

## Supplementary material

Appendix 1. Summary of the second-order polynomial regression models for a hump-shaped relationship between richness and elevation. For each model the null deviance, residual deviance, residual degrees of freedom, and significance of the model fit under an F-test are provided. The GLM was calculated using a quasipoisson distribution and a log-link function. Diagnostic plots of the residuals were satisfactory.

Mountain range	Null deviance	Residual deviance	Residual DF	P
Uinta Mountains	47.79	4.05	19	<0.001
Wasatch Plateau	29.74	7.77	13	<0.001
Aquarius Plateau	12.98	1.19	15	<0.001
Markagunt Plateau	42.35	3.07	15	<0.001

Appendix 2. Spatial autocorrelation analysis. I assessed spatial autocorrelation in the pattern of species richness along each elevation gradient using Moran's I. Analyses were conducted in ArcGIS v.9.2 with spatial relationships based on inverse distance and distance calculated using the Euclidean method. For each data set I calculated the mean center for sites within each 100 m bin of elevation. Spatial autocorrelation analyses were computed using these mean center coordinates and the associated richness value per bin. None of the four gradients display significant spatial autocorrelation ( $p \leq 0.05$ ).

Data set	Moran's I	Z score
Uinta Mountains	-0.05	0.08
Wasatch Plateau	-0.05	0.72
Aquarius Plateau	-0.05	0.11
Markagunt Plateau	0.17	0.96

Appendix 3. Individual regression analyses of richness against each variable, with the exception of the mid-domain effect which is presented in Table 2. Coefficients of determination ( $r^2$ ) are provided for all significant results. Significance is indicated as follows: \*\*\*  $p < 0.001$ , \*\*  $p < 0.01$ , \*  $p < 0.05$ , and ns  $p > 0.05$ . For each gradient, precipitation and temperature are based on a quadratic model and both productivity and habitat heterogeneity on a linear model. For area, the form of the relationship varied among gradients and is linear for the Uinta Mountains and Markagunt Plateau but quadratic for the Wasatch Plateau and Aquarius Plateau.

Mountain range	Precipitation			Maximum temperature			Minimum temperature			Productivity			Habitat heterogeneity		Area
	Ann	Jan	Jul	Ann	Jan	Jul	Ann	Jan	Jul	EVI	NDVI	H'	E	Log (area)	
Uinta Mountains	0.546**	0.522**	0.569**	0.742***	0.336*	0.779***	0.616***	ns	0.626***	0.451**	0.466**	0.676***	0.577***	0.826***	
Wasatch Plateau	0.847***	0.800***	0.699***	0.826***	0.664***	0.864***	0.628**	ns	0.677**	ns	ns	0.357*	0.301*	0.769**	
Aquarius Plateau	0.645**	0.398**	0.822***	0.818***	0.861***	0.800***	0.808***	0.711***	0.812***	0.383*	0.471**	0.316*	0.240*	0.821***	
Markagunt Plateau	0.781***	0.523**	0.500**	0.365*	ns	0.448*	ns	ns	ns	ns	ns	ns	ns	ns	

Appendix 4. Summary statistics for multiple regressions using July precipitation. Variables are July precipitation (PPT), July maximum temperature (Tmax), enhanced vegetation index (EVI), habitat heterogeneity as measured by the Shannon diversity index (H'), the mid-domain effect (MDE), and log-transformed surface area (AREA). For each mountain range, PPT and Tmax are quadratic functions and EVI and H' are linear. The form of the relationship for MDE and Area is not consistent across gradients. MDE is linear for the Uinta Mountains (UI), Aquarius Plateau (AQ) and Markagunt Plateau (MA), and quadratic for the Wasatch Plateau (WA). Area is linear for UI and MA, and quadratic for WA and AQ. N: number of 100 m bins in each analyses. N may not reflect the total number of bins within a gradient because data could only be extracted for bins which contained sites and excluding EVI outliers may have resulted in the loss of a bin(s) for analysis. R<sup>2</sup>: coefficient of determination, RSS: model residual sum of squares, K: number of model parameters, AIC<sub>c</sub>: model AIC<sub>c</sub> score, D<sub>i</sub>: model AIC<sub>c</sub> difference, W<sub>i</sub>: model Akaike weight, reported using standard notation up to four decimal places after which scientation notation is reported.

Mtn	Model #	Variables	R <sup>2</sup>	K	RSS	N	AIC <sub>c</sub>	D <sub>i</sub>	W <sub>i</sub>
UI	37	Tmax, AREA	0.964	5	18.752	19	14.366	0.000	0.5646
	41	Tmax, MDE, AREA	0.964	6	18.363	19	18.352	3.986	0.0769
	38	PPT, AREA	0.961	5	23.384	19	18.560	4.194	0.0693
	46	Tmax, EVI, AREA	0.964	6	18.685	19	18.682	4.317	0.0652
	42	PPT, MDE, AREA	0.966	6	18.709	19	18.707	4.341	0.0644
	44	Tmax, H', AREA	0.965	6	18.752	19	18.750	4.385	0.0630
	54	PPT, EVI, MDE, AREA	0.973	7	15.805	19	20.684	6.318	0.0240
	48	PPT, Tmax, AREA	0.971	7	16.657	19	21.681	7.316	0.0146
	45	PPT, H', AREA	0.962	6	22.203	19	21.960	7.594	0.0127
	47	PPT, EVI, AREA	0.966	6	22.455	19	22.174	7.809	0.0114
	51	PPT, H', MDE, AREA	0.969	7	17.520	19	22.641	8.275	0.0090
	50	Tmax, H', MDE, AREA	0.965	7	18.002	19	23.157	8.791	0.0070
	53	Tmax, EVI, MDE, AREA	0.964	7	18.363	19	23.534	9.168	0.0058
	55	Tmax, EVI, H', AREA	0.965	7	18.680	19	23.859	9.493	0.0049
	56	PPT, EVI, H', AREA	0.967	7	20.482	19	25.609	11.243	0.0020
	63	PPT, EVI, H', MDE, AREA	0.975	8	14.797	19	25.650	11.284	0.0020
	52	PPT, Tmax, MDE, AREA	0.972	8	15.606	19	26.661	12.295	0.0012
	57	PPT, Tmax, EVI, AREA	0.971	8	16.604	19	27.839	13.473	0.0007
	58	PPT, Tmax, H', AREA	0.972	8	16.639	19	27.879	13.513	0.0007
	59	Tmax, EVI, H', MDE, AREA	0.965	8	18.002	19	29.375	15.009	0.0003
	62	PPT, Tmax, H', MDE, AREA	0.976	9	13.681	19	31.760	17.394	9.43E-05
	34	MDE, AREA	0.864	4	60.082	19	32.731	18.366	5.80E-05
	61	PPT, Tmax, EVI, MDE, AREA	0.973	9	15.259	19	33.834	19.468	3.34E-05
	60	PPT, Tmax, EVI, H', AREA	0.972	9	16.473	19	35.288	20.923	1.62E-05
	39	H', MDE, AREA	0.865	5	59.181	19	36.202	21.837	1.02E-05
	40	EVI, MDE, AREA	0.864	5	59.532	19	36.315	21.949	9.67E-06
	17	Tmax, EVI	0.862	5	63.348	19	37.495	23.130	5.36E-06
	49	EVI, H', MDE, AREA	0.865	6	59.136	19	40.573	26.207	1.15E-06
	27	Tmax, EVI, MDE	0.870	6	59.671	19	40.744	26.378	1.06E-06
	16	Tmax, EVI, H'	0.869	6	60.119	19	40.886	26.520	9.84E-07
	7	PPT, Tmax, EVI, H', MDE, AREA	0.976	10	13.639	19	41.201	26.836	8.40E-07
	21	EVI, MDE	0.793	4	94.924	19	41.421	27.056	7.53E-07
	22	Tmax, MDE	0.829	5	78.423	19	41.551	27.186	7.06E-07
	18	Tmax, H'	0.815	5	84.547	19	42.980	28.614	3.45E-07
	11	PPT, EVI, H'	0.850	6	68.472	19	43.358	28.992	2.86E-07
	14	PPT, EVI	0.808	5	87.853	19	43.709	29.343	2.40E-07
	15	PPT, H'	0.807	5	88.510	19	43.850	29.484	2.24E-07
	28	PPT, EVI, MDE	0.846	6	70.506	19	43.914	29.548	2.17E-07
	10	PPT, Tmax, EVI	0.881	7	54.380	19	44.161	29.796	1.91E-07
	12	PPT, Tmax, H'	0.881	7	54.456	19	44.188	29.822	1.89E-07

	20	H', MDE	0.757	4	111.263	19	44.439	30.073	1.67E-07
	13	PPT, Tmax	0.839	6	73.459	19	44.693	30.328	1.47E-07
	24	EVI, H', MDE	0.793	5	94.906	19	45.176	30.810	1.15E-07
	25	Tmax, H', MDE	0.832	6	76.708	19	45.516	31.150	9.72E-08
	29	Tmax, EVI, H', MDE	0.871	7	59.230	19	45.785	31.419	8.50E-08
	33	PPT, Tmax, MDE	0.870	7	59.687	19	45.931	31.565	7.90E-08
	2	Tmax	0.730	4	123.573	19	46.433	32.067	6.15E-08
	23	PPT, MDE	0.771	5	104.724	19	47.046	32.681	4.52E-08
	6	AREA	0.682	3	152.430	19	47.163	32.797	4.27E-08
	5	MDE	0.663	3	154.348	19	47.401	33.035	3.79E-08
	26	PPT, H', MDE	0.810	6	86.804	19	47.865	33.499	3.00E-08
	30	PPT, EVI, H', MDE	0.853	7	67.195	19	48.182	33.816	2.56E-08
	35	H', AREA	0.709	4	137.538	19	48.467	34.101	2.22E-08
	9	PPT, Tmax, EVI, H'	0.887	8	51.769	19	49.445	35.079	1.36E-08
	43	EVI, H', AREA	0.739	5	122.320	19	49.997	35.631	1.03E-08
	36	EVI, AREA	0.688	4	150.036	19	50.119	35.754	9.73E-09
	32	PPT, Tmax, EVI, MDE	0.883	8	53.652	19	50.124	35.758	9.71E-09
	31	PPT, Tmax, H', MDE	0.882	8	54.232	19	50.328	35.962	8.76E-09
	4	H'	0.599	3	183.421	19	50.680	36.314	7.35E-09
	19	EVI, H'	0.600	4	183.106	19	53.904	39.538	1.47E-09
	3	EVI	0.451	3	251.127	19	56.649	42.283	3.72E-10
	8	PPT, Tmax, EVI, H', MDE	0.887	9	51.769	19	57.045	42.679	3.05E-10
	1	PPT	0.468	4	243.326	19	59.306	44.941	9.84E-11
WA	34	MDE, AREA	0.945	6	19.285	16	24.321	0.000	0.3656
	22	Tmax, MDE	0.944	6	19.572	16	24.558	0.236	0.3248
	23	PPT, MDE	0.938	6	21.764	16	26.256	1.935	0.1389
	2	Tmax	0.864	4	47.439	16	29.026	4.705	0.0348
	27	Tmax, EVI, MDE	0.949	7	17.745	16	29.656	5.335	0.0254
	39	H', MDE, AREA	0.946	7	18.750	16	30.538	6.217	0.0163
	25	Tmax, H', MDE	0.946	7	18.985	16	30.737	6.416	0.0148
	40	EVI, MDE, AREA	0.945	7	19.136	16	30.864	6.543	0.0139
	42	PPT, MDE, AREA	0.967	8	11.382	16	31.123	6.801	0.0122
	21	EVI, MDE	0.881	5	41.694	16	31.324	7.003	0.0110
	28	PPT, EVI, MDE	0.942	7	20.358	16	31.854	7.533	0.0085
	38	PPT, AREA	0.910	6	31.478	16	32.161	7.839	0.0073
	17	Tmax, EVI	0.869	5	45.745	16	32.808	8.487	0.0052
	26	PPT, H', MDE	0.938	7	21.733	16	32.900	8.579	0.0050
	18	Tmax, H'	0.865	5	47.368	16	33.366	9.045	0.0040
	37	Tmax, AREA	0.902	6	34.152	16	33.465	9.144	0.0038
	33	PPT, Tmax, MDE	0.959	8	14.327	16	34.804	10.483	0.0019
	20	H', MDE	0.839	5	56.478	16	36.180	11.859	0.0010
	24	EVI, H', MDE	0.884	6	40.510	16	36.197	11.876	0.0010
	5	MDE	0.787	4	74.586	16	36.266	11.945	0.0009
	45	PPT, H', AREA	0.919	7	28.242	16	37.092	12.770	0.0006
	46	Tmax, EVI, AREA	0.919	7	28.499	16	37.236	12.915	0.0006
	16	Tmax, EVI, H'	0.870	6	45.492	16	38.052	13.731	0.0004
	29	Tmax, EVI, H', MDE	0.950	8	17.651	16	38.143	13.822	0.0004
	13	PPT, Tmax	0.866	6	47.045	16	38.590	14.268	0.0003
	41	Tmax, MDE, AREA	0.948	8	18.173	16	38.609	14.288	0.0003
	49	EVI, H', MDE, AREA	0.947	8	18.398	16	38.806	14.485	0.0003

47	PPT, EVI, AREA	0.910	7	31.437	16	38.806	14.485	0.0003
14	PPT, EVI	0.807	5	67.721	16	39.085	14.764	0.0002
44	Tmax, H', AREA	0.903	7	33.782	16	39.957	15.636	0.0001
30	PPT, EVI, H', MDE	0.943	8	20.108	16	40.228	15.907	0.0001
54	PPT, EVI, MDE, AREA	0.969	9	10.815	16	41.734	17.412	6.05E-05
1	PPT	0.699	4	105.406	16	41.800	17.479	5.85E-05
51	PPT, H', MDE, AREA	0.968	9	11.347	16	42.502	18.181	4.12E-05
48	PPT, Tmax, AREA	0.928	8	25.080	16	43.763	19.442	2.19E-05
10	PPT, Tmax, EVI	0.876	7	43.478	16	43.995	19.674	1.95E-05
11	PPT, EVI, H'	0.807	6	67.612	16	44.392	20.071	1.60E-05
32	PPT, Tmax, EVI, MDE	0.962	9	13.400	16	45.163	20.842	1.09E-05
12	PPT, Tmax, H'	0.866	7	46.861	16	45.194	20.872	1.07E-05
56	PPT, EVI, H', AREA	0.919	8	28.239	16	45.661	21.340	8.49E-06
55	Tmax, EVI, H', AREA	0.919	8	28.422	16	45.765	21.443	8.06E-06
15	PPT, H'	0.702	5	104.246	16	45.987	21.665	7.22E-06
31	PPT, Tmax, H', MDE	0.959	9	14.321	16	46.226	21.905	6.40E-06
6	AREA	0.591	4	143.145	16	46.697	22.376	5.06E-06
53	Tmax, EVI, MDE, AREA	0.951	9	17.270	16	49.222	24.901	1.43E-06
35	H', AREA	0.628	5	130.050	16	49.525	25.204	1.23E-06
50	Tmax, H', MDE, AREA	0.948	9	18.165	16	50.031	25.709	9.56E-07
4	H'	0.357	3	225.057	16	50.300	25.979	8.35E-07
36	EVI, AREA	0.601	5	139.822	16	50.685	26.363	6.89E-07
9	PPT, Tmax, EVI, H'	0.876	8	43.342	16	52.516	28.195	2.76E-07
19	EVI, H'	0.377	4	218.211	16	53.442	29.121	1.74E-07
57	PPT, Tmax, EVI, AREA	0.930	9	24.360	16	54.726	30.405	9.13E-08
43	EVI, H', AREA	0.631	6	129.040	16	54.734	30.413	9.10E-08
58	PPT, Tmax, H', AREA	0.930	9	24.399	16	54.751	30.430	9.02E-08
3	EVI	0.044	3	334.626	16	56.647	32.326	3.50E-08
52	PPT, Tmax, MDE, AREA	0.970	10	10.633	16	57.462	33.141	2.33E-08
63	PPT, EVI, H', MDE, AREA	0.970	10	10.639	16	57.471	33.150	2.32E-08
8	PPT, Tmax, EVI, H', MDE	0.962	10	13.386	16	61.146	36.825	3.69E-09
59	Tmax, EVI, H', MDE, AREA	0.951	10	17.261	16	65.214	40.893	4.82E-10
60	PPT, Tmax, EVI, H', AREA	0.931	10	23.987	16	70.479	46.158	3.47E-11
62	PPT, Tmax, H', MDE, AREA	0.970	11	10.354	16	81.037	56.715	1.77E-13
61	PPT, Tmax, EVI, MDE, AREA	0.970	11	10.611	16	81.429	57.108	1.45E-13
7	PPT, Tmax, EVI, H', MDE, AREA	0.970	12	10.352	16	121.033	96.712	3.65E-22
AQ 14	PPT, EVI	0.883	5	15.164	16	15.141	0.000	0.3790
18	Tmax, H'	0.865	5	17.498	16	17.432	2.291	0.1206
1	PPT	0.818	4	23.691	16	17.916	2.775	0.0946
47	PPT, EVI, AREA	0.932	7	8.849	16	18.523	3.382	0.0699
15	PPT, H'	0.855	5	18.887	16	18.654	3.513	0.0654
23	PPT, MDE	0.848	5	19.786	16	19.398	4.257	0.0451
2	Tmax	0.791	4	27.106	16	20.071	4.930	0.0322
11	PPT, EVI, H'	0.885	6	14.926	16	20.222	5.080	0.0299
17	Tmax, EVI	0.840	5	20.853	16	20.239	5.097	0.0296
28	PPT, EVI, MDE	0.884	6	15.009	16	20.310	5.169	0.0286
34	MDE, AREA	0.825	5	22.799	16	21.666	6.525	0.0145
16	Tmax, EVI, H'	0.871	6	16.736	16	22.053	6.912	0.0120
25	Tmax, H', MDE	0.870	6	16.860	16	22.171	7.030	0.0113
22	Tmax, MDE	0.816	5	23.888	16	22.413	7.271	0.0100

37	Tmax, AREA	0.866	6	17.413	16	22.687	7.546	0.0087
26	PPT, H', MDE	0.863	6	17.751	16	22.995	7.854	0.0075
13	PPT, Tmax	0.857	6	18.598	16	23.741	8.599	0.0051
56	PPT, EVI, H', AREA	0.944	8	7.263	16	23.935	8.793	0.0047
40	EVI, MDE, AREA	0.853	6	19.079	16	24.149	9.008	0.0042
10	PPT, Tmax, EVI	0.903	7	12.578	16	24.150	9.008	0.0042
44	Tmax, H', AREA	0.901	7	12.879	16	24.528	9.387	0.0035
27	Tmax, EVI, MDE	0.850	6	19.546	16	24.536	9.395	0.0035
38	PPT, AREA	0.845	6	20.100	16	24.983	9.842	0.0028
36	EVI, AREA	0.775	5	29.268	16	25.662	10.521	0.0020
39	H', MDE, AREA	0.833	6	21.744	16	26.241	11.100	0.0015
30	PPT, EVI, H', MDE	0.885	7	14.893	16	26.853	11.711	0.0011
54	PPT, EVI, MDE, AREA	0.933	8	8.751	16	26.917	11.775	0.0011
46	Tmax, EVI, AREA	0.885	7	14.981	16	26.947	11.806	0.0010
35	H', AREA	0.754	5	31.975	16	27.078	11.936	0.0010
5	MDE	0.586	3	53.755	16	27.390	12.248	0.0008
12	PPT, Tmax, H'	0.881	7	15.428	16	27.418	12.276	0.0008
50	Tmax, H', MDE, AREA	0.929	8	9.265	16	27.830	12.689	0.0007
29	Tmax, EVI, H', MDE	0.874	7	16.407	16	28.402	13.261	0.0005
43	EVI, H', AREA	0.807	6	25.027	16	28.491	13.350	0.0005
42	PPT, MDE, AREA	0.872	7	16.587	16	28.576	13.435	0.0005
41	Tmax, MDE, AREA	0.867	7	17.320	16	29.268	14.127	0.0003
45	PPT, H', AREA	0.866	7	17.403	16	29.345	14.203	0.0003
33	PPT, Tmax, MDE	0.869	7	18.249	16	30.104	14.963	0.0002
6	AREA	0.597	4	52.356	16	30.604	15.463	0.0002
49	EVI, H', MDE, AREA	0.855	7	18.876	16	30.645	15.503	0.0002
21	EVI, MDE	0.589	4	53.368	16	30.910	15.769	0.0001
20	H', MDE	0.587	4	53.674	16	31.002	15.860	0.0001
55	Tmax, EVI, H', AREA	0.904	8	12.455	16	32.564	17.423	6.24E-05
9	PPT, Tmax, EVI, H'	0.904	8	12.514	16	32.640	17.498	6.01E-05
32	PPT, Tmax, EVI, MDE	0.904	8	12.535	16	32.666	17.525	5.93E-05
4	H'	0.403	3	77.635	16	33.271	18.130	4.38E-05
48	PPT, Tmax, AREA	0.898	8	13.258	16	33.564	18.422	3.79E-05
3	EVI	0.383	3	80.123	16	33.776	18.634	3.41E-05
63	PPT, EVI, H', MDE, AREA	0.945	9	7.179	16	35.177	20.036	1.69E-05
24	EVI, H', MDE	0.589	5	53.367	16	35.274	20.132	1.61E-05
31	PPT, Tmax, H', MDE	0.885	8	14.924	16	35.458	20.316	1.47E-05
53	Tmax, EVI, MDE, AREA	0.885	8	14.980	16	35.517	20.376	1.43E-05
19	EVI, H'	0.441	4	72.598	16	35.834	20.693	1.22E-05
51	PPT, H', MDE, AREA	0.878	8	15.865	16	36.436	21.294	9.01E-06
57	PPT, Tmax, EVI, AREA	0.937	9	8.205	16	37.314	22.173	5.81E-06
59	Tmax, EVI, H', MDE, AREA	0.929	9	9.254	16	39.239	24.098	2.22E-06
58	PPT, Tmax, H', AREA	0.912	9	11.433	16	42.623	27.481	4.08E-07
8	PPT, Tmax, EVI, H', MDE	0.904	9	12.511	16	44.064	28.923	1.99E-07
52	PPT, Tmax, MDE, AREA	0.900	9	13.031	16	44.716	29.575	1.43E-07
61	PPT, Tmax, EVI, MDE, AREA	0.949	10	6.625	16	49.892	34.751	1.08E-08
60	PPT, Tmax, EVI, H', AREA	0.944	10	7.239	16	51.310	36.169	5.30E-09
62	PPT, Tmax, H', MDE, AREA	0.937	10	8.158	16	53.223	38.081	2.04E-09
7	PPT, Tmax, EVI, H', MDE, AREA	0.949	11	6.622	16	73.885	58.744	6.65E-14
MA 23	PPT, MDE	0.911	5	23.419	17	20.900	0.000	0.6349

22	Tmax, MDE	0.886	5	30.007	17	25.114	4.214	0.0772
28	PPT, EVI, MDE	0.915	6	22.438	17	25.118	4.218	0.0770
42	PPT, MDE, AREA	0.914	6	22.567	17	25.216	4.315	0.0734
26	PPT, H', MDE	0.911	6	23.401	17	25.833	4.932	0.0539
25	Tmax, H', MDE	0.897	6	27.142	17	28.354	7.454	0.0153
20	H', MDE	0.818	4	47.712	17	28.877	7.977	0.0118
27	Tmax, EVI, MDE	0.888	6	29.282	17	29.644	8.744	0.0080
41	Tmax, MDE, AREA	0.888	6	29.331	17	29.672	8.772	0.0079
15	PPT, H'	0.847	5	40.098	17	30.042	9.142	0.0066
33	PPT, Tmax, MDE	0.918	7	21.629	17	30.538	9.638	0.0051
54	PPT, EVI, MDE, AREA	0.917	7	21.835	17	30.700	9.799	0.0047
51	PPT, H', MDE, AREA	0.915	7	22.184	17	30.969	10.069	0.0041
30	PPT, EVI, H', MDE	0.915	7	22.407	17	31.139	10.239	0.0038
24	EVI, H', MDE	0.830	5	44.745	17	31.907	11.006	0.0026
21	EVI, MDE	0.778	4	58.254	17	32.271	11.370	0.0022
39	H', MDE, AREA	0.826	5	45.739	17	32.280	11.380	0.0021
38	PPT, AREA	0.822	5	46.596	17	32.596	11.695	0.0018
29	Tmax, EVI, H', MDE	0.898	7	26.653	17	34.089	13.189	0.0009
11	PPT, EVI, H'	0.855	6	38.079	17	34.110	13.209	0.0009
50	Tmax, H', MDE, AREA	0.897	7	27.045	17	34.337	13.437	0.0008
45	PPT, H', AREA	0.853	6	38.599	17	34.340	13.440	0.0008
40	EVI, MDE, AREA	0.801	5	52.132	17	34.504	13.604	0.0007
34	MDE, AREA	0.746	4	66.592	17	34.545	13.644	0.0007
47	PPT, EVI, AREA	0.847	6	40.092	17	34.985	14.085	0.0006
53	Tmax, EVI, MDE, AREA	0.893	7	28.194	17	35.045	14.144	0.0005
49	EVI, H', MDE, AREA	0.834	6	43.677	17	36.441	15.541	0.0003
48	PPT, Tmax, AREA	0.882	7	30.964	17	36.638	15.738	0.0002
18	Tmax, H'	0.768	5	60.845	17	37.132	16.231	0.0002
5	MDE	0.636	3	95.460	17	37.180	16.279	0.0002
63	PPT, EVI, H', MDE, AREA	0.920	8	21.059	17	37.640	16.740	0.0001
31	PPT, Tmax, H', MDE	0.919	8	21.282	17	37.819	16.919	0.0001
32	PPT, Tmax, EVI, MDE	0.918	8	21.413	17	37.923	17.023	0.0001
52	PPT, Tmax, MDE, AREA	0.918	8	21.572	17	38.049	17.149	0.0001
12	PPT, Tmax, H'	0.869	7	34.294	17	38.374	17.474	0.0001
56	PPT, EVI, H', AREA	0.861	7	36.384	17	39.380	18.480	6.16E-05
14	PPT, EVI	0.735	5	69.614	17	39.420	18.520	6.04E-05
57	PPT, Tmax, EVI, AREA	0.901	8	25.884	17	41.147	20.247	2.55E-05
37	Tmax, AREA	0.706	5	77.089	17	41.154	20.254	2.54E-05
16	Tmax, EVI, H'	0.777	6	58.541	17	41.421	20.521	2.22E-05
59	Tmax, EVI, H', MDE, AREA	0.898	8	26.650	17	41.643	20.743	1.99E-05
44	Tmax, H', AREA	0.768	6	60.817	17	42.069	21.169	1.61E-05
46	Tmax, EVI, AREA	0.764	6	61.828	17	42.349	21.449	1.40E-05
17	Tmax, EVI	0.674	5	85.600	17	42.935	22.034	1.04E-05
58	PPT, Tmax, H', AREA	0.889	8	29.125	17	43.153	22.252	9.35E-06
9	PPT, Tmax, EVI, H'	0.878	8	32.067	17	44.788	23.888	4.13E-06
1	PPT	0.512	4	128.148	17	45.673	24.773	2.65E-06
55	Tmax, EVI, H', AREA	0.779	7	57.985	17	47.303	26.403	1.17E-06
8	PPT, Tmax, EVI, H', MDE	0.920	9	21.027	17	47.328	26.428	1.16E-06
62	PPT, Tmax, H', MDE, AREA	0.920	9	21.099	17	47.386	26.486	1.13E-06
61	PPT, Tmax, EVI, MDE, AREA	0.919	9	21.246	17	47.505	26.604	1.06E-06

10	PPT, Tmax, EVI	0.776	7	58.731	17	47.520	26.620	1.05E-06
2	Tmax	0.427	4	150.382	17	48.393	27.493	6.80E-07
60	PPT, Tmax, EVI, H', AREA	0.902	9	25.777	17	50.791	29.891	2.05E-07
4	H'	0.089	3	239.216	17	52.797	31.897	7.52E-08
13	PPT, Tmax	0.554	6	117.106	17	53.208	32.307	6.13E-08
3	EVI	0.019	3	257.526	17	54.051	33.150	4.02E-08
6	AREA	0.019	3	257.570	17	54.053	33.153	4.01E-08
35	H', AREA	0.169	4	218.122	17	54.715	33.814	2.88E-08
19	EVI, H'	0.120	4	231.046	17	55.693	34.793	1.77E-08
36	EVI, AREA	0.022	4	256.592	17	57.476	36.576	7.25E-09
43	EVI, H', AREA	0.222	5	204.314	17	57.724	36.824	6.40E-09
7	PPT, Tmax, EVI, H', MDE, AREA	0.921	10	20.606	17	59.937	39.037	2.12E-09



Appendix 5. Summary statistics for multiple regressions using January precipitation. Variables are January precipitation (PPT), July maximum temperature (Tmax), enhanced vegetation index (EVI), habitat heterogeneity as measured by the Shannon diversity index (H'), the mid-domain effect (MDE), and log-transformed surface area (AREA). For each mountain range, PPT and Tmax are quadratic functions and EVI and H' are linear. The form of the relationship for MDE and Area is not consistent across gradients. MDE is linear for the Uinta Mountains (UI), Aquarius Plateau (AQ) and Markagunt Plateau (MA), and quadratic for the Wasatch Plateau (WA). Area is linear for UI and MA, and quadratic for WA and AQ. N: number of 100 m bins in each analyses. N may not reflect the total number of bins within a gradient because data could only be extracted for bins which contained sites and excluding EVI outliers may have resulted in the loss of a bin(s) for analysis. R<sup>2</sup>: coefficient of determination, RSS: model residual sum of squares, K: number of model parameters, AIC<sub>c</sub>: model AIC<sub>c</sub> score, D<sub>i</sub>: model AIC<sub>c</sub> difference, W<sub>i</sub>: model Akaike weight, reported using standard notation up to four decimal places after which scientation notation is reported.

Mtn	Model #	Variables	R <sup>2</sup>	K	RSS	N	AIC <sub>c</sub>	D <sub>i</sub>	W <sub>i</sub>
UI	37	Tmax, AREA	0.964	5	18.752	19	14.366	0.000	0.7010
	41	Tmax, MDE, AREA	0.964	6	18.363	19	18.352	3.986	0.0955
	46	Tmax, EVI, AREA	0.964	6	18.685	19	18.682	4.317	0.0810
	44	Tmax, H', AREA	0.965	6	18.752	19	18.750	4.385	0.0783
	48	PPT, Tmax, AREA	0.964	7	16.585	19	21.599	7.233	0.0188
	50	Tmax, H', MDE, AREA	0.965	7	18.002	19	23.157	8.791	0.0086
	53	Tmax, EVI, MDE, AREA	0.964	7	18.363	19	23.534	9.168	0.0072
	55	Tmax, EVI, H', AREA	0.965	7	18.680	19	23.859	9.493	0.0061
	57	PPT, Tmax, EVI, AREA	0.965	8	16.240	19	27.418	13.052	0.0010
	52	PPT, Tmax, MDE, AREA	0.964	8	16.358	19	27.555	13.190	0.0010
	58	PPT, Tmax, H', AREA	0.964	8	16.509	19	27.730	13.364	0.0009
	59	Tmax, EVI, H', MDE, AREA	0.965	8	18.002	19	29.375	15.009	0.0004
	34	MDE, AREA	0.864	4	60.082	19	32.731	18.366	7.21E-05
	61	PPT, Tmax, EVI, MDE, AREA	0.965	9	16.130	19	34.889	20.523	2.45E-05
	60	PPT, Tmax, EVI, H', AREA	0.965	9	16.141	19	34.902	20.536	2.43E-05
	62	PPT, Tmax, H', MDE, AREA	0.964	9	16.356	19	35.153	20.787	2.15E-05
	39	H', MDE, AREA	0.865	5	59.181	19	36.202	21.837	1.27E-05
	40	EVI, MDE, AREA	0.864	5	59.532	19	36.315	21.949	1.20E-05
	45	PPT, H', AREA	0.891	6	49.711	19	37.274	22.908	7.44E-06
	17	Tmax, EVI	0.862	5	63.348	19	37.495	23.130	6.66E-06
	42	PPT, MDE, AREA	0.890	6	50.550	19	37.592	23.226	6.34E-06
	56	PPT, EVI, H', AREA	0.907	7	42.446	19	39.454	25.088	2.50E-06
	54	PPT, EVI, MDE, AREA	0.902	7	44.827	19	40.491	26.125	1.49E-06
	49	EVI, H', MDE, AREA	0.865	6	59.136	19	40.573	26.207	1.43E-06
	47	PPT, EVI, AREA	0.870	6	59.631	19	40.731	26.365	1.32E-06
	27	Tmax, EVI, MDE	0.870	6	59.671	19	40.744	26.378	1.31E-06
	16	Tmax, EVI, H'	0.869	6	60.119	19	40.886	26.520	1.22E-06
	51	PPT, H', MDE, AREA	0.899	7	46.222	19	41.073	26.707	1.11E-06
	21	EVI, MDE	0.793	4	94.924	19	41.421	27.056	9.35E-07
	38	PPT, AREA	0.829	5	78.249	19	41.509	27.143	8.95E-07
	22	Tmax, MDE	0.829	5	78.423	19	41.551	27.186	8.76E-07
	18	Tmax, H'	0.815	5	84.547	19	42.980	28.614	4.29E-07
	7	PPT, Tmax, EVI, H', MDE, AREA	0.965	10	16.116	19	44.372	30.006	2.14E-07
	20	H', MDE	0.757	4	111.263	19	44.439	30.073	2.07E-07
	63	PPT, EVI, H', MDE, AREA	0.911	8	40.914	19	44.974	30.608	1.58E-07
	24	EVI, H', MDE	0.793	5	94.906	19	45.176	30.810	1.43E-07
	25	Tmax, H', MDE	0.832	6	76.708	19	45.516	31.150	1.21E-07
	29	Tmax, EVI, H', MDE	0.871	7	59.230	19	45.785	31.419	1.05E-07
	11	PPT, EVI, H'	0.826	6	79.649	19	46.231	31.865	8.44E-08
	2	Tmax	0.730	4	123.573	19	46.433	32.067	7.63E-08

	10	PPT, Tmax, EVI	0.866	7	61.506	19	46.501	32.135	7.37E-08
	28	PPT, EVI, MDE	0.818	6	83.525	19	47.133	32.768	5.37E-08
	6	AREA	0.682	3	152.430	19	47.163	32.797	5.30E-08
	5	MDE	0.663	3	154.348	19	47.401	33.035	4.70E-08
	13	PPT, Tmax	0.811	6	86.369	19	47.770	33.404	3.91E-08
	35	H', AREA	0.709	4	137.538	19	48.467	34.101	2.76E-08
	14	PPT, EVI	0.752	5	113.673	19	48.604	34.238	2.58E-08
	33	PPT, Tmax, MDE	0.839	7	73.616	19	49.916	35.550	1.34E-08
	23	PPT, MDE	0.734	5	121.839	19	49.922	35.557	1.33E-08
	43	EVI, H', AREA	0.739	5	122.320	19	49.997	35.631	1.28E-08
	36	EVI, AREA	0.688	4	150.036	19	50.119	35.754	1.21E-08
	15	PPT, H'	0.724	5	126.297	19	50.605	36.239	9.47E-09
	30	PPT, EVI, H', MDE	0.833	7	76.556	19	50.660	36.294	9.22E-09
	4	H'	0.599	3	183.421	19	50.680	36.314	9.13E-09
	9	PPT, Tmax, EVI, H'	0.876	8	56.740	19	51.187	36.821	7.08E-09
	12	PPT, Tmax, H'	0.827	7	79.238	19	51.314	36.948	6.65E-09
	32	PPT, Tmax, EVI, MDE	0.872	8	58.684	19	51.827	37.461	5.14E-09
	26	PPT, H', MDE	0.758	6	110.955	19	52.529	38.163	3.62E-09
	19	EVI, H'	0.600	4	183.106	19	53.904	39.538	1.82E-09
	31	PPT, Tmax, H', MDE	0.839	8	73.522	19	56.110	41.744	6.04E-10
	3	EVI	0.451	3	251.127	19	56.649	42.283	4.61E-10
	8	PPT, Tmax, EVI, H', MDE	0.876	9	56.705	19	58.775	44.409	1.59E-10
	1	PPT	0.433	4	259.639	19	60.539	46.174	6.60E-11
WA	23	PPT, MDE	0.951	6	17.028	16	22.330	0.000	0.3696
	28	PPT, EVI, MDE	0.967	7	11.680	16	22.965	0.635	0.2691
	34	MDE, AREA	0.945	6	19.285	16	24.321	1.991	0.1366
	22	Tmax, MDE	0.944	6	19.572	16	24.558	2.228	0.1213
	26	PPT, H', MDE	0.954	7	15.961	16	27.961	5.631	0.0221
	42	PPT, MDE, AREA	0.973	8	9.594	16	28.388	6.059	0.0179
	2	Tmax	0.864	4	47.439	16	29.026	6.696	0.0130
	27	Tmax, EVI, MDE	0.949	7	17.745	16	29.656	7.327	0.0095
	33	PPT, Tmax, MDE	0.970	8	10.659	16	30.072	7.743	0.0077
	39	H', MDE, AREA	0.946	7	18.750	16	30.538	8.208	0.0061
	25	Tmax, H', MDE	0.946	7	18.985	16	30.737	8.407	0.0055
	40	EVI, MDE, AREA	0.945	7	19.136	16	30.864	8.534	0.0052
	21	EVI, MDE	0.881	5	41.694	16	31.324	8.995	0.0041
	30	PPT, EVI, H', MDE	0.967	8	11.657	16	31.505	9.175	0.0038
	17	Tmax, EVI	0.869	5	45.745	16	32.808	10.478	0.0020
	18	Tmax, H'	0.865	5	47.368	16	33.366	11.036	0.0015
	37	Tmax, AREA	0.902	6	34.152	16	33.465	11.135	0.0014
	1	PPT	0.800	4	70.167	16	35.289	12.959	0.0006
	54	PPT, EVI, MDE, AREA	0.978	9	7.635	16	36.162	13.833	0.0004
	20	H', MDE	0.839	5	56.478	16	36.180	13.851	0.0004
	24	EVI, H', MDE	0.884	6	40.510	16	36.197	13.867	0.0004
	5	MDE	0.787	4	74.586	16	36.266	13.937	0.0003
	13	PPT, Tmax	0.880	6	41.971	16	36.764	14.434	0.0003
	46	Tmax, EVI, AREA	0.919	7	28.499	16	37.236	14.907	0.0002
	32	PPT, Tmax, EVI, MDE	0.976	9	8.296	16	37.491	15.161	0.0002
	38	PPT, AREA	0.873	6	44.583	16	37.730	15.400	0.0002
	16	Tmax, EVI, H'	0.870	6	45.492	16	38.052	15.723	0.0001

29	Tmax, EVI, H', MDE	0.950	8	17.651	16	38.143	15.813	0.0001
41	Tmax, MDE, AREA	0.948	8	18.173	16	38.609	16.279	0.0001
14	PPT, EVI	0.812	5	65.859	16	38.639	16.309	0.0001
49	EVI, H', MDE, AREA	0.947	8	18.398	16	38.806	16.476	9.77E-05
15	PPT, H'	0.802	5	69.334	16	39.462	17.132	7.04E-05
51	PPT, H', MDE, AREA	0.973	9	9.551	16	39.745	17.415	6.11E-05
44	Tmax, H', AREA	0.903	7	33.782	16	39.957	17.628	5.49E-05
31	PPT, Tmax, H', MDE	0.972	9	9.918	16	40.348	18.019	4.52E-05
10	PPT, Tmax, EVI	0.889	7	38.912	16	42.219	19.890	1.77E-05
12	PPT, Tmax, H'	0.881	7	41.645	16	43.305	20.976	1.03E-05
11	PPT, EVI, H'	0.815	6	64.714	16	43.692	21.362	8.49E-06
47	PPT, EVI, AREA	0.877	7	42.964	16	43.804	21.475	8.03E-06
45	PPT, H', AREA	0.876	7	43.563	16	44.026	21.696	7.19E-06
55	Tmax, EVI, H', AREA	0.919	8	28.422	16	45.765	23.435	3.01E-06
48	PPT, Tmax, AREA	0.917	8	29.112	16	46.148	23.819	2.49E-06
6	AREA	0.591	4	143.145	16	46.697	24.367	1.89E-06
53	Tmax, EVI, MDE, AREA	0.951	9	17.270	16	49.222	26.892	5.35E-07
35	H', AREA	0.628	5	130.050	16	49.525	27.196	4.60E-07
50	Tmax, H', MDE, AREA	0.948	9	18.165	16	50.031	27.701	3.57E-07
4	H'	0.357	3	225.057	16	50.300	27.971	3.12E-07
9	PPT, Tmax, EVI, H'	0.891	8	38.133	16	50.467	28.138	2.87E-07
36	EVI, AREA	0.601	5	139.822	16	50.685	28.355	2.57E-07
63	PPT, EVI, H', MDE, AREA	0.979	10	7.332	16	51.515	29.185	1.70E-07
56	PPT, EVI, H', AREA	0.880	8	41.906	16	51.977	29.647	1.35E-07
8	PPT, Tmax, EVI, H', MDE	0.977	10	8.203	16	53.311	30.981	6.92E-08
57	PPT, Tmax, EVI, AREA	0.936	9	22.306	16	53.316	30.987	6.90E-08
19	EVI, H'	0.377	4	218.211	16	53.442	31.113	6.48E-08
52	PPT, Tmax, MDE, AREA	0.975	10	8.866	16	54.554	32.225	3.72E-08
43	EVI, H', AREA	0.631	6	129.040	16	54.734	32.404	3.40E-08
3	EVI	0.044	3	334.626	16	56.647	34.317	1.31E-08
58	PPT, Tmax, H', AREA	0.917	9	29.110	16	57.576	35.246	8.21E-09
59	Tmax, EVI, H', MDE, AREA	0.951	10	17.261	16	65.214	42.884	1.80E-10
60	PPT, Tmax, EVI, H', AREA	0.937	10	22.055	16	69.135	46.806	2.54E-11
61	PPT, Tmax, EVI, MDE, AREA	0.979	11	7.296	16	75.436	53.106	1.09E-12
62	PPT, Tmax, H', MDE, AREA	0.975	11	8.846	16	78.518	56.188	2.33E-13
7	PPT, Tmax, EVI, H', MDE, AREA	0.979	12	7.291	16	115.425	93.095	2.25E-21
AQ 18	Tmax, H'	0.865	5	17.498	16	17.432	0.000	0.4594
2	Tmax	0.791	4	27.106	16	20.071	2.639	0.1228
17	Tmax, EVI	0.840	5	20.853	16	20.239	2.807	0.1129
34	MDE, AREA	0.825	5	22.799	16	21.666	4.234	0.0553
16	Tmax, EVI, H'	0.871	6	16.736	16	22.053	4.621	0.0456
25	Tmax, H', MDE	0.870	6	16.860	16	22.171	4.739	0.0430
22	Tmax, MDE	0.816	5	23.888	16	22.413	4.981	0.0381
37	Tmax, AREA	0.866	6	17.413	16	22.687	5.255	0.0332
40	EVI, MDE, AREA	0.853	6	19.079	16	24.149	6.717	0.0160
44	Tmax, H', AREA	0.901	7	12.879	16	24.528	7.096	0.0132
27	Tmax, EVI, MDE	0.850	6	19.546	16	24.536	7.104	0.0132
36	EVI, AREA	0.775	5	29.268	16	25.662	8.231	0.0075
39	H', MDE, AREA	0.833	6	21.744	16	26.241	8.809	0.0056
23	PPT, MDE	0.763	5	30.858	16	26.509	9.077	0.0049

46	Tmax, EVI, AREA	0.885	7	14.981	16	26.947	9.515	0.0039
35	H', AREA	0.754	5	31.975	16	27.078	9.646	0.0037
5	MDE	0.586	3	53.755	16	27.390	9.958	0.0032
50	Tmax, H', MDE, AREA	0.929	8	9.265	16	27.830	10.398	0.0025
13	PPT, Tmax	0.809	6	24.801	16	28.346	10.914	0.0020
29	Tmax, EVI, H', MDE	0.874	7	16.407	16	28.402	10.970	0.0019
43	EVI, H', AREA	0.807	6	25.027	16	28.491	11.059	0.0018
14	PPT, EVI	0.728	5	35.322	16	28.671	11.239	0.0017
41	Tmax, MDE, AREA	0.867	7	17.320	16	29.268	11.836	0.0012
12	PPT, Tmax, H'	0.867	7	17.339	16	29.286	11.854	0.0012
28	PPT, EVI, MDE	0.790	6	27.327	16	29.898	12.466	0.0009
10	PPT, Tmax, EVI	0.860	7	18.200	16	30.061	12.629	0.0008
6	AREA	0.597	4	52.356	16	30.604	13.172	0.0006
49	EVI, H', MDE, AREA	0.855	7	18.876	16	30.645	13.213	0.0006
21	EVI, MDE	0.589	4	53.368	16	30.910	13.478	0.0005
20	H', MDE	0.587	4	53.674	16	31.002	13.570	0.0005
26	PPT, H', MDE	0.773	6	29.543	16	31.145	13.713	0.0005
47	PPT, EVI, AREA	0.843	7	20.375	16	31.868	14.436	0.0003
55	Tmax, EVI, H', AREA	0.904	8	12.455	16	32.564	15.132	0.0002
15	PPT, H'	0.642	5	46.567	16	33.093	15.661	0.0002
4	H'	0.403	3	77.635	16	33.271	15.839	0.0002
42	PPT, MDE, AREA	0.825	7	22.786	16	33.657	16.225	0.0001
3	EVI	0.383	3	80.123	16	33.776	16.344	0.0001
11	PPT, EVI, H'	0.732	6	34.825	16	33.777	16.345	0.0001
33	PPT, Tmax, MDE	0.820	7	23.415	16	34.093	16.661	0.0001
24	EVI, H', MDE	0.589	5	53.367	16	35.274	17.842	6.14E-05
53	Tmax, EVI, MDE, AREA	0.885	8	14.980	16	35.517	18.085	5.43E-05
19	EVI, H'	0.441	4	72.598	16	35.834	18.402	4.64E-05
48	PPT, Tmax, AREA	0.877	8	15.932	16	36.503	19.071	3.32E-05
30	PPT, EVI, H', MDE	0.790	7	27.316	16	36.558	19.126	3.23E-05
9	PPT, Tmax, EVI, H'	0.873	8	16.507	16	37.071	19.639	2.50E-05
31	PPT, Tmax, H', MDE	0.872	8	16.663	16	37.221	19.789	2.32E-05
1	PPT	0.877	4	81.559	16	37.696	20.264	1.83E-05
38	PPT, AREA	0.647	6	45.889	16	38.192	20.760	1.43E-05
54	PPT, EVI, MDE, AREA	0.863	8	17.752	16	38.234	20.802	1.40E-05
32	PPT, Tmax, EVI, MDE	0.860	8	18.174	16	38.610	21.178	1.16E-05
45	PPT, H', AREA	0.756	7	31.708	16	38.944	21.512	9.79E-06
59	Tmax, EVI, H', MDE, AREA	0.929	9	9.254	16	39.239	21.808	8.45E-06
56	PPT, EVI, H', AREA	0.843	8	20.349	16	40.419	22.987	4.68E-06
51	PPT, H', MDE, AREA	0.834	8	21.592	16	41.367	23.935	2.92E-06
57	PPT, Tmax, EVI, AREA	0.909	9	11.856	16	43.204	25.772	1.16E-06
58	PPT, Tmax, H', AREA	0.903	9	12.563	16	44.131	26.699	7.32E-07
52	PPT, Tmax, MDE, AREA	0.881	9	15.507	16	47.499	30.067	1.36E-07
8	PPT, Tmax, EVI, H', MDE	0.877	9	15.986	16	47.986	30.554	1.07E-07
62	PPT, Tmax, H', MDE, AREA	0.954	10	6.029	16	48.384	30.952	8.73E-08
63	PPT, EVI, H', MDE, AREA	0.863	9	17.745	16	49.656	32.224	4.62E-08
61	PPT, Tmax, EVI, MDE, AREA	0.938	10	8.033	16	52.976	35.544	8.79E-09
60	PPT, Tmax, EVI, H', AREA	0.912	10	11.475	16	58.681	41.249	5.07E-10
7	PPT, Tmax, EVI, H', MDE, AREA	0.966	11	4.410	16	67.381	49.949	6.55E-12
MA 23	PPT, MDE	0.890	5	28.784	17	24.407	0.000	0.3961

22	Tmax, MDE	0.886	5	30.007	17	25.114	0.707	0.2781
25	Tmax, H', MDE	0.897	6	27.142	17	28.354	3.947	0.0550
20	H', MDE	0.818	4	47.712	17	28.877	4.470	0.0424
42	PPT, MDE, AREA	0.893	6	28.081	17	28.932	4.525	0.0412
28	PPT, EVI, MDE	0.892	6	28.365	17	29.103	4.696	0.0378
26	PPT, H', MDE	0.891	6	28.717	17	29.313	4.906	0.0341
27	Tmax, EVI, MDE	0.888	6	29.282	17	29.644	5.237	0.0289
41	Tmax, MDE, AREA	0.888	6	29.331	17	29.672	5.265	0.0285
24	EVI, H', MDE	0.830	5	44.745	17	31.907	7.500	0.0093
21	EVI, MDE	0.778	4	58.254	17	32.271	7.864	0.0078
39	H', MDE, AREA	0.826	5	45.739	17	32.280	7.873	0.0077
15	PPT, H'	0.820	5	47.120	17	32.786	8.379	0.0060
33	PPT, Tmax, MDE	0.899	7	26.570	17	34.036	9.629	0.0032
29	Tmax, EVI, H', MDE	0.898	7	26.653	17	34.089	9.682	0.0031
50	Tmax, H', MDE, AREA	0.897	7	27.045	17	34.337	9.931	0.0028
40	EVI, MDE, AREA	0.801	5	52.132	17	34.504	10.097	0.0025
34	MDE, AREA	0.746	4	66.592	17	34.545	10.138	0.0025
54	PPT, EVI, MDE, AREA	0.895	7	27.578	17	34.669	10.262	0.0023
51	PPT, H', MDE, AREA	0.894	7	27.799	17	34.805	10.398	0.0022
30	PPT, EVI, H', MDE	0.893	7	28.137	17	35.010	10.603	0.0020
53	Tmax, EVI, MDE, AREA	0.893	7	28.194	17	35.045	10.638	0.0019
49	EVI, H', MDE, AREA	0.834	6	43.677	17	36.441	12.034	0.0010
18	Tmax, H'	0.768	5	60.845	17	37.132	12.725	0.0007
5	MDE	0.636	3	95.460	17	37.180	12.773	0.0007
45	PPT, H', AREA	0.821	6	47.066	17	37.712	13.305	0.0005
11	PPT, EVI, H'	0.821	6	47.092	17	37.721	13.314	0.0005
38	PPT, AREA	0.737	5	68.988	17	39.267	14.860	0.0002
31	PPT, Tmax, H', MDE	0.902	8	25.707	17	41.030	16.623	9.73E-05
32	PPT, Tmax, EVI, MDE	0.902	8	25.829	17	41.111	16.704	9.35E-05
37	Tmax, AREA	0.706	5	77.089	17	41.154	16.747	9.14E-05
16	Tmax, EVI, H'	0.777	6	58.541	17	41.421	17.014	8.00E-05
52	PPT, Tmax, MDE, AREA	0.899	8	26.559	17	41.585	17.178	7.37E-05
59	Tmax, EVI, H', MDE, AREA	0.898	8	26.650	17	41.643	17.236	7.16E-05
12	PPT, Tmax, H'	0.839	7	42.232	17	41.914	17.507	6.25E-05
44	Tmax, H', AREA	0.768	6	60.817	17	42.069	17.662	5.79E-05
63	PPT, EVI, H', MDE, AREA	0.895	8	27.494	17	42.173	17.766	5.50E-05
46	Tmax, EVI, AREA	0.764	6	61.828	17	42.349	17.943	5.03E-05
47	PPT, EVI, AREA	0.762	6	62.367	17	42.497	18.090	4.67E-05
17	Tmax, EVI	0.674	5	85.600	17	42.935	18.528	3.75E-05
56	PPT, EVI, H', AREA	0.821	7	47.010	17	43.736	19.329	2.52E-05
14	PPT, EVI	0.646	5	92.816	17	44.310	19.904	1.89E-05
48	PPT, Tmax, AREA	0.803	7	51.771	17	45.376	20.969	1.11E-05
1	PPT	0.484	4	135.434	17	46.613	22.206	5.97E-06
55	Tmax, EVI, H', AREA	0.779	7	57.985	17	47.303	22.896	4.23E-06
2	Tmax	0.427	4	150.382	17	48.393	23.986	2.45E-06
58	PPT, Tmax, H', AREA	0.842	8	41.592	17	49.210	24.803	1.63E-06
9	PPT, Tmax, EVI, H'	0.839	8	42.199	17	49.456	25.049	1.44E-06
62	PPT, Tmax, H', MDE, AREA	0.904	9	25.168	17	50.384	25.978	9.05E-07
57	PPT, Tmax, EVI, AREA	0.830	8	44.601	17	50.397	25.990	9.00E-07
8	PPT, Tmax, EVI, H', MDE	0.904	9	25.223	17	50.422	26.015	8.89E-07

61	PPT, Tmax, EVI, MDE, AREA	0.902	9	25.814	17	50.815	26.408	7.30E-07
10	PPT, Tmax, EVI	0.721	7	73.327	17	51.294	26.887	5.75E-07
4	H'	0.089	3	239.216	17	52.797	28.390	2.71E-07
13	PPT, Tmax	0.535	6	121.963	17	53.899	29.492	1.56E-07
3	EVI	0.019	3	257.526	17	54.051	29.644	1.45E-07
6	AREA	0.019	3	257.570	17	54.053	29.647	1.45E-07
35	H', AREA	0.169	4	218.122	17	54.715	30.308	1.04E-07
19	EVI, H'	0.120	4	231.046	17	55.693	31.286	6.37E-08
36	EVI, AREA	0.022	4	256.592	17	57.476	33.069	2.61E-08
43	EVI, H', AREA	0.222	5	204.314	17	57.724	33.317	2.31E-08
60	PPT, Tmax, EVI, H', AREA	0.843	9	41.253	17	58.785	34.378	1.36E-08
7	PPT, Tmax, EVI, H', MDE, AREA	0.905	10	24.998	17	63.222	38.815	1.48E-09