Table S1. The 33 environmental variables selected for the study

Code	Environmental variable	Unit
bio_1	Annual Mean Temperature	℃
bio_2	Mean Diurnal Range (Mean of monthly (max temp - min temp))	℃
bio_3	Isothermality (BIO2/BIO7) (×100)	unitless
bio_4	Temperature Seasonality (standard deviation ×100)	unitless
bio_5	Max Temperature of Warmest Month	℃
bio_6	Min Temperature of Coldest Month	℃
bio_7	Temperature Annual Range (BIO5-BIO6)	unitless
bio_8	Mean Temperature of Wettest Quarter	℃
bio_9	Mean Temperature of Driest Quarter	℃
bio_10	Mean Temperature of Warmest Quarter	℃
bio_11	Mean Temperature of Coldest Quarter	℃
bio_12	Annual Precipitation	mm
bio_13	Precipitation of Wettest Month	mm
bio_14	Precipitation of Driest Month	mm
bio_15	Precipitation Seasonality (Coefficient of Variation)	mm
bio_16	Precipitation of Wettest Quarter	mm
bio_17	Precipitation of Driest Quarter	mm
bio_18	Precipitation of Warmest Quarter	mm
bio_19	Precipitation of Coldest Quarter	mm
wind5-6	Average wind speed from May to June	m/s
wind6-8	Average wind speed from June to August	m/s
t_clay	Percentage of clay in the topsoil	% wt
t_ph	pH in the topsoil	unitless
t_oc	Organic carbon content in the topsoil	g/kg
t_gravel	Volume percentage of gravel in the topsoil	%vol
t_sand	Sand content in the topsoil	% wt
t_silt	Powder sand particle content in the surface	% wt
t_bulk	Soil capacity in the topsoil	kg/dm3
t_ece	Electrical conductivity in the topsoil	dS/m
t_caco_3	Carbonate or lime content in the topsoil	% weight
ELE	Elevation	m
ASP	Aspect	unitless
SLO	Slope	°