Table S1. Environmental variables

Environment variables	Description	Abbreviation
Climate	Annual Mean Temperature（0.1℃）	bio_1
	Mean Diurnal Range Mean Diurnal Range (Mean of monthly (max temp - min temp))（0.1℃）	bio_2
	Isothermality (bio_2/bio_7) (* 100)（%）	bio_3
	Temperature Seasonality (standard deviation *100)（0.1℃）	bio_4
	Max Temperature of Warmest Month（0.1℃）	bio_5
	Min Temperature of Coldest Month（0.1℃）	bio_6
	Temperature Annual Range (bio_5-bio_6)（0.1℃）	bio_7
	Mean Temperature of Wettest Quarter（0.1℃）	bio_8
	Mean Temperature of Driest Quarter（0.1℃）	bio_9
	Mean Temperature of Warmest Quarter（0.1℃）	bio_10
	Mean Temperature of Coldest Quarter（mm）	bio_11
	Annual Precipitation（mm）	bio_12
	Precipitation of Wettest Month（mm）	bio_13
	Precipitation of Driest Month（mm）	bio_14
	Precipitation Seasonality (Coefficient of Variation)（%）	bio_15
	Precipitation of Wettest Quarter（mm）	bio_16
	Precipitation of Driest Quarter（mm）	bio_17
	Precipitation of Warmest Quarter（mm）	bio_18
	Precipitation of Coldest Quarter（mm）	bio_19
Soil	Soil type	soil
Soil texture	sand	sand
	silt	silt
	soil	clay
Soil quality	Nutrient availability	sq1
	Nutrient retention capacity	sq2
	Rooting conditions	sq3
	Oxygen availability to roots	sq4
	Excess salts	sq5
	Toxicity	sq6
	Workability (constraining field management)	sq7
Land Use/Cover Change	Land Use/Cover Change	lucc
Human activity intensity	Human footprint data set	hii
Terrain	Altitude	altitude
	Slope	slope
	Aspect	aspect