appendix

Table 1: Supporting Information Table 1 (S1):

Climate variable	Units	Definition	Source
Mean annual temperature (MAT)	°C		Primary literature; WorldClim ¹
Mean annual precipitation (MAP)	$mm \ yr^{-1}$		Primary literature; WorldClim ¹
Temperature seasonality		Standard deviation of MAT *100	WorldClim ¹
Precipitation seasonality		Coefficient of variation of MAP	WorldClim ¹
Annual temperature range	$^{\circ}\mathrm{C}$	$ \begin{array}{c} {\rm Maximum\ temperature\ of\ warmest\ month\ -} \\ {\rm minimum\ temperature\ of\ coldest\ month} \end{array} $	WorldClim ¹
Solar radiation	$kJ m^{-2}yr^{-1}$		$WorldClim2^2$
Cloud cover	percentage	Cloud percentage cover	CRU time-series dataset v 4.03 ³
Annual frost days	days yr^{-1}	Number of freeze days annually	CRU time-series dataset v 4.03 ³
Annual wet days	days yr^{-1}	Number of days with precipitation >0.1 mm annually	CRU time-series dataset v 4.03^3
Potential evapotranspiration (PET)	$mm \ yr^{-1}$	Mean annual potential evapotranspiration	Global Aridity Index and Potential Evapotranspiration Climate Database ⁴
Aridity		MAP/mean annual PET	Global Aridity Index and Potential Evapotranspiration Climate Database ⁴
Vapour pressure deficit (VPD)	kPa		TerraClimate ⁵
Maximum vapour pressure deficit (Max VPD)	kPa		Derived
Water stress months	months yr^{-1}	Number of months annually with MAP $<$ PET	Derived
Length of growing season	months yr^{-1}	Number of months annually with mean minimum temperature $>0.5^{\circ}\mathrm{C}$	Derived