

## Tables

**Table 1** Summary of maximum likelihood population-effects (MLPE) models. Briefly, for each species associated with adaptive loci, a model was fit to correlate dissimilarities among planning units where the species in terms of the adaptive genetic characteristics of individuals in them with dissimilarities in terms of the environmental conditions inside the planning units (denoted in the environmental column group). Similarly, for each species, a model was fit to correlate dissimilarities among the planning units in terms of the neutral genetic characteristics of individuals in them with dissimilarities in terms of the geographic position of the planning units (denoted in the geographic column group). Data shows the marginal  $R^2$  ( $MR^2$ ) and conditional  $R^2$  ( $CR^2$ ) for each model, and also the results from comparing the models to their corresponding null models. All  $\chi^2$  tests had 1 degree of freedom.

Species	Environmental				Geographic			
	$MR^2$	$CR^2$	$\chi^2$	$P$	$MR^2$	$CR^2$	$\chi^2$	$P$
<i>Androsace obtusifolia</i>					0.23	0.64	349.63	<0.001
<i>Arabis alpina</i>					0.15	0.41	1497.35	<0.001
<i>Campanula barbata</i>					0.32	0.69	3069.77	<0.001
<i>Carex firma</i>					0.016	0.34	42.73	<0.001
<i>Carex sempervirens</i>					0.017	0.11	135.41	<0.001
<i>Cerastium uniflorum</i>	<0.001	0.24	0.04	>0.99	0.11	0.85	402.27	<0.001
<i>Cirsium spinosissimum</i>	0.002	0.27	9.59	0.076	0.11	0.44	833.78	<0.001
<i>Dryas octopetala</i>					0.24	0.49	2367.76	<0.001
<i>Gentiana nivalis</i>					<0.001	0.95	4.48	>0.99
<i>Geum montanum</i>					0.043	0.93	2780.07	<0.001
<i>Geum reptans</i>	0.012	0.061	11.07	0.034	0.48	0.78	1135.31	<0.001
<i>Gypsophila repens</i>					<0.001	>0.99	251.26	<0.001
<i>Hedysarum hedysaroides</i>	0.071	0.16	151.86	<0.001	0.14	0.51	553.66	<0.001
<i>Hornungia alpina</i>	0.007	0.28	27.37	<0.001	0.20	0.39	1027.4	<0.001
<i>Hypochaeris uniflora</i>					0.22	0.63	474.97	<0.001
<i>Juncus trifidus</i>					0.062	0.89	1399.26	<0.001
<i>Ligusticum mutellinoides</i>					0.075	0.34	123.74	<0.001
<i>Loiseleuria procumbens</i>	0.002	0.18	5.07	0.95	0.22	0.68	1508.37	<0.001
<i>Luzula alpinopilosa</i>					<0.001	>0.99	40.61	<0.001
<i>Peucedanum ostruthium</i>	0.072	0.31	434.67	<0.001	0.24	0.43	1874.12	<0.001
<i>Phyteuma betonicifolium</i>	0.21	0.34	998.15	<0.001	0.44	0.55	3004.31	<0.001
<i>Phyteuma hemisphaericum</i>	0.067	0.11	128.93	<0.001	0.61	0.75	2832.08	<0.001
<i>Ranunculus alpestris</i>	0.022	0.27	61.69	<0.001	0.22	0.55	865.74	<0.001
<i>Rhododendron ferrugineum</i>	0.068	0.15	390.3	<0.001	0.45	0.66	5470.15	<0.001
<i>Saxifraga stellaris</i>	0.013	0.16	46.92	<0.001	0.28	0.49	1712.76	<0.001
<i>Sesleria caerulea</i>					0.063	0.44	773.82	<0.001
<i>Trifolium alpinum</i>					0.29	0.54	821.82	<0.001