



































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Supporting Online Material

SOM T1. Predictor variables in the Persian leopard habitat suitability models (BRT = boosted regression trees, GLM = Generalized linear model, Maxent = Maximum entropy modelling). Response types found are:

 = increasing,  = decreasing,  = flat,  = hump-shaped.

Predictor variable	Source	Original resolution	Response type found		
			BRT	GLM	Maxent
% Cropland	Copernicus Global Land Service (Buchhorn et al. 2020)	100 m			
% Grassland	Copernicus Global Land Service (Buchhorn et al. 2020)	100 m			
% Permanent snow	Copernicus Global Land Service (Buchhorn et al. 2020)	100 m			
% Shrubland	Copernicus Global Land Service (Buchhorn et al. 2020)	100 m			
% Tree cover	Copernicus Global Land Service (Buchhorn et al. 2020)	100 m			
% Water	Copernicus Global Land Service (Buchhorn et al. 2020)	100 m			
Distance to settlements*	Open Street Map	Vector data			
Human population density	Gridded Population of the World (GPW), v4 (Center for International Earth Science Information Network – CIESIN – Columbia University 2018)	1 km			
Road density**	Open Street Map	Vector data			
Ruggedness	SRTM (NASA JPL 2013)	30 m			

* Calculated as the mean distance to human settlements per 1-km cell, based on Euclidean distances to settlement centre points on a 100-m grid.

** Calculated as the length of roads per 1 km grid cell.

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