	NSC	linear	linear	NSC	NSC	linear	linear	spherical	spherical	spherical	spherical	spherical	spherical	spherical	spherical	spherical	
(Intercept)	9.62	0.0008	0.53	0.5230	0.54	0.0019	5.22	0.0015	0.11	0.0001	18.20	0.0000	92.50	0.0005	1.23	0.0000	4.3200	0.0000	0.1574	0.0005	0.0135	0.0043												
<i>Vaccinium martillos</i> mature	3.49	0.1627	0.07	0.9540	0.25	0.1382	0.72	0.6106	0.03	0.1470	-1.33	0.1810	7.16	0.7200	-0.15	0.0122	-0.3400	0.5580	0.0118	0.7368	0.0157	0.0106 *												
	Leaves																																	
	C (gm ⁻²)		N (gm ⁻²)		Mg (gm ⁻²)		P (gm ⁻²)		K (gm ⁻²)		Fe (gm ⁻²)		Ca (gm ⁻²)																					

	Value	<i>p value</i>		Value	<i>p value</i>		Value	<i>p value</i>		Value	<i>p value</i>		Value	<i>p value</i>		Value	<i>p value</i>		Value	<i>p value</i>	
Function associated to gls	NSC	NSC		gaussian	gaussian		gaussian	gaussian		linear	linear		linear	linear		linear	linear		spherical	spherical	
(Intercept)	26.15	0.0013		0.87	0.0028		0.13	0.0003		0.05	0.0513		0.39	0.0011		0.00	0.0034		0.38	0.0051	
<i>Vaccinium martillos</i> mature	22.20	0.0145	*	0.58	0.0615	.	0.11	0.0046	**	0.07	0.0390	*	0.28	0.0254	*	0.00	0.0445	*	0.34	0.0341	*
Litter																					
Function associated to gls	NSC	NSC		NSC	NSC		spherical	spherical		linear	linear		linear	linear		linear	linear		spherical	spherical	
(Intercept)	598.00	1.65E-13		12.90	6.8E-07		0.11	0.0015		0.05	0.0513		0.39	0.0011		0.00	0.0034		0.38	0.0051	
<i>Vaccinium martillos</i> mature	-1.61	0.6230		-0.28	0.7510		0.09	0.0163	*	0.07	0.0390	*	0.28	0.0254	*	0.00	0.0445	*	0.34	0.0341	*
Stem																					
Function associated to gls	NSC	NSC		NSC	NSC		spherical	spherical		spherical	spherical		spherical	spherical		spherical	spherical		spherical	spherical	
(Intercept)	122.00	0.0014		1.45	0.0015		0.11	0.0005		0.12	0.0023		0.42	0.0020		0.03	0.0602		0.72	0.0051	
<i>Vaccinium martillos</i> mature	140.00	0.0040	**	1.74	0.0033	**	0.12	0.0021	**	0.13	0.0088	**	0.35	0.0235	*	0.05	0.0171	*	0.73	0.0220	*
Soil																					
Function associated to gls	NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC	
(Intercept)	2571.35	0.1830		143.39	0.2140		3.83	0.1332		28.16	0.0534		332.89	0.0149		1177.77	0.0120		42.91	0.0018	
<i>Vaccinium martillos</i> mature	2739.94	0.3000		174.33	0.2770		6.58	0.0798	.	21.59	0.2413		72.51	0.6214		268.78	0.5870		12.72	0.3086	

Supplementary table 5 (ST5) GLS Models South face																																		
South Face site																																		
Leaves																																		
Function associated to gls	%C			d ¹⁵ N			%N			NP			%P			CN			CP			%K			%Fe			%Ca			%Mg			
	Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value					
	exponential	exponential		gaussian	gaussian		gaussian	gaussian		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		spherical	spherical		gaussian	gaussian		gaussian	gaussian		spherical	spherical		
(Intercept)	44.90	0.00000		-2.68	0.00021		2.00	0.00000		15.70	0.00000		0.13	0.00000		23.20	0.00000		354.00	0.00000		1.59	0.00000		0.01	0.00266		0.40	0.0007		0.10	0.0000		
Southern grassland young	0.18	0.54400		-1.28	0.11419		-0.51	0.00241	**	-1.85	0.20700		-0.02	0.17400		7.65	0.05160		70.60	0.14000		-0.53	0.00008	***	-0.00	0.46615		-0.04	0.7890		-0.01	0.7770		
Arctostaphylos uva-ursi young	6.54	0.00000	***	0.83	0.32543		-0.85	0.00001	***	-5.98	0.00032	***	-0.02	0.25500		24.90	0.00000	***	106.00	0.03160	*	-1.14	0.00000	***	-0.01	0.20146		0.23	0.1010		0.02	0.2830		
Arctostaphylos uva-ursi mature	7.19	0.00000	***	-0.12	0.89514		-1.00	0.00000	***	-4.57	0.00378	**	-0.04	0.01130	*	29.30	0.00000	***	227.00	0.00005	***	-1.14	0.00000	***	-0.00	0.47776		0.26	0.0796	*	0.05	0.0160	*	
Juniperus communis young	5.23	0.00000	***	-0.84	0.32291		-0.63	0.00055	***	-3.81	0.01320	*	-0.01	0.38800		13.90	0.00103	**	85.10	0.07850	*	-1.15	0.00000	***	0.00	0.50548		0.72	0.0000	***	0.03	0.2350		
Juniperus communis mature	5.44	0.00000	***	-0.67	0.45061		-0.63	0.00138	**	-4.47	0.00443	**	-0.00	0.75000		14.60	0.00067	***	74.30	0.12200		-1.00	0.00000	***	-0.00	0.61117		0.74	0.0000	***	0.01	0.5880		
Juniperus sabina young	5.66	0.00000	***	-1.71	0.03753	*	-0.56	0.00088	***	-3.95	0.01060	*	-0.00	0.94300		11.20	0.00611	**	51.00	0.28200		-0.99	0.00000	***	-0.00	0.94945		0.78	0.0000	***	0.07	0.0017	**	
Juniperus sabina mature	6.93	0.00000	***	-0.92	0.29813		-0.54	0.00310	**	-4.61	0.00350	**	0.00	0.87300		12.70	0.00231	**	42.60	0.36700		-1.03	0.00000	***	-0.00	0.72156		0.93	0.0000	***	0.10	0.0001	***	
Litter																																		
Function associated to gls	NSC	NSC		NSC	NSC		linear	linear		NSC	NSC		linear	linear		NSC	NSC		NSC	NSC		gaussian	gaussian		linear	linear		spherical	spherical		spherical	spherical		
(Intercept)	44.40	0.0000		-3.75	0.0000		1.16	0.0000		14.30	0.0000		0.08	0.0000		41.44	0.0004		601.00	0.0007		0.18	0.0000		0.05	0.0001		0.72	0.0001		0.08	0.0000		
Southern grassland young	3.87	0.0634	.	-1.14	0.1700		-0.40	0.0187	*	3.33	0.0210	*	-0.04	0.0099	**	22.54	0.1308		534.00	0.0215	*	0.02	0.6150		0.04	0.0093	**	-0.26	0.2250		-0.02	0.4670		
Arctostaphylos uva-ursi young	6.92	0.0020	**	1.71	0.0429	*	-0.59	0.0011	**	-5.27	0.0007	***	-0.02	0.1670		61.13	0.0003	***	309.00	0.1680		0.12	0.0153	*	-0.04	0.0108	*	0.09	0.6730		0.05	0.0489	*	
Arctostaphylos uva-ursi mature	7.58	0.0009	***	0.95	0.2500		-0.58	0.0013	**	-2.06	0.1410		-0.03	0.0254	*	59.90	0.0017	**	551.00	0.0182	*	0.01	0.8350		-0.04	0.0140	*	0.21	0.3290		0.09	0.0005	***	
Juniperus communis young	6.28	0.0043	**	0.15	0.8540		-0.30	0.0685	.	1.07	0.4350		-0.03	0.0886	.	23.00	0.1234		425.00	0.0624	.	-0.02	0.6350		-0.03	0.0669	.	0.64	0.0055	**	0.03	0.1770		
Juniperus communis mature	6.56	0.0031	**	0.33	0.6850		-0.60	0.0009	***	0.16	0.9050		-0.04	0.0056	**	49.57	0.0021	**	718.00	0.0030	**	0.02	0.6640		-0.03	0.0367	*	1.35	0.0000	***	0.03	0.1980		
Juniperus sabina young	6.35	0.0039	**	-1.13	0.1700		-0.25	0.1280		-1.31	0.3420		-0.01	0.3840		15.28	0.2993		144.00	0.5140		0.14	0.0069	**	-0.01	0.3550		1.17	0.0000	***	0.09	0.0006	***	
Juniperus sabina mature	7.63	0.0008	***	0.68	0.4050		0.15	0.3480		-2.50	0.0761	.	0.03	0.0724	.	-1.27	0.9304		-130.00	0.5550		0.12	0.0211	*	-0.03	0.0451	*	0.72	0.0021	**	0.12	0.0000	***	
Soil																																		
Function associated to gls	NSC	NSC		NSC	NSC		gaussian	gaussian					linear	linear								spherical	spherical					rational	rational		gaussian	gaussian		
(Intercept)	10.73	0.0004		3.92	0.0000		0.93	0.0000		8.80	0.0000		0.11	0.0000		11.50	0.0000		101.17	0.0033		1.50	0.0000			3.41	0.0001		0.56	0.0000		0.11	0.0023	
Southern grassland young	-2.57	0.4950		-3.10	0.0023	**	-0.25	0.0736	.	-2.61	0.1460		-0.00	0.7330		1.72	0.4720		-18.99	0.6778		-0.27	0.1300			2.28	0.0398	*	-0.34	0.0000	***	-0.10	0.0310	*
Arctostaphylos uva-ursi young	-1.13	0.7822		-1.62	0.0772	.	-0.47	0.0035	**	-3.09	0.0897	.	-0.02	0.2560		4.75	0.0590	*	10.60	0.8163		-0.45	0.0172	*		2.05	0.0616	.	-0.37	0.0000	***	-0.09	0.0329	*
Arctostaphylos uva-ursi mature	-0.46	0.8933		-2.86	0.0023	**	-0.36	0.0133	*	0.25	0.8790		-0.04	0.0037	**	5.25	0.0275	*	57.14	0.1880		-0.32	0.0613	.		0.80	0.4069		-0.38	0.0000	***	-0.10	0.0601	.
Juniperus communis young	-5.54	0.2026		-1.48	0.1470		-0.53	0.0032	**	-4.47	0.0347	*	0.01	0.6780		2.35	0.3880		-44.12	0.3988		0.10	0.6190			2.52	0.0445	*	-0.31	0.0000	***	-0.09	0.0355	*
Juniperus communis mature	-4.49	0.2058		-2.24	0.0123	*	-0.53	0.0009	***	-4.28	0.0157	*	-0.02	0.2040		3.81	0.0972	.	-31.68	0.4569		-0.16	0.3170			1.90	0.0611		-0.32	0.0000	***	-0.10	0.0561	*
Juniperus sabina young	-3.65	0.3947		-2.56	0.0180	*	-0.35	0.0264	*	-3.94	0.0589	*	-0.00	0.8120		2.54	0.3530		-32.70	0.5296		-0.26	0.2000			2.26	0.0680	.	-0.28	0.0000	***	-0.09	0.0316	*
Juniperus sabina mature	-4.51	0.2949		-2.83	0.0100	*	-0.42	0.0169	*	0.96	0.6270		-0.05	0.0039	**	0.68	0.8010		17.78	0.7313		-0.05	0.7880			1.40	0.2439		-0.40	0.0000	***	-0.10	0.0640	.
Leaves																																		
Function associated to gls	C (g m ⁻²)			N (g m ⁻²)			Mg (g m ⁻²)			P (g m ⁻²)			K (g m ⁻²)			Fe (g m ⁻²)			Ca (g m ⁻²)															
	Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value														
	NSC	NSC		NSC	NSC		gaussian	gaussian		gaussian	gaussian		NSC	NSC		linear	linear		NSC	NSC														
(Intercept)	191.00	0.04330		8.24	0.00263		0.45	0.09090		0.56	0.00685		6.71	0.00001		0.05	0.25052		1.76	0.47971														
Southern grassland young	34.40	0.78800		-0.82	0.81553		-0.04	0.91100		0.09	0.70925		-1.08	0.52700		0.00	0.96302		-0.00	0.99943														
Arctostaphylos uva-ursi young	127.00	0.32700		-1.42	0.68616		0.24	0.49700		0.15	0.55248		-3.93	0.02820	*	-0.02	0.75381		2.01	0.56570														
Arctostaphylos uva-ursi mature	239.00	0.07090	**	0.14	0.96842		0.83	0.03380	*	0.19	0.48672		-2.98	0.08910	.	0.02	0.76987		3.58	0.31117														
Juniperus communis young	487.00	0.00078	***	10.36	0.00647	**	1.25	0.00154	**	1.02	0.00065	***	-0.76	0.65500		0.16	0.01480	*	12.52	0.00136	**													
Juniperus communis mature	526.00	0.00036	***	10.22	0.00713	**	1.00	0.01360	*	1.04	0.00076	***	0.86	0.61500		0.08	0.18095		15.00	0.00022	***													
Juniperus sabina young	322.00	0.01770	*	6.97	0.05619	*	1.35	0.00035	***	0.72	0.00664	**	-0.68	0.69200		0.06	0.29952		11.08	0.00380	**													
Juniperus sabina mature	375.00	0.00677	**	7.41	0.04332	*	1.76	0.00006	***	0.86	0.00393	**	-0.68	0.68000		0.06	0.33662		13.11	0.00089	***													
Litter																																		
Function associated to gls	NSC	NSC		NSC	NSC		linear	linear		gaussian	gaussian		gaussian	gaussian		linear	linear		NSC	NSC														
(Intercept)	534.00	0.0000		14.00	0.0000		0.38	0.0143		0.40	0.0048		0.84	0.1187		0.22	0.0296		3.25	0.1380														
Southern grassland young	46.60	0.0634	.	-4.79	0.0186	*	-0.03	0.8810		-0.11	0.4875		0.27	0.6822		0.33	0.0242	*	-0.98	0.7461														
Arctostaphylos uva-ursi young	83.20	0.0020	**	-7.07	0.0011	**	0.20	0.3400		-0.09	0.6118		0.47	0.5089		-0.19	0.1843		-0.05	0.9863														
Arctostaphylos uva-ursi mature	91.10	0.0009	***	-6.93	0.0013	**	0.15	0.4720		-0.24	0.1946		-0.24	0.7464		-0.19	0.1770		-0.46	0.8782											</			

	Supplementary table 6 (ST6) GLS Models South face																											
	Arctostaphylos uva-ursi																											
	Leaves																											
	%C		delta ¹⁵ N		%N		NP		%P		CN		CP		%K		%Fe		%Ca		%Mg							
Function associated to gls	Value	p value	Value	p value	Value	p value	Value	p value	Value	p value	Value	p value	Value	p value	Value	p value	Value	p value	Value	p value	Value	p value	Value	p value	Value	p value	Value	p value
(Intercept)	51.50	0.0000	-1.9597	0.0576	1.0900	0.0000	9.6900	0.0000	0.1120	0.0000	48.20	0.0000	459.00	0.0000	0.45	0.0003	0.01	0.0144	0.61	0.0004	0.13	0.0004						
Arctostaphylos uva-ursi mature	0.66	0.1340	-0.8345	0.5070	-0.0828	0.5050	1.4200	0.1500	-0.0220	0.0177 *	4.37	0.4230	121.00	0.0140 *	-0.01	0.9476	0.00	0.8116	0.05	0.7095	0.03	0.2519						
	Litter																											
Function associated to gls	NSC	NSC	NSC	NSC	linear	linear	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	linear	linear	linear	linear	NSC	NSC	spherical	spherical						
(Intercept)	51.30	0.0000	-2.0350	0.0140	0.5748	0.0012	9.0800	0.0000	0.0632	0.0011	103.00	0.0009	910.00	0.0023	0.29	0.0003	0.01	0.0102	0.81	0.0041	0.13	0.0005						
Arctostaphylos uva-ursi mature	0.66	0.2080	-0.7680	0.3960	0.0115	0.9374	3.2100	0.0396 *	-0.0137	0.4029	-10.20	0.6820	242.00	0.3770	-0.10	0.1236	0.00	0.6563	0.12	0.6535	0.04	0.1561						
	Stems																											
Function associated to gls	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	exponential	exponential	rational	rational	gaussian	gaussian	linear	linear						
(Intercept)	47.50	0.0000	-2.6670	0.0034	0.4140	0.0000	10.2000	0.0000	0.0405	0.0000	115.00	0.0000	1170.00	0.0000	0.24	0.0001	0.02	0.0251	0.38	0.0005	0.05	0.0007						
Arctostaphylos uva-ursi mature	0.43	0.4150	-0.8075	0.3549	0.0350	0.2290	2.1300	0.1410	-0.0030	0.4480	-7.59	0.2490	148.00	0.3230	-0.09	0.1010	-0.01	0.6538	-0.06	0.6413	0.01	0.4324						
	Soil																											
Function associated to gls	NSC	NSC	rational	rational	gaussian	gaussian	NSC	NSC	gaussian	gaussian	NSC	NSC	NSC	NSC	gaussian	gaussian	NSC	NSC	linear	linear	linear	linear						
(Intercept)	8.51	0.0697	2.5759	0.0596	0.4655	0.0176	6.2535	0.0072	0.0801	0.0006	15.70	0.0006	111.24	0.0525	1.21	0.0002	5.20	0.0003	0.19	0.0001	0.01	0.0009						
Arctostaphylos uva-ursi mature	1.75	0.7593	-1.0437	0.5999	0.1434	0.6147	2.7903	0.2551	-0.0177	0.4841	1.08	0.7620	47.08	0.4976	-0.05	0.8345	-0.99	0.3565	-0.01	0.7211	0.00	0.3738						

	Leaves													
	C (gm ⁻²)		N (gm ⁻²)		Mg (gm ⁻²)		P (gm ⁻²)		K (gm ⁻²)		Fe (gm ⁻²)		Ca (gm ⁻²)	
	Value	p value	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>	Value	<i>p value</i>
Function associated to gls	NSC	NSC	NSC	NSC	linear	linear	linear	linear	NSC	NSC	linear	linear	NSC	NSC
(Intercept)	318.00	0.0018	6.8223	0.0036	0.7772	0.0078	0.6770	0.0015	2.7793	0.0085	0.03	0.0170	3.77	0.0044
<i>Arctostaphylos uva-ursi</i> mature	113.00	0.2310	1.5600	0.4817	0.5061	0.1216	0.0551	0.7955	0.9485	0.3893	0.03	0.0614	1.56	0.2411
	Litter													
Function associated to gls	NSC	NSC	NSC	NSC	linear	linear	linear	linear	NSC	NSC	linear	linear	NSC	NSC
(Intercept)	617.00	0.0000	6.9130	0.0012	0.5805	0.0021	0.2973	0.0069	1.3860	0.0075	0.04	0.0000	3.20	0.0033
<i>Arctostaphylos uva-ursi</i> mature	7.98	0.2080	0.1385	0.9373	-0.0511	0.7595	-0.1420	0.2224	-0.7870	0.1629	-0.00	0.4430	-0.41	0.6834
	Stem													
Function associated to gls	NSC	NSC	NSC	NSC	spherical	spherical	linear	linear	NSC	NSC	exponential	exponential	exponential	exponential
(Intercept)	278.78	0.0158	2.3865	0.0137	0.2353	0.0821	0.2199	0.0879	1.2705	0.0129	0.06	0.0004	1.86	0.0290
<i>Arctostaphylos uva-ursi</i> mature	176.16	0.1872	1.8590	0.1067	0.2861	0.1647	0.0707	0.6550	0.2085	0.6990	0.04	0.0373 *	1.13	0.3540
	Soil													
Function associated to gls	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC
(Intercept)	9560.0	0.0423	519	0.0079	9.78	0.0011	85.8	0.0001	1330.0	0.0006	5660.00	0.0008	205.00	0.0002
<i>Arctostaphylos uva-ursi</i> mature	-3680.0	0.5100	-171	0.3970	-2.26	0.3777	-46.0	0.0116 *	-510.0	0.1290	-2810.00	0.0708	-81.80	0.0625

	Juniperus communis																																
	Leaves																																
	%C		delta ¹⁵ N		%N		NP		%P		CN		CP		%K		%Fe		%Ca		%Mg												
	Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value				
Function associated to gls	linear	linear		NSC	NSC		linear	linear		NSC	NSC		spherical	spherical		NSC	NSC		spherical	spherical		spherical	spherical		linear	linear		spherical	spherical				
(Intercept)	50.10	0.0000		-3.5358	0.0006		1.3700	0.0000		11.9000	0.0000		0.1165	0.0002		37.20	0.0000		439.00	0.0001		0.43	0.0008		0.01	0.0403		1.08	0.0002	0.13	0.0002		
Juniperus communis mature	0.23	0.5420		0.1870	0.8167		-0.0045	0.9780		-0.6630	0.5450		0.0082	0.7143		0.64	0.8840		-10.90	0.8690		0.16	0.1587		-0.01	0.4995		0.05	0.7814	-0.01	0.5626		
	Litter																																
Function associated to gls	linear	linear		NSC	NSC		gaussian	gaussian		NSC	NSC		spherical	spherical		NSC	NSC		NSC	NSC		spherical	spherical		spherical	spherical		linear	linear		spherical	spherical	
(Intercept)	50.70	0.0000		-3.5993	0.0009		0.8614	0.0002		15.4000	0.0000		0.0583	0.0005		64.40	0.0005		1030.00	0.0030		0.18	0.0026		0.02	0.0000		1.36	0.0005	0.11	0.0001		
Juniperus communis mature	0.27	0.4400		0.1798	0.8379		-0.3193	0.1687		-0.9090	0.5950		-0.0183	0.1831		26.60	0.0958	.	294.00	0.3670		0.02	0.7409		-0.00	0.1470		0.71	0.0459 *	-0.00	0.9300		
	Stems																																
Function associated to gls	linear	linear		NSC	NSC		spherical	spherical		NSC	NSC		linear	linear		NSC	NSC		NSC	NSC		spherical	spherical		linear	linear		spherical	spherical	spherical	spherical	spherical	
(Intercept)	47.00	0.0000		-2.7963	0.0055		0.4470	0.0001		10.1110	0.0002		0.0440	0.0022		109.00	0.0001		1090.00	0.0002		0.17	0.0011		0.04	0.0555		1.47	0.0000	0.05	0.0018		
Juniperus communis mature	0.25	0.7000		-0.5878	0.5528		0.0210	0.7730		-0.3955	0.8340		0.0093	0.4788		-3.33	0.8410		-91.60	0.6360		-0.01	0.8732		-0.01	0.6992		0.60	0.0164 *	-0.00	0.8756		
	Soil																																
Function associated to gls	NSC	NSC		NSC	NSC		spherical	spherical		NSC	NSC		linear	linear		NSC	NSC		NSC	NSC		linear	linear		NSC	NSC		linear	linear		linear	linear	
(Intercept)	7.7928	0.0046		1.5150	0.1180		0.4940	0.0002		6.2465	0.0010		0.0945	0.0021		15.10	0.0001		96.91	0.0069		1.43	0.0000		5.11	0.0006		0.31	0.0008	0.01	0.0002		

Juniperus communis mature	-1.55	0.5590		0.1710	0.8890		-0.0898	0.3218		-1.7253	0.2917		-0.0036	0.9240		0.24	0.9250		-27.42	0.4506		-0.09	0.5890		0.19	0.8677		-0.07	0.3551		-0.00	0.3407	
	Leaves																																
	C (gm ⁻²)			N (gm ⁻²)			Mg (gm ⁻²)			P (gm ⁻²)			K (gm ⁻²)			Fe (gm ⁻²)			Ca (gm ⁻²)														
	Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value													
Function associated to gls	NSC	NSC		NSC	NSC		NSC	NSC		spherical	spherical		NSC	NSC		linear	linear		NSC	NSC													
(Intercept)	678.00	0.0030		18.6048	0.0023		1.7433	0.0010		1.5470	0.0008		5.9480	0.0040		0.20	0.0393		14.28	0.0098													
Juniperus communis mature	38.70	0.8530		-0.1425	0.9791		-0.2838	0.5146		0.0610	0.8678		1.6218	0.4164		-0.08	0.5299		2.48	0.6633													
	Litter																																
Function associated to gls	NSC	NSC		NSC	NSC		linear	linear		linear	linear		spherical	spherical		spherical	spherical		NSC	NSC													
(Intercept)	610.00	0.0000		10.4000	0.0001		0.2618	0.0097		0.1390	0.0092		0.4575	0.0723		0.05	0.0132		3.01	0.0504													
Juniperus communis mature	3.30	0.4400		-3.5700	0.0660		0.1185	0.2776		0.0003	0.9963		0.3227	0.3190		0.01	0.5285		4.27	0.0503	*												
	Stem																																
Function associated to gls	NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		linear	linear		NSC	NSC													
(Intercept)	490.65	0.2490		4.5960	0.3220		0.5410	0.5080		0.4490	0.5980		1.7440	0.4660		0.37	0.1730		15.19	0.4280													
Juniperus communis mature	912.43	0.1440		9.9660	0.1490		1.2580	0.2910		1.4790	0.2430		4.0300	0.2510		0.48	0.2450		46.16	0.1180													
	Soil																																
Function associated to gls	NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC													
(Intercept)	7260	0.0024		470	0.0001		11.80	0.0000		98.20	0.0088		1450	0.0008		5330	0.0061		293	0.0002													
Juniperus communis mature	-2290	0.3040		-154	0.0876	.	-4.16	0.0358	*	-28.92	0.4570		-417	0.2540		-1290	0.5050		-113	0.0648	.												

	Juniperus sabina																																
	Leaves																																
	%C			delta ¹⁵ N			%N			NP			%P			CN			CP			%K			%Fe			%Ca			%Mg		
	Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value		Value	p value				
Function associated to gls	spherical	spherical		NSC	NSC		spherical	spherical		NSC	NSC		gaussian	gaussian		NSC	NSC		NSC	NSC		spherical	spherical		rational	rational		spherical	spherical		spherical	spherical	
(Intercept)	50.70	0.0000		-5.03	0.0001		1.48	0.0000		11.70	0.0000		0.13	0.0000		34.50	0.0000		405.00	0.0000		0.59	0.0000		0.01	0.0002		1.24	0.0000		0.18	0.0000	
Juniperus sabina mature	1.19	0.0029	**	1.43	0.1204		-0.01	0.9480		-0.66	0.3900		0.00	0.8050		1.50	0.5160		-8.38	0.8100		-0.03	0.3260		-0.00	0.7329		0.08	0.6130		0.02	0.3073	
	Litter																																
Function associated to gls	linear	linear		NSC	NSC		gaussian	gaussian		NSC	NSC		linear	linear		NSC	NSC		NSC	NSC		linear	linear		linear	linear		linear	linear		linear	linear	
(Intercept)	50.70	0.0000		-4.88	0.0002		0.91	0.0000		13.00	0.0000		0.07	0.0001		56.70	0.0000		745.00	0.0000		0.32	0.0000		0.04	0.0047		1.89	0.0000		0.17	0.0002	
Juniperus sabina mature	1.34	0.0045	**	1.81	0.0843	.	0.42	0.0318	*	-1.19	0.1980		0.04	0.0232	*	-16.60	0.0207	*	-274.00	0.0185	*	-0.02	0.6530		-0.02	0.2953		-0.45	0.0316	*	0.03	0.4524	
	Stems																																
Function associated to gls	spherical	spherical		NSC	NSC		linear	linear					spherical	spherical		NSC	NSC		NSC	NSC		linear	linear		spherical	spherical		spherical	spherical		spherical	spherical	
(Intercept)	46.60	0.0000		-4.30	0.0001		0.41	0.0000		9.31	0.0001		0.05	0.0001		115.00	0.0000		1050.00	0.0000		0.20	0.0001		0.02	0.0000		1.99	0.0000		0.06	0.0002	
Juniperus sabina mature	-0.29	0.3250		1.10	0.1370		0.13	0.0148		-0.03	0.9850		0.01	0.1763		-28.20	0.0133	*	-243.00	0.1120		0.01	0.6730		0.00	0.1440		0.47	0.1290		0.03	0.0398	*
	Soil																																
Function associated to gls	NSC	NSC		NSC	NSC		linear	linear		NSC	NSC		linear	linear		NSC	NSC		NSC	NSC		linear	linear		NSC	NSC		gaussian	gaussian		gaussian	gaussian	
(Intercept)	5.60	0.0016		2.12	0.0044		0.42	0.0002		5.04	0.0022		0.09	0.0002		13.00	0.0001		65.49	0.0022		1.47	0.0000		5.32	0.0000		0.23	0.0005		0.01	0.0009	
Juniperus sabina mature	0.21	0.8898		-1.25	0.1145		0.03	0.7384		2.47	0.1277		-0.02	0.1771		-0.21	0.9160		28.16	0.1712		0.07	0.7330		0.04	0.9540		-0.07	0.3329		-0.00	0.9085	

	Leaves																				
	C (gm ⁻²)			N (gm ⁻²)			Mg (gm ⁻²)			P (gm ⁻²)			K (gm ⁻²)			Fe (gm ⁻²)			Ca (gm ⁻²)		
	Value	<i>p value</i>		Value	<i>p value</i>		Value	<i>p value</i>		Value	<i>p value</i>		Value	<i>p value</i>		Value	<i>p value</i>		Value	<i>p value</i>	
Function associated to gls	NSC	NSC		NSC	NSC		NSC	NSC		gaussian	gaussian		NSC	NSC		spherical	spherical		NSC	NSC	
(Intercept)	513.44	0.0006		15.20	0.0006		1.77	0.0016		1.30	0.0008		6.04	0.0005		0.11	0.0019		12.83	0.0043	
<i>Juniperus sabina</i> mature	52.91	0.6495		0.44	0.8980		0.45	0.3654		0.12	0.7025		-0.00	0.9978		-0.00	0.9605		2.03	0.6350	
	Litter																				
	NSC	NSC		NSC	NSC		spherical	spherical		spherical	spherical		NSC	NSC		spherical	spherical		NSC	NSC	
Function associated to gls	NSC	NSC		NSC	NSC		spherical	spherical		spherical	spherical		NSC	NSC		spherical	spherical		NSC	NSC	
(Intercept)	610.00	0.0000		11.00	0.0000		0.83	0.0108		0.46	0.0566		1.98	0.0589		0.20	0.0089		11.02	0.0301	
<i>Juniperus sabina</i> mature	15.40	0.0035	**	4.80	0.0165	*	1.06	0.0161	*	0.58	0.0773	.	0.95	0.4586		-0.02	0.8393		2.63	0.6505	
	Stem																				
	NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		linear	linear		NSC	NSC	
Function associated to gls	NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		linear	linear		NSC	NSC	
(Intercept)	468.00	0.1370		3.97	0.3117		0.51	0.3455		0.51	0.2521		1.84	0.1540		0.19	0.1199		20.41	0.3001	
<i>Juniperus sabina</i> mature	1040.00	0.0359	*	13.86	0.0343	*	2.13	0.0224	*	1.40	0.0494	*	4.78	0.0240	*	0.55	0.0107	*	62.25	0.0501	*
	Soil																				
	NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC	
Function associated to gls	NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC		NSC	NSC	
(Intercept)	5500	0.0089		414.91	0.0042		10.59	0.0056		80.9	0.0009		1350.0	0.0001		5120	0.0008		233.24	0.0050	
<i>Juniperus sabina</i> mature	-302	0.8870		-12.74	0.9255		-1.76	0.6369		-24.7	0.2360		12.2	0.9580		-385	0.7540		-86.87	0.2995	