

Ecography

**ECOG-03346**

Theodoridis, S., Patsiou, T. S., Randin, C. and Conti, E.  
2017. Forecasting range shifts of a cold-adapted species  
under climate change: are genomic and ecological  
diversity within species crucial for future resilience? –  
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**Supplementary material**

## Appendix 1

Table A1. Number of occurrences for each lineage of *Primula farinosa*.

<b>Region</b>	<b>Number of Occurrences</b>
Central–Western Alps	1204
Scandinavia	558
Western Carpathians	42
Pyrenees	65

Table A2. Sampling locations used in this study to assess the genomic diversity of each of the four lineages (i.e. CW Alps, Scandinavia, W Carpathians, Pyrenees) of *Primula farinosa*.

<b>Population Code</b>	<b>Longitude</b>	<b>Latitude</b>	<b>Region</b>	<b>Number of Individuals</b>
<b>Central–Western Alps</b>				
FR1	8.832097	47.290827	Alps, France	3
FR2	6.91287	44.79785	Alps, France	3
IT2	7.13475	44.54756	Alps, Italy	3
CH1	8.832097	47.290827	Alps, Switzerland	3
CH2	7.86024	46.54348	Alps, Switzerland	3
CH3	10.41713	46.88712	Alps, Switzerland	3
CH4	9.49412	46.48514	Alps, Switzerland	3
CH5	8.64811	46.90493	Alps, Switzerland	3
CH6	7.82904	46.04722	Alps, Switzerland	3
CH8	8.3876	46.57594	Alps, Switzerland	3
<b>Scandinavia</b>				
SW1	16.41928	56.30038	Sweden, Öland	2
SW5	16.56061	56.60441	Sweden, Öland	2
SW6	14.68839	58.35797	Sweden, Mainland	3
SW7	15.05134	58.41756	Sweden, Mainland	3
SW8	16.73994	58.78976	Sweden, Mainland	3
SW9	17.455	58.89394	Sweden, Mainland	3
SW11	18.28949	57.11624	Sweden, Götland	2
SW14	18.89126	57.81397	Sweden, Götland	2
SW15	18.89523	59.96427	Sweden, Mainland	3
SW16	17.34534	60.60882	Sweden, Mainland	3
<b>Western Carpathians</b>				
SK1	20.406389	48.989167	Carpathians, Tatra	2
SK2	20.230556	48.879444	Carpathians, Tatra	2
SK3	20.374444	49.220556	Carpathians, Tatra	2
SK4	19.949167	49.070556	Carpathians, Tatra	3
SK5	19.155556	49.148611	Carpathians, Tatra	3
SK6	18.89	48.879167	Carpathians, Tatra	3
<b>Pyrenees</b>				
ES1	0.75656	42.6289	Iberia, Pyrenees	3
ES2	0.84992	42.77107	Iberia, Pyrenees	3

ES3	0.5302	42.64923	Iberia, Pyrenees	3
ES4	-0.00972	42.63551	Iberia, Pyrenees	2
ES5	-0.43295	42.79872	Iberia, Pyrenees	3
ES6	-0.35548	42.6975	Iberia, Pyrenees	3
ES8	0.162111	42.939361	Iberia, Pyrenees	2

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Table A3. SDM calibration details

<b>Model</b>	<b>Number of Pseudo-absence</b>	<b>Number of Pseudo-absence Datasets</b>	<b>Number of Replicated Runs</b>
GLM	10000	1	10
GBM	Equal to number of presences	10	1
CTA	Equal to number of presences	10	1
FDA	Equal to number of presences (minimum 100)	10	1
MARS	Equal to number of presences (minimum 100)	10	1
RF	Equal to number of presences	10	1
MAXENT	10000	1	10