

Supplementary Material

The potential distribution of the yellow monitor, *Varanus flavescens* (Hardwick & Gray) under multiple climate, land cover and dispersal scenarios in Nepal

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Supplementary Files

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Table S1: Environmental Variables used for modeling the distribution of the Yellow Monitor in Nepal using Ensemble of Small Models

Variable	Source	Original Resolution	Geographical Extent	Temporal Extent
Annual Mean Temperature	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
Mean diurnal temperature range	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
isothermality	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
temperature seasonality	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
mean daily maximum air temperature of the warmest month	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
mean daily minimum air temperature of the coldest month	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
annual range of air temperature	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
mean daily mean air temperatures of the wettest quarter	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
mean daily mean air temperatures of the driest quarter	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
mean daily mean air temperatures of the warmest quarter	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
mean daily mean air temperatures of the coldest quarter	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
annual precipitation amount	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
precipitation amount of	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013

the wettest month				
precipitation amount of the driest month	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
precipitation seasonality	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
mean monthly precipitation amount of the wettest quarter	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
mean monthly precipitation amount of the driest quarter	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
mean monthly precipitation amount of the warmest quarter	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
mean monthly precipitation amount of the coldest quarter	https://chelsa-climate.org/	30 arc seconds	Global	1979–2013
Elevation	http://www.worldclim.com/version2	30 m	Global	-
Slope	-	-	Global	-
Distance from Forest	https://modis.gsfc.nasa.gov/	250 m	Global	2019
Distance from Wetland	https://www2.cifor.org/global-wetlands/	30 arc seconds	Tropics	2010-2012
Annual Mean NDVI	modis.gsfc.nasa.gov	250 m	Global	2000-2020
Annual Mean NDWI	modis.gsfc.nasa.gov	250 m	Global	2000-2020
Bulk Density of Soil	OpenLandMap.org	250 m	Global	1950-2017
Coarse Fragment Volumetric	OpenLandMap.org	250 m	Global	1950-2017
Global Human Footprint	https://sedac.ciesin.columbia.edu/	1 km	Global	1995-2004

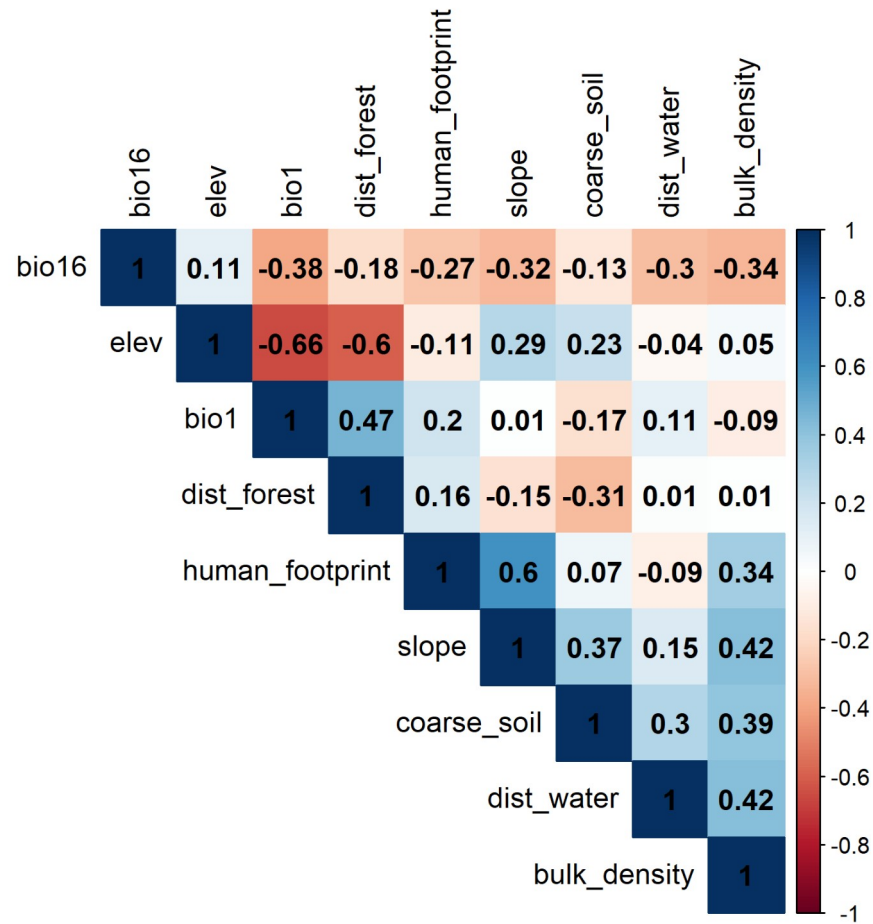


Fig S1: Spearman's Rank Correlation between the final set of variables used for the ensemble of small models for Yellow Monitor Lizard. The variables are coded as bio16: Precipitation of the wettest Quarter, elev: Elevation above mean sea level, bio1: Annual Mean Temperature, dist_forest: Distance to nearest forest, human_footprint: Human Footprint, slope: Slope, coarse_soil: Coarse Fragment Volumetric, dist_water: Distance to water, bulk_density: Bulk Density.