**Supplemental Figure 1.** The response curves show the probability of presence versus the environmental covariate. These are presented for the top three contributing covariates for each of the three *Linaria* taxa. Probability of presence ranges from 0 (no chance of taxon occurrence) to 1 (highest chance of taxon occurrence). The covariates were varied while all other covariates were held at their average value. An example of how to read the curves follows: the response of *L. dalmatica* to Mean Maximum Summer Temperature exemplifies how *L. dalmatica* has a preferred maximum temperature range in summer (approximately 22 to 29°C), below and above which the probability of presence drops off. This makes biological sense as a defined window of temperature is expected for preferred growing conditions. For *L. dalmatica* and *L. vulgaris*, the land use land cover with the highest red bar indicates the cover class with the highest influence on the probability of presence. The mean NDVI affecting the *L. vulgaris* probability of presence was highest at mean levels (1700 to 7000).

**Response of *L. dalmatica* to Mean Maximum Summer Temperature (°C)**

A close up of text on a white background

Description generated with high confidence

Mean Maximum Summer Temperature

**Response of *L. dalmatica* to Elevation**

A close up of text on a white background

Description generated with high confidence

Elevation

**Response of *L. dalmatica* to Land Use/Land Cover**

A screenshot of a cell phone

Description generated with very high confidence

Land Use/Land Cover

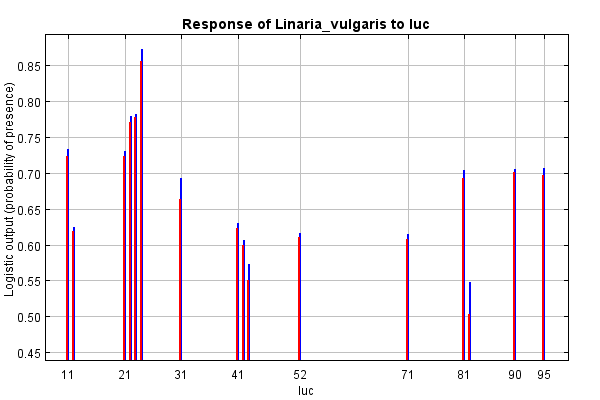
**A close up of a mans face

Description generated with high confidence**

Mean Maximum Autumn Temperature

**Response of *L. vulgaris* to Mean Maximum Autumn Temperature (°C)**

**Response of *L. vulgaris* to Land Use/Land Cover**

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Land Use/Land Cover

**Response of *L. vulgaris* to Mean NDVI (2010-2015)**

**A close up of text on a white background

Description generated with high confidence**

Mean NDVI Value

**A close up of a mans face

Description generated with high confidence**

**Response of hybrid *Linaria* to Number of Frost Free Days - Summer**

Number of Frost Free Days - Summer

**Response of hybrid *Linaria* to End of Season NDVI Standard Deviation (2010-2014)**

**A close up of a piece of paper

Description generated with high confidence**

End of Season NDVI Standard Deviation

**Response of hybrid *Linaria* to Summer Precipitation (mm)**

**A close up of a mans face

Description generated with high confidence**

Summer Precipitation