

Table 2) Importance de chaque caractéristique dans les 5 modèles

Predictor variable	Model approach (criterion of predictor importance)				
	BRT	RF	GLM	GAM	CART
	Relative influence	Out-of-bag or %IncMSE		T-effect (%) Drop contribution	Primary split
(a) Territory scale					
Simpson diversity index (vascular plants)	15.8	14.7	-	-	1st split
Vegetation-free area	11.6	18.6	27.6	32	-
Aspect (cosine transformed)	9.6	-	10.2	-	-
Depth of soil	8.0	12.3	-	-	2nd split
Distance to ski fields	7.3	9.5	-	-	4th split
<i>Vaccinium uliginosum</i>	6.8	9.1	12.8	-	-
Vertical structure elements	6.2	8.2	19.1	-	-
Vegetation height	6.2	8.5	-	-	3rd split
Variability of topography	5.7	9.8	23.1	-	-
Altitude	4.3	-	-	-	2nd split
<i>Salix herbacea</i>	-	9.4	-	-	-
Herbal layer (cover)	-	11.5	-	18.3	-
Juniperus communis (cover)	-	-	-	-	7.2
(b) Meso-scale (1km²)					
Snow bed vegetation	29.8	39.5	-	-	1st split
Mean July temperature	26.0	48.7	29.5	101.7	2nd split
Uncultivated land	6.6	39.2	17.3	43.6	3rd split
Forest cover	6.1	42.3	22.9	40.1	2nd split
Profile curvature	4.1	33.2	10.0	56.1	-
Range of altitude withn grid cell	3.8	26.6	-	-	-
Alp pasture	2.5	22.3	-	-	-
Low or sparse vegetation	2.3	28.9	-	-	-
Precipitation year	2.0	-	-	-	-
Radiation July	1.9	-	-	-	-
Streams	-	20.0	-	-	-
Poor or no vegetation cover	-	30.2	16.8	26.5	-
Water budget July	-	-	-	-	4th split
Ericaceous dwarf shrubs	-	-	3.5	-	-
(c) Macro-scale (100km²)					
Mean July temperature	65.19	48.78	34.73	10.22	1st, 2 nd and 3rd
Ericaceous dwarf shrubs	15.30	27.32	12.20	12.40	2nd split
Water budget July	3.36	18.52	5.49	34.66	3rd split
Cloud cover July	3.06	18.28	-	-	-
Low or sparse vegetation	2.66	21.48	-	-	-
Precipitation July	2.10	-	5.74	-	-
Dwarf and low shrubs	1.96	19.87	18.79	-	-
Forest cover	1.71	-	-	-	-
Coniferous forest with rich herbal layer, no shrubs	14.44	-	10.22	-	-
Pond weed	0.83	-	-	-	-
Alp pasture	-	13.97	11.64	25.07	-
Perennial plants (50-150 cm)	-	16.01	-	28.83	-
Coniferous forest with rich shrub layer	-	23.27	-	34.35	-
Coniferous forest with sparse undergrowth	-	-	-	34.88	-
Streams	-	-	11.41	-	-
High shrubs	-	-	-	8.90	-