

**Supplementary table 1.** Correlation matrix for elevation (m), slope aspect (°) and angle (°), and the temperature (°C) and precipitation (mm) variables from which climate models were built. ‘Mean’, ‘maximum’, ‘minimum’ refer to temperature (°C).

	Elevation	Slope aspect	Slope angle	Annual maximum	Annual precipitation	Winter precipitation	Spring precipitation	Summer minimum	Summer mean	Summer maximum	Autumn mean	Autumn maximum
Elevation	1.00											
Slope aspect	0.18	1.00										
Slope angle	0.73	-0.12	1.00									
Annual maximum	-0.73	0.16	-0.64	1.00								
Annual precipitation	0.73	-0.15	0.67	-0.83	1.00							
Winter precipitation	0.70	-0.08	0.60	-0.78	0.88	1.00						
Spring precipitation	0.63	-0.13	0.57	-0.75	0.92	0.77	1.00					
Summer minimum	-0.74	0.12	-0.61	0.94	-0.80	-0.71	-0.81	1.00				
Summer mean	-0.75	0.14	-0.63	0.92	-0.83	-0.71	-0.79	0.95	1.00			
Summer maximum	-0.72	0.14	-0.61	0.87	-0.81	-0.67	-0.73	0.87	0.98	1.00		
Autumn mean	-0.75	0.16	-0.65	0.80	-0.76	-0.66	-0.69	0.84	0.86	0.83	1.00	
Autumn maximum	-0.76	0.17	-0.65	0.86	-0.80	-0.72	-0.73	0.87	0.92	0.90	0.98	1.00