Table S3 | Summary of Fourier analysis of climate variables

Site name		Variable Dominant cycle Significance of the cycle One-year cycle†				
	(m)		(month)	(null)	(average)	$(12 \pm 1.5 \text{ month})$
POR	550	Mean daily temperatu	12.5	*	*	One-year cycle
POR	550	Relative humidity	12.5	*	*	5 / 7 variables
POR	550	Acutual vapor pressur	15.0	N.S.	*	
POR	550	Saturation deficient	12.5	*	*	Significant one-year cycle
POR	550	PAR	12.5	*	*	(null spectrum) 5 / 7 variables
POR	550	Evapotranspiration	12.5	*	*	(avr. spectrum) 7 / 7 variables
POR		Rain	7.5	N.S.	*	•
PHQ	1650	Mean daily temperatu	12.0	*	*	One-year cycle
PHQ	1650	Relative humidity	12.0	*	*	4 / 7 variables
PHQ	1650	Acutual vapor pressur	6.0	*	*	
PHQ	1650	Saturation deficient	12.0	N.S.	*	Significant one-year cycle
PHQ	1650	PAR	5.9	*	*	(null spectrum) 3 / 7 variables
PHQ	1650	Evapotranspiration	12.0	*	*	(avr. spectrum) 4 / 7 variables
PHQ	1650	Rain	1.7	N.S.	N.S.	•
CAR	2700	Mean daily temperatu	25.0	N.S.	*	One-year cycle
CAR	2700	Relative humidity	12.5	N.S.	*	2 / 7 variables
CAR	2700	Acutual vapor pressur	6.3	N.S.	*	
CAR		Saturation deficient	12.5	N.S.	*	Significant one-year cycle
CAR	2700	PAR	6.3	N.S.	*	(null spectrum) 0 / 7 variables
CAR	2700	Evapotranspiration	8.4	N.S.	*	(avr. spectrum) 2 / 7 variables
CAR	2700	Rain	25.0	N.S.	*	-
LAB	3270	Mean daily temperatu	12.0	*	*	One-year cycle
LAB	3270	Relative humidity	12.0	N.S.	*	3 / 7 variables
LAB	3270	Acutual vapor pressur	6.0	*	*	
LAB		Saturation deficient	12.0	N.S.	*	Significant one-year cycle
LAB	3270	PAR	6.0	*	*	(null spectrum) 1 / 7 variables
LAB	3270	Evapotranspiration	6.0	*	*	(avr. spectrum) 3 / 7 variables
LAB		Rain	2.7	N.S.	N.S.	

†This column indicates how many study sites exhibited annual seasonality (i.e., one-year cycle). "One-year cycle" indicates the number of study sites of which dominant cycle is 12 ± 1.5 months. "Significant one-year cycle" indicates the number of study sites which showed significant annual seasonality compared with null or average spectrum.