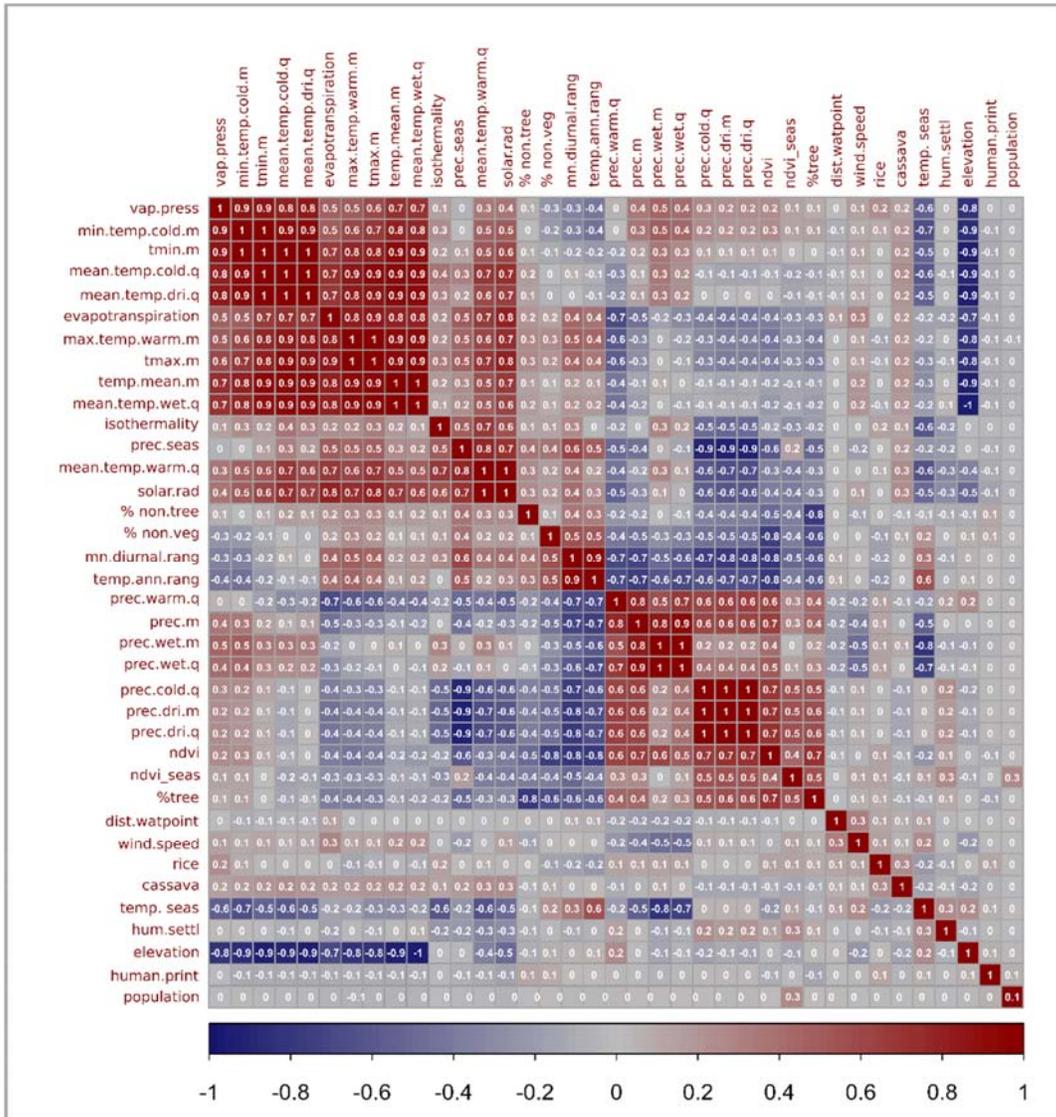
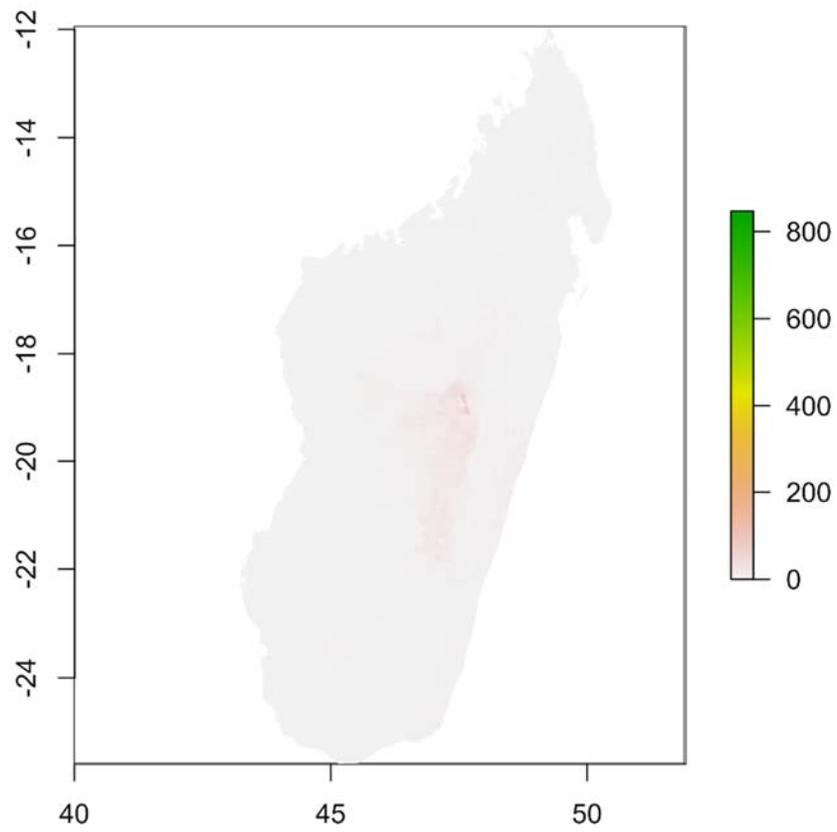


**Supplementary Figure 1.** Spatial and temporal distribution of the number total of observations of bushpigs originally gathered ( $n = 206$ , left) and of the observations included in the ecological niche model ( $n = 83$ , right) after correction for pseudoreplication.

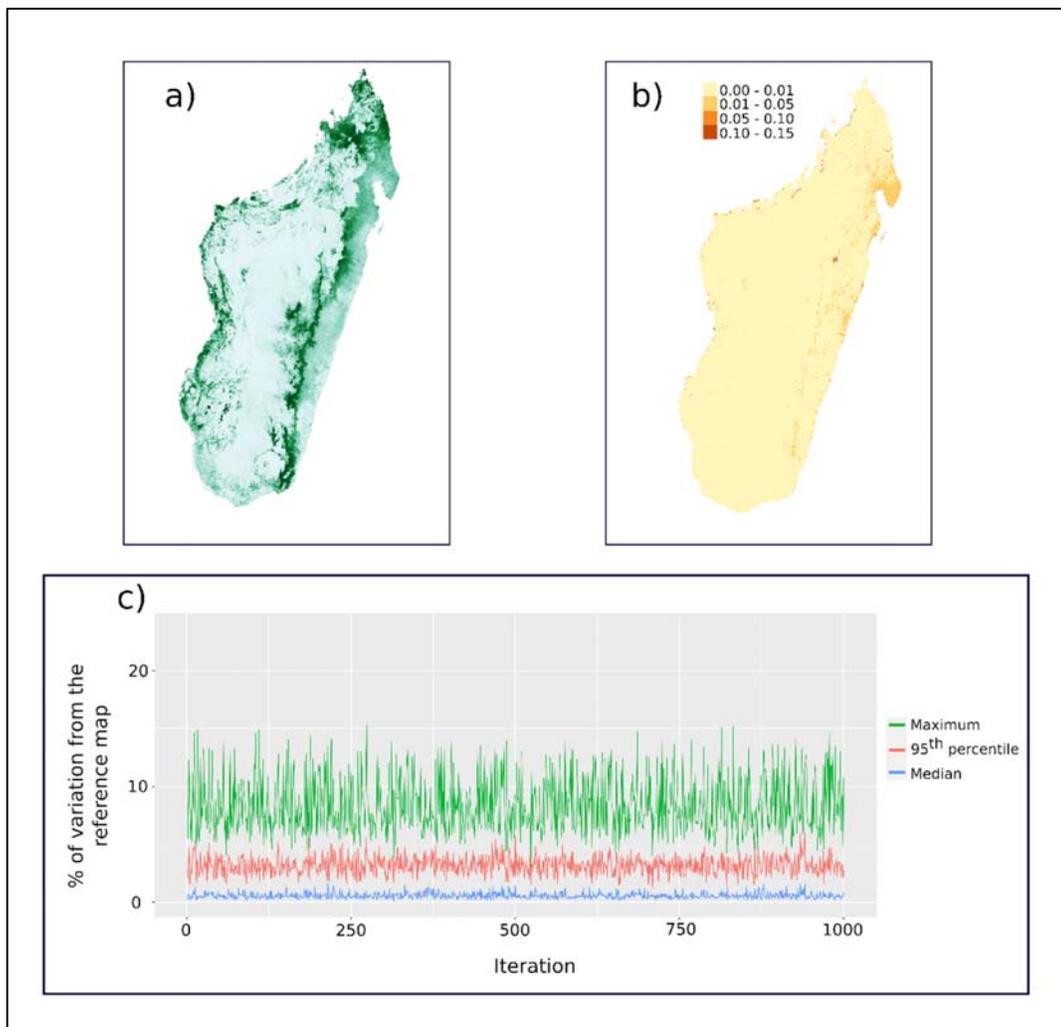


**Supplementary Figure 2.** Spearman's correlation matrix of the 36 environmental variables selected for the study.

Abbreviations: *%nontree*: percentage of land area occupied by non-tree vegetation cover; *%nonveg*: percentage of land area occupied by bare soil; *%tree*: percentage of land area occupied by tree cover; *cassava*: cassava production; *dist.watpoint*: distance to water points; *elevation*; *evapotranspiration*; *human.print*: human footprint; *hum.settl*: distance to human settlements (cities/towns); *isothermality*; *max.temp.warm.m*: maximum temperature of warmest month; *mean.temp.cold.q*: mean temperature of coldest quarter; *mean.temp.dri.q*: mean temperature of driest quarter; *mean.temp.warm.q*: mean temperature of warmest quarter; *mean.temp.wet.q*: mean temperature of wettest quarter; *min.temp.cold.m*: minimum temperature of coldest month; *mn.diurnal.rang*: mean diurnal range; *ndvi*: normalized difference vegetation index; *ndvi.seas*: normalized difference vegetation index seasonality; *population*: human population; *prec.cold.q*: precipitation of coldest quarter; *prec.dri.q*: precipitation of driest quarter; *prec.dri.m*: precipitation of driest month; *prec.m*: annual average of monthly precipitation; *prec.seas*: precipitation seasonality; *prec.warm.q*: precipitation of warmest quarter; *prec.wet.q*: precipitation of wettest quarter; *prec.wet.m*: precipitation of wettest month; *rice*: rice production; *solar.rad*: solar radiation; *temp.ann.rang*: temperature annual range; *temp.mean.m*: annual average of monthly temperature; *temp.seas*: temperature seasonality; *tmax.m*: annual average of maximum monthly temperature; *tmin.m*: annual average of minimum monthly temperature; *vap.press*: vapor pressure; *wind.speed*



**Supplementary Figure 3.** Map of the density of pigs (No of heads/km<sup>2</sup>) in Madagascar. (Retrieved from: <https://livestock.geo-wiki.org> [accessed on 20/07/2022])



**Supplementary Figure 4.** Variation in the repetition of the MaxEnt analysis resampling different presence points: a) final model presented in the study and used as reference; b) map of average absolute difference in the predicted output between each of 1,000 analysis and the reference map; c) Maximum, 95th percentile and median of the variation (in %) from the reference map for each of 1,000 iterations.

**Supplementary Table 1.** Variables considered for the ecological niche model and source.

Variable	Group	Source		
Annual average of monthly temperature	Climatic	Calculated from data retrieved from: worldclim.org		
Annual average of minimum monthly temperature				
Annual average of maximum monthly temperature				
Annual average of monthly precipitation				
Annual average of monthly wind speed				
Annual average of monthly solar radiation				
Annual average of monthly water vapor pressure				
Mean Diurnal Range			worldclim.org	
Isothermality				
Temperature Seasonality				
Maximum temperature of warmest month				
Minimum temperature of coldest month				
Temperature annual range				
Mean temperature of wettest quarter				
Mean temperature of driest quarter				
Mean temperature of warmest quarter				
Mean temperature of coldest quarter				
Precipitation of wettest month			Vegetation	Moderate Resolution Imaging Spectroradiometer (MODIS) urs.earthdata.nasa.gov
Precipitation of driest month				
Precipitation seasonality				
Precipitation of wettest quarter				
Precipitation of driest quarter				
Precipitation of warmest quarter				
Precipitation of coldest quarter				
Normalized difference vegetation index (NDVI)				
Evapotranspiration				
Percentage of land area occupied by tree cover				
Percentage of land area occupied by non-tree vegetation cover	Geographic	Retrieved from: worldclim.org		
Percentage of land area occupied by bare soil				
NDVI seasonality			Agricultural/human	International Food Policy Research Institute. Retrieved
Elevation				
Distance to water points				
Distance to human settlements				
Rice production	Agricultural/human	International Food Policy Research Institute. Retrieved		
Cassava production				

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Variable	Group	Source
Human population		from: <a href="http://dataverse.harvard.edu/dataverse/harvestchoice">dataverse.harvard.edu/dataverse/harvestchoice</a> Calculated from data retrieved from:
Human footprint		worldpop.org NASA Socioeconomic Data and Applications Center. Retrieved from: <a href="http://sedac.ciesin.columbia.edu/data/set/wildareas-v3-2009-human-footprint">sedac.ciesin.columbia.edu/data/set/wildareas-v3-2009-human-footprint</a>

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