Table S2 Environmental variables and their type and description.

Environmental variable type (source)	Variable	Description	Unit
Bioclimatic (Worldclim v2.1)	bio1	Annual Mean Temperature	°C
	bio2	Mean Diurnal Range (Mean of monthly (max temp - min temp))	°C
	bio3	Isothermality (BIO2/BIO7) (×100)	/
	bio4	Temperature Seasonality (standard deviation ×100)	Cof V
	bio5	Max Temperature of Warmest Month	°C
	bio6	Min Temperature of Coldest Month	°C
	bio7	Temperature Annual Range (BIO5-BIO6)	°C
	bio8	Mean Temperature of Wettest Quarter	°C
	bio9	Mean Temperature of Driest Quarter	°C
	bio10	Mean Temperature of Warmest Quarter	°C
	bio11	Mean Temperature of Coldest Quarter	°C
	bio12	Annual Precipitation	mm
	bio13	Precipitation of Wettest Month	mm
	bio14	Precipitation of Driest Month	mm
	bio15	Precipitation Seasonality (Coefficient of Variation)	/
	bio16	Precipitation of Wettest Quarter	mm
	bio17	Precipitation of Driest Quarter	mm
	bio18	Precipitation of Warmest Quarter	mm
	bio19	Precipitation of Coldest Quarter	mm
Topography (Worldclim v2.1)	elev	Elevation	m
Soil （HWSD v1.2）	t_oc	Topsoil Organic Carbon	% weight
	t_ph	Topsoil pH (H_2O)	$-log(H^+)$
	t_teb	Topsoil Total Exchangeable Bases	cmol/kg
	t_tex	Topsoil USDA Texture	/