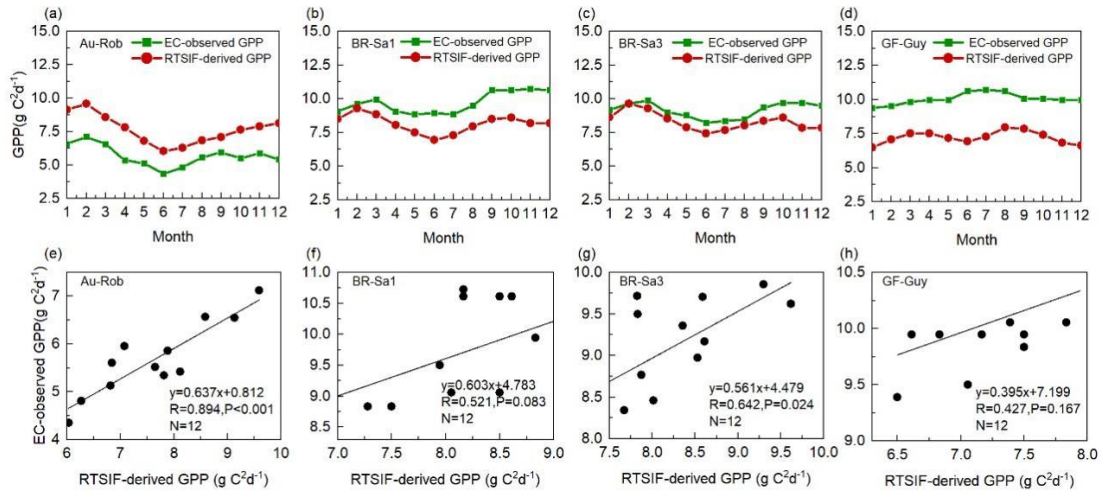
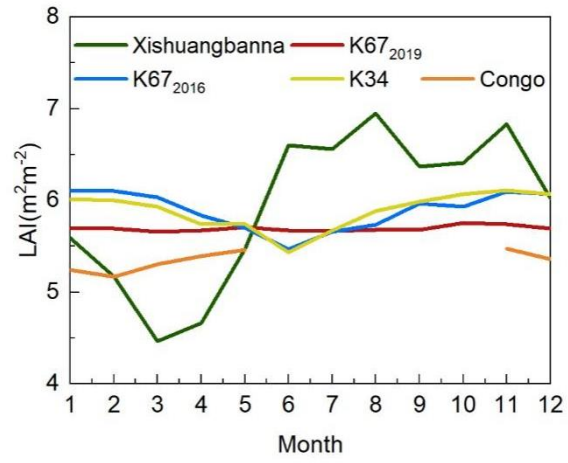


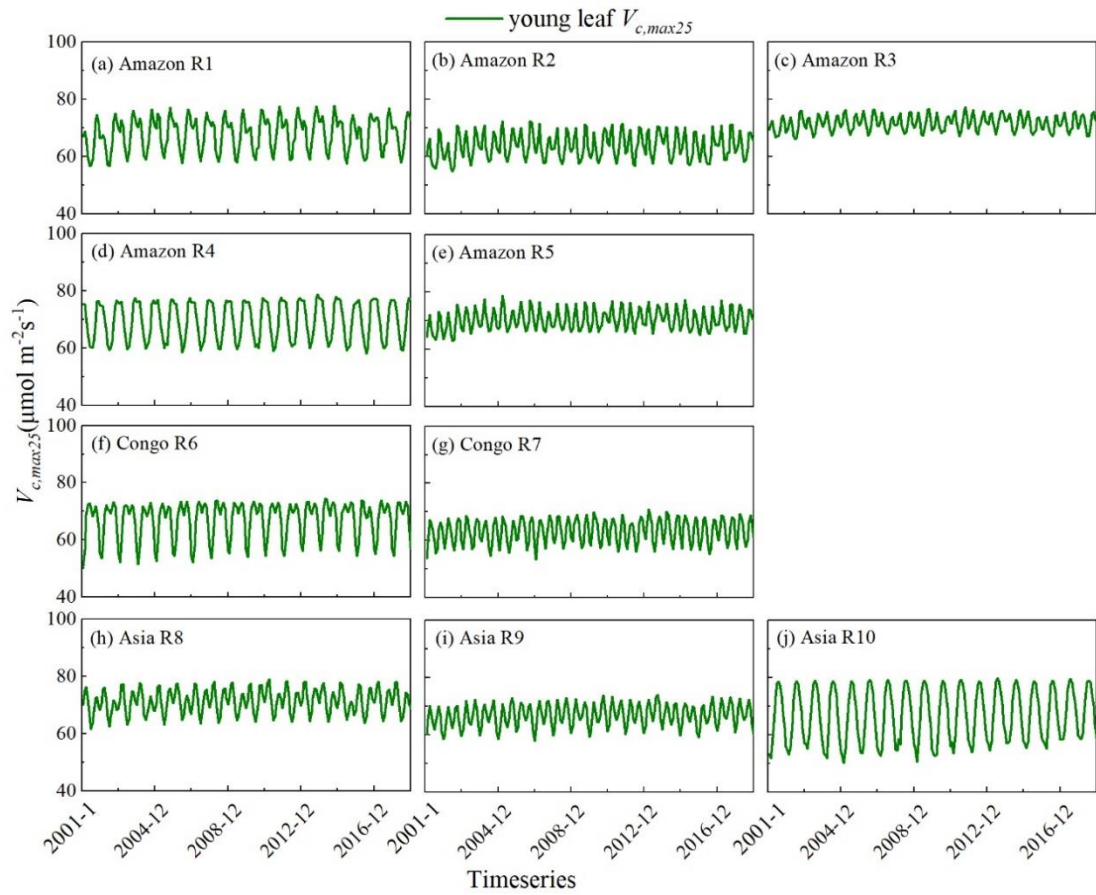
## Supplementary Figures



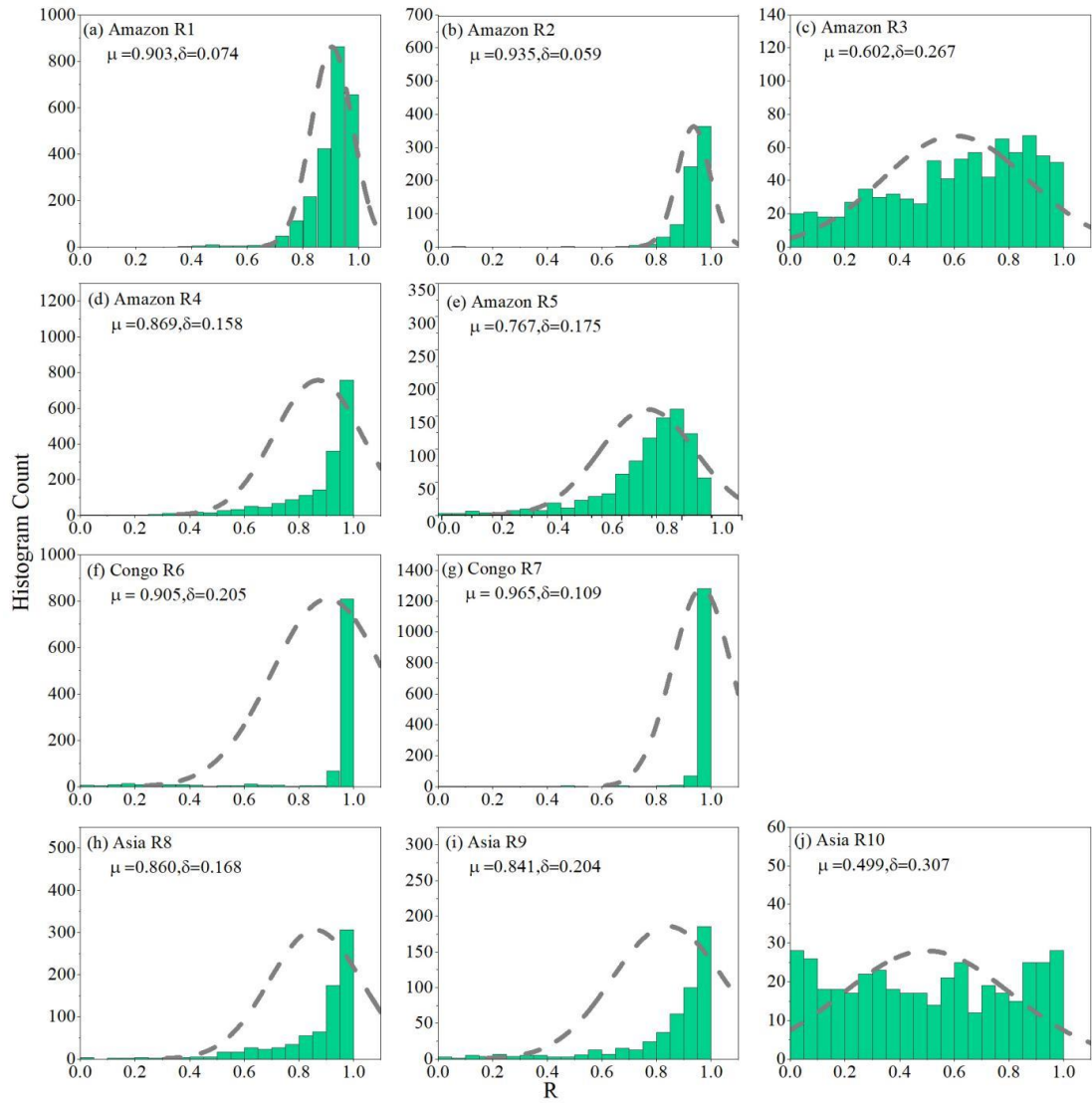
**Figure S1.** Comparisons between monthly RTSIF-derived GPP (red) and observed GPP at eddy covariance (EC) tower sites (green). (a, e) Au-Rob, (b, f) BR-Sa1, (c, g) BR-Sa3, and (d, h) GF-Guy.



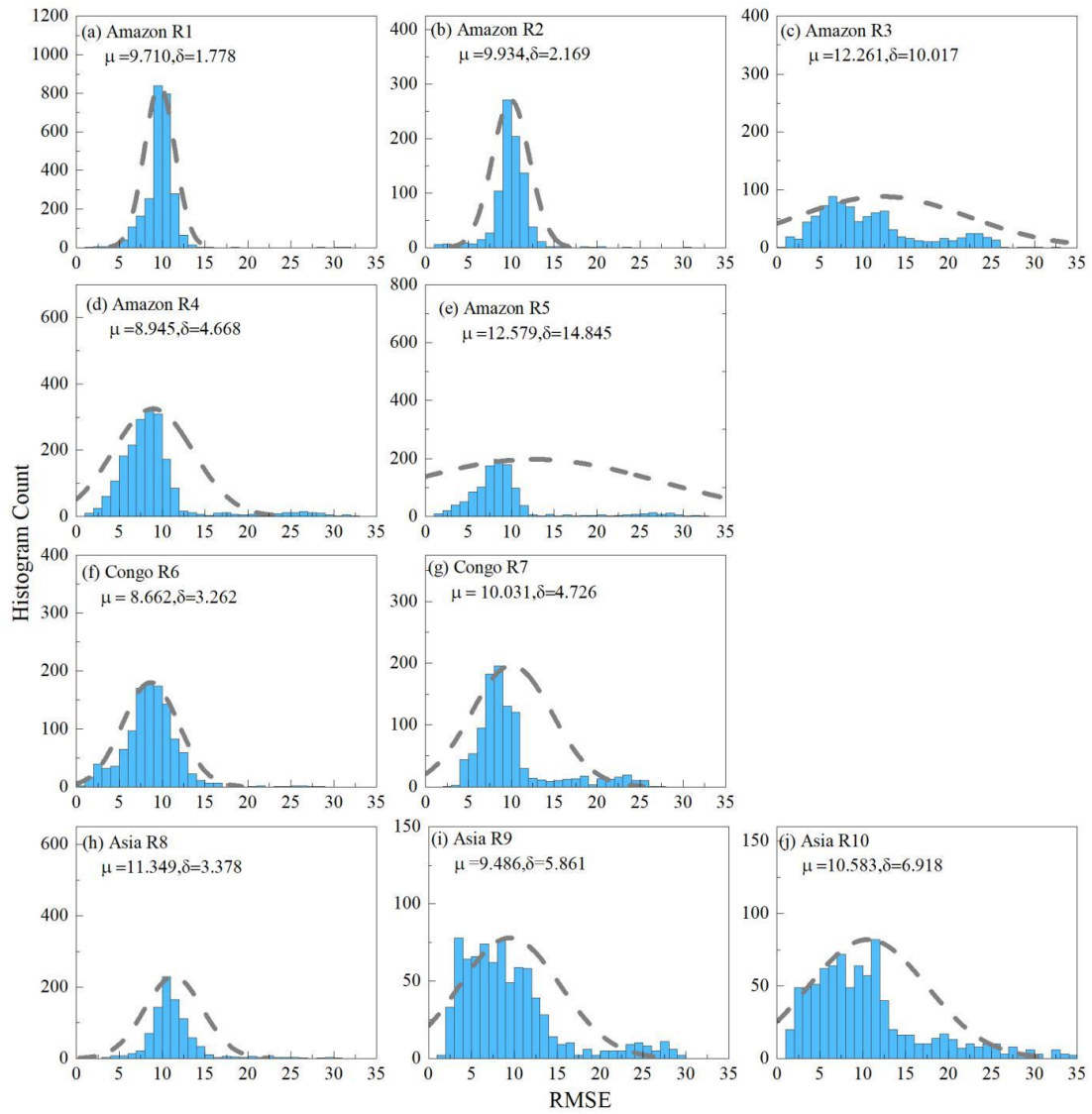
**Figure S2.** The seasonality of observed total LAI values from previously published literatures.



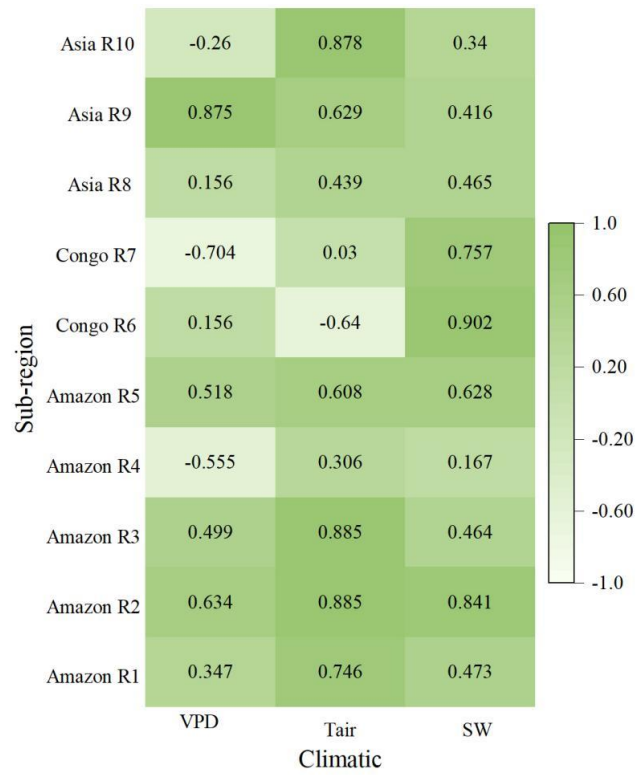
**Figure S3.** Time series of the simulated young leaf  $V_{c,max25}$  in ten subzones clustered according to the K-means analysis.



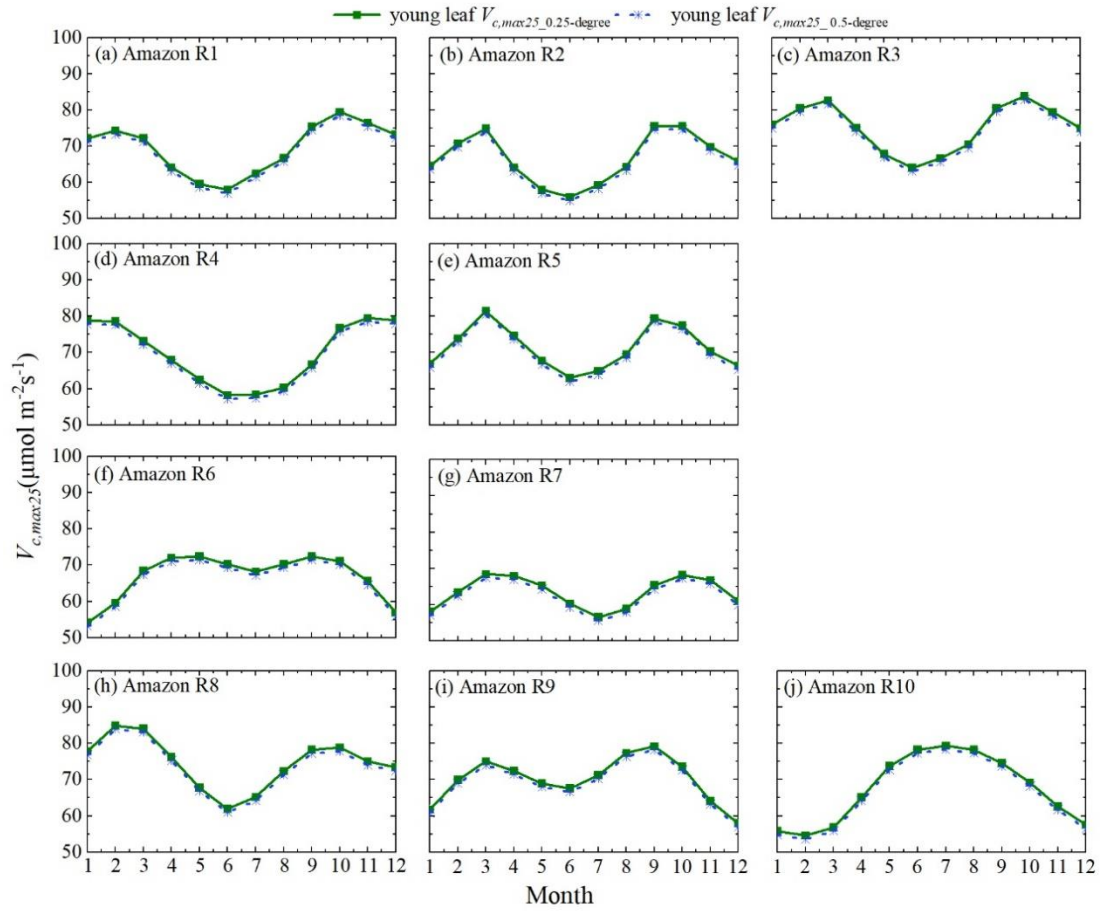
**Figure S4.** Statistical analyses of R between SIF-simulated monthly  $V_{c,max25}$  and dissolved  $V_{c,max25}$  from GPP for the ten k-mean clustered subzones



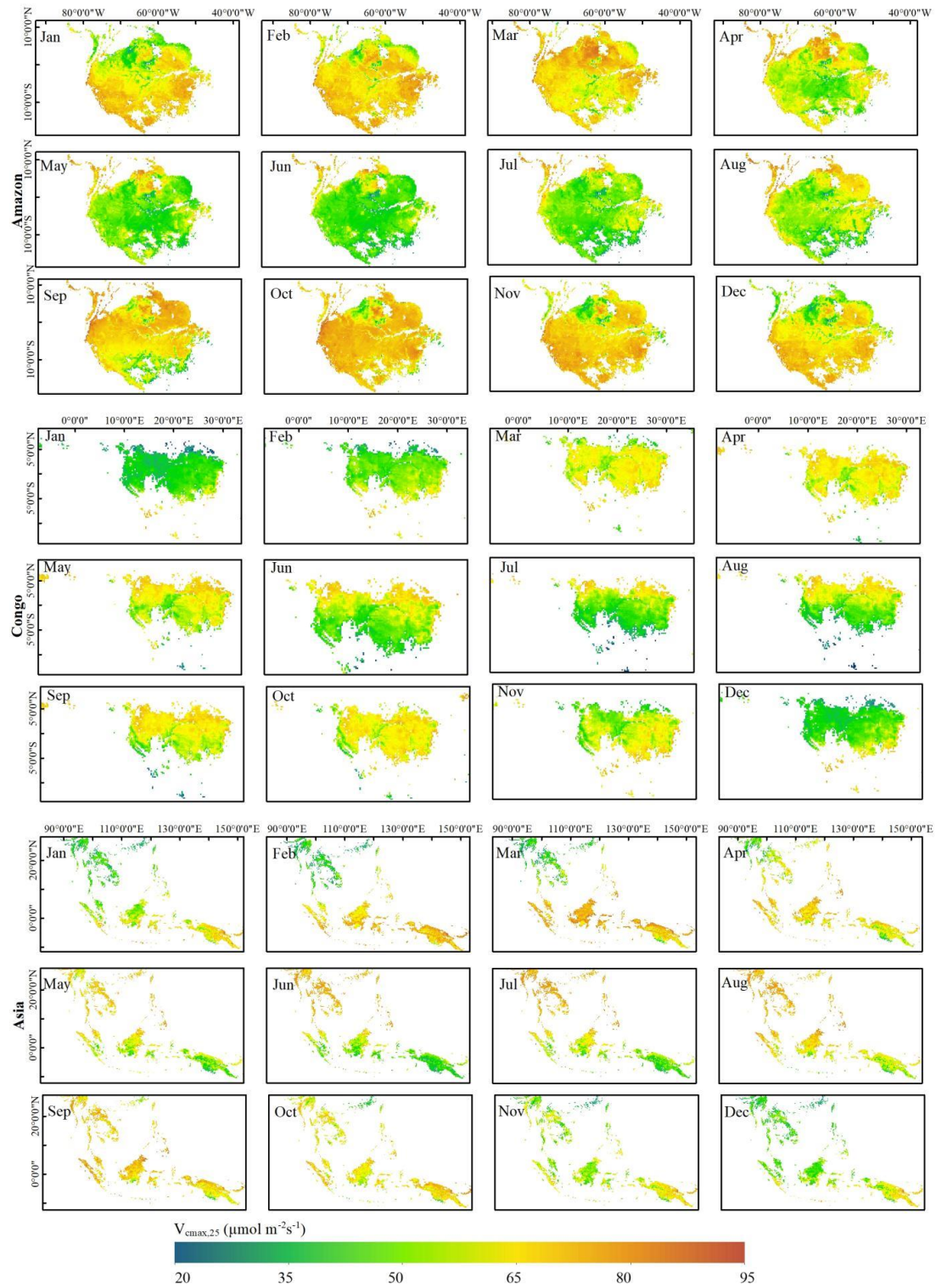
**Figure S5.** Statistical analyses of RMSE between SIF-simulated monthly  $V_{c,max25}$  and dissolved  $V_{c,max25}$  from GPP for the ten K-means clustered subzones



**Figure S6.** The correlation coefficients (R) between the young leaf  $V_{c,max25}$  and climatic in ten regions classified using K-means method.

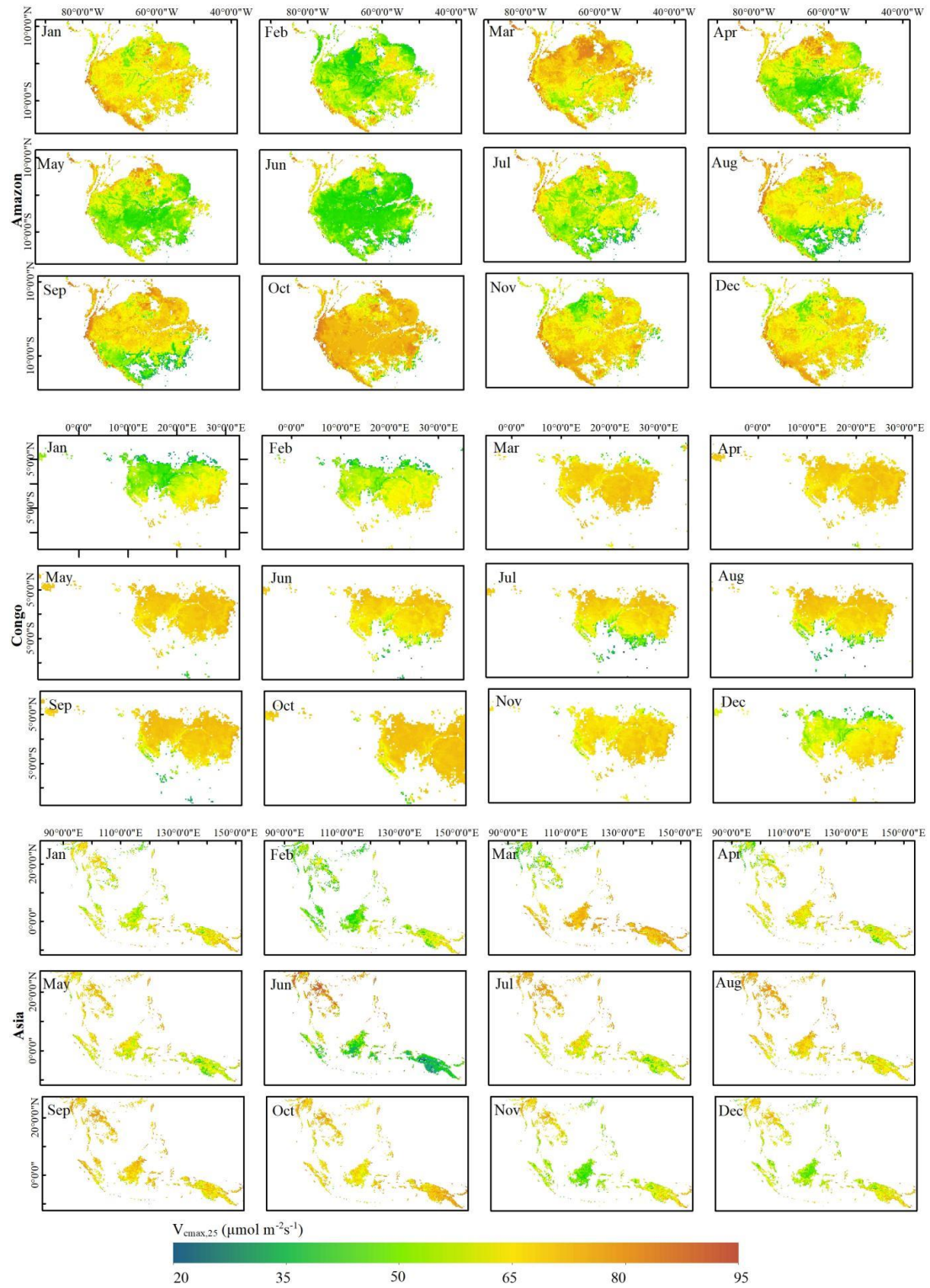


**Figure S7.** Comparison the seasonality of young leaf  $V_{c,max25}$  leaves at  $0.25^\circ$  and  $0.5^\circ$  scale in the ten clustered regions.

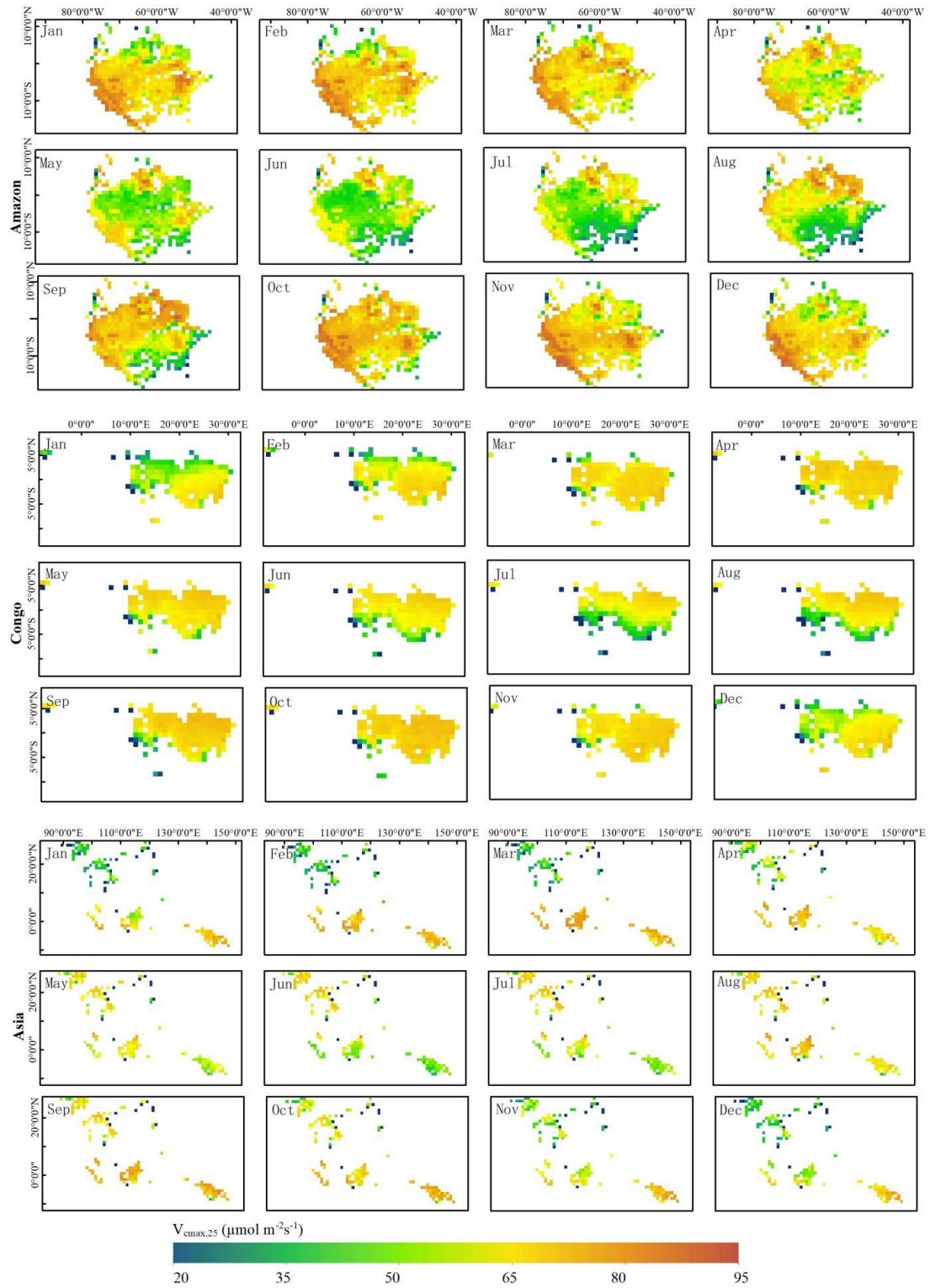


**Figure S8.** Spatial distributions and seasonal changes of young leaf  $V_{c,max25}$  in TEFs derived from RT-SIF (2001–2018). White areas are missing data.





**Figure S9.** Spatial distributions and seasonal changes of young leaf  $V_{c,max25}$  in TEFs derived from GoSIF (2001–2018). White areas are missing data.



**Figure S10.** Spatial distributions and seasonal changes of young leaf  $V_{c,max25}$  in TEFs derived from FLUXCOM (2001–2013). White areas are missing data. Black dots are invalid value.

## Supplementary Tables

**Table S1** In situ observation sites information of  $V_{c,max25}$  from previously published literatures

<b>Site name</b>	<b>Lat</b>	<b>Lon</b>	<b><math>V_{c,max25}</math></b>	<b>References</b>
BR-Sa1	2.8567°S	54.958°W	young and mean leaves age $V_{c,max25}$	Keller et al., 2004
GF-Guy	5.278°N	52.925°W	mean leaves age $V_{c,max25}$	Wang et al., 2022
CN-Din	23.170°N	112.540°E	mean leaves age $V_{c,max25}$	<a href="https://fluxnet.org/data/fluxnet2015-dataset/">https://fluxnet.org/data/fluxnet2015-dataset/</a>
MDJ-03	5.984°S	12.869°E	mean leaves age $V_{c,max25}$	Ishida et al., 2015

**Table S2** Information of four sites with observations of eddy covariance data

<b>Site ID</b>	<b>Site Name</b>	<b>Latitude</b>	<b>Longitude</b>
AU-Rob	Robson Creek, Queensland, Australia Forest Ecosystem Research Station	-17.12	145.63
BR-Sa1	Santarem-Km67-Primary Forest Ecosystem Research Station	-2.86	-54.96
BR-Sa3	Santarem-Km83-Logged Forest Ecosystem Research Station	-3.02	-54.97
GF-Guy	Guyaflex (French Guiana) Forest Ecosystem Research Station	5.28	-52.92

**Table S3** Information of total LAI mean values from previously published literatures

<b>NO.</b>	<b>LAI mean</b>	<b>Sites</b>	<b>Methods</b>	<b>References</b>
1	5.88	K34	observation	Wu et al., 2016
2	5.89	K67	observation	Wu et al., 2016
3	5.7	K67	observation	Smith et al., 2019
4	5.34	Congo	observation	de Wasseige et al., 2003
5	5.93	Xishuangbanna	observation	Li et al., 2010
6	6.0	ORCHIDEE TrBE module	Module	De Weirdt et al., 2012
7	5.45	Tapajo´s National Fores	observation	Asner et al., 2003
8	6.04	Barro Colorado Island	observation	Wirth et al., 2001
9	6.0	Costa Rican Forest	observation	Clark et al., 2008
10	5.9	Tapajo´s National Forest	observation	Brando et al., 2008
11	5.67	Dinghushan	observation	Zhao, Chen et al., 2020

**Table S4-Part1** Equations of photosynthesis and stomatal conductance model for calculating  $A_n$ ,  $A_c$ ,  $A_j$  and  $A_p$  and intermediate variables in Figure 2

Equations	Notes	Ref.
$A_n = \min \{ A_c, A_j, A_p \} - R_{dark}$	Net carbon assimilation rate ( $A_n$ , $\mu\text{mol}/\text{m}^2/\text{s}$ ).	Farquhar et al., 1980; Bernacchi et al., 2013
$A_c = V_{cmax} \times \frac{c_i - \Gamma^*}{c_i + K_c \times (1 + \frac{O}{K_o})}$	Rubisco-limited photosynthetic rate ( $w_c$ , $\mu\text{mol}/\text{m}^2/\text{s}$ )	Farquhar et al., 1980
$A_j = J \times \frac{c_i - \Gamma^*}{4 \times (c_i + 2 \times \Gamma^*)}$	Electron-transport limited rate of photosynthetic rate ( $w_j$ , $\mu\text{mol}/\text{m}^2/\text{s}$ )	Farquhar et al., 1980
$J = \frac{J_e + J_{max} - \sqrt{(J_e + J_{max})^2 - 4 \times \Theta \times J_e \times J_{max}}}{2 \times \Theta}$	The rate of electrons through the thylakoid membrane ( $\mu\text{mol}/\text{m}^2/\text{s}$ )	Farquhar et al., 1980; Bernacchi et al., 2013
$J_e = Q \times \alpha \times \beta \times \Phi_{PSII}$	The rate of whole electron transport provided by light ( $\mu\text{mol}/\text{m}^2/\text{s}$ ).	Bernacchi et al., 2013
$A_p = 0.5 \times V_{cmax}$	Triose phosphate export limited rate of photosynthesis ( $\mu\text{mol}/\text{m}^2/\text{s}$ )	Ryu et al., 2011
$Para = Para_{25} \times \exp\left(\frac{(T_K - 298.15) \times \Delta H_{para}}{R \times T_K \times 298.15}\right)$	Temperature dependence function for various parameters including $K_c$ , $K_o$ , $\Gamma^*$ , $R_{dark}$ and $V_{cmax}$ . $T_K$ denotes leaf temperature in Kelvin. Reference temperature is 25 °C.	Bernacchi et al., 2013
$J_{max} = J_{max,25} \times \exp\left(\left(\frac{25 - T_{opt}}{\Omega_T}\right)^2 - \left(\frac{T_K - 273.15 - T_{opt}}{\Omega_T}\right)\right)$	Temperature dependence function for maximum electron transport rate ( $J_{max}$ ). $T_{opt}$ is the optimal temperature for $J_{max}$ .	Bernacchi et al., 2013; June et al., 2004
$g_s = 1.6 \times \left(1 + \frac{g_1}{\sqrt{VPD}}\right) \times \frac{A_n}{c_a}$ $A_n = g_s \times (c_a - c_i)$ $\Rightarrow c_i = c_a \times \left(1 - \frac{1}{1.6 \times \left(1 + \frac{g_1}{\sqrt{VPD}}\right)}\right)$	Use optimal stomatal model to estimate internal $\text{CO}_2$ concentration ( $c_i$ ) from atmospheric $\text{CO}_2$ concentration ( $c_a$ ) and vapor pressure deficit (VPD)	Lin et al., 2015; Medlyn et al., 2011

**Table S4-Part2** Parameters used in photosynthesis and stomatal conductance model for calculating An, Ac, Aj and Ap and intermediate variables in Figure 2

Symbol/Equations	Notes	Ref.
$c_a = 380$	Atmospheric CO <sub>2</sub> concentration (ppm)	
$g_1 = 3.77$	Coefficient in stomatal conductance scheme	Lin et al., 2015
$J_{\max,25} = 1.67 \times V_{c\max,25}$	Maximum electron transport rate ( $\mu\text{mol}/\text{m}^2/\text{s}$ ) at 25 °C	Medlyn et al., 2002
$O = 210$	Atmospheric O <sub>2</sub> concentration (pp thousand)	
$R = 8.314$	Universal gas constant (J/K/mol)	
$T_{opt} = 35$	Optimal temperature for $J_{\max}$ (°C)	Lloyd and Farquhar, 2008
$K_{c,25} = 404.9$ $\Delta H_{K_c} = 79.43$	Michaelis-Menton constant for carboxylase ( $\mu\text{mol}/\text{mol}$ ) at 25 °C and activation energy for temperature dependence (kJ/mol)	Bernacchi et al., 2001
$K_{o,25} = 278.4$ $\Delta H_{K_o} = 36.38$	Michaelis-Menton constant for oxygenase (mmol/mol) at 25 °C and activation energy for temperature dependence (kJ/mol)	Bernacchi et al., 2001
$R_{\text{dark},25} = 0.015 \times V_{c\max,25}$ $\Delta H_{R_{\text{dark}}} = 46.39$	Leaf dark respiration ( $\mu\text{mol}/\text{m}^2/\text{s}$ ) at 25 °C and activation energy for temperature dependence (kJ/mol)	Bernacchi et al., 2001
$V_{c\max,25}$ $\Delta H_{V_{c\max}} = 65.33$	Maximum carboxylation rate ( $\mu\text{mol}/\text{m}^2/\text{s}$ ) at 25 °C is acquired from observations. Its activation energy for temperature dependence (kJ/mol) is listed	Bernacchi et al., 2001
$\Gamma_{25}^* = 42.75$ $\Delta H_{\Gamma^*} = 38.83$	CO <sub>2</sub> compensation point ( $\mu\text{mol}/\text{mol}$ ) at 25 °C and activation energy for temperature dependence (kJ/mol)	Bernacchi et al., 2001
$\alpha = 0.85$	Leaf absorbance fraction of photosynthetically active radiation (PAR)	Farquhar et al., 1980; Bernacchi et al., 2013
$\beta = 0.5$	Fraction of PAR that reaches PSII system	Farquhar et al., 1980; Bernacchi et al., 2013
$\Phi_{PSII} = 0.352 + 0.022 \times T_c - 3.42e^{-4}T_c$	Maximum quantum efficiency of PSII photochemistry. $T_c$ denotes leaf temperature in Celsius.	Bernacchi et al., 2003; Evans, 1989; von Caemmerer et al., 2000
$\Theta = 0.76 + 0.018 \times T_c - 3.7e^{-4}T_c$	Convexity of light-response curve. $T_c$ denotes leaf temperature in Celsius.	Bernacchi et al., 2003; Evans, 1989; Ögren and Evans, 1993
$\Omega_T = 11.6 + 0.18 \times T_{opt}$	Coefficient for the temperature function of $J_{\max}$ .	Bernacchi et al., 2003

**Table S4-Part3** An, Ac, Aj and Ap and intermediate variables in Figure 2. Equations to calculate radiative transfer within canopy with a total leaf area index as LAI<sub>total</sub>

Equations	Notes	Ref.
$Q_{tot} = (1 - \rho_{cb}) \times PAR_{b,0} \times (1 - e^{-k'_b \times CI \times L_c}) + (1 - \rho_{cd}) \times PAR_{d,0} \times (1 - e^{-k'_d \times CI \times L_c})$	Total PAR absorbed by canopy ( $\mu\text{mol}/\text{m}^2/\text{s}$ )	He et al., 2012; Ryu et al., 2011; De Pury and Farquhar, 1997
$k_b = \frac{0.5}{\cos(SZA)}$	Extinction coefficient for sun-lit fraction of LAI	De Pury and Farquhar, 1997
$k'_b = \frac{0.46}{\cos(SZA)}$	Extinction coefficient for beam and scattered beam PAR	De Pury and Farquhar, 1997
$k'_d = 0.719$	Extinction coefficient for diffuse and scattered diffuse PAR	De Pury and Farquhar, 1997
$\rho_{cb} = 0.029$	Canopy reflection coefficient for beam PAR	De Pury and Farquhar, 1997
$\rho_{cd} = 0.036$	Canopy reflection coefficient for diffuse PAR	De Pury and Farquhar, 1997
$\sigma = 0.15$	Leaf scattering coefficient of radiation	De Pury and Farquhar, 1997
$CI = 0.63$	Leaf clumping index	De Pury and Farquhar, 1997



**Table S4-Part4** Equations to calculate incoming photosynthetically active radiation (PAR) over canopy

Equations	Notes	Ref.
$PAR_{b,0} = R_{short} \times f_{PAR} \times f_{PAR,b}$ $PAR_{d,0} = R_{short} \times f_{PAR} \times (1 - f_{PAR,b})$	The canopy top photosynthetically active radiation in beam ( $PAR_{b,0}$ ) and diffuse ( $PAR_{d,0}$ ) light	Weiss and Norman, 1985
$f_{PAR} = \frac{R_{b,vis} + R_{d,vis}}{R_{b,nir} + R_{d,nir} + R_{b,vis} + R_{d,vis}}$ $f_{PAR,b} = \frac{R_{b,vis}}{R_{b,vis} + R_{d,vis}}$ $\times (1 - (\frac{0.9 - \frac{R_{short}}{R_{b,nir} + R_{d,nir} + R_{b,vis} + R_{d,vis}}}{0.7})^2)$	The fraction of total PAR over total incoming radiation ( $f_{PAR}$ ) and the fraction of beam PAR over total PAR ( $f_{PAR,b}$ )	Weiss and Norman, 1985
$R_{b,vis} = \frac{600 \times e^{-0.185 \times \frac{P}{P_0} \times m}}{m}$	Expected beam visible radiation under clear sky ( $W/m^2$ )	Weiss and Norman, 1985
$R_{d,vis} = \frac{0.4 \times (600 - R_{b,vis} \times m)}{m}$	Expected diffuse visible radiation under clear sky ( $W/m^2$ )	Weiss and Norman, 1985
$R_{b,nir} = \frac{720 \times e^{-0.06 \times \frac{P}{P_0} \times m} - w}{m}$	Expected beam near-infrared radiation under clear sky ( $W/m^2$ )	Weiss and Norman, 1985
$R_{d,nir} = \frac{0.6 \times (720 - R_{b,nir} \times m - w)}{m}$	Expected diffuse near-infrared radiation under clear sky ( $W/m^2$ )	Weiss and Norman, 1985
$w = 1320 \times 10^{-1.195 + 0.4459 \times \log_{10} m - 0.0345 \times (\log_{10} m)^2}$	Expected water absorbance of near-infrared radiation in the atmosphere ( $W/m^2$ )	Weiss and Norman, 1985
$m = \cos(SZA)^{-1}$	Parameter calculated from solar zenith angle (SZA)	Weiss and Norman, 1985

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