	$\delta^{13}C$ (‰ VPDB)		N/C (molar)		$\Delta^{14}C$ (‰)		Notes and References
	mean	std. dev.	mean	std. dev.	mean	std. dev.	
C_3 Tropical Rainforest Plants	-30.6	1.5	0.038	0.007	45	19	$\delta^{13}C$: Mean and std. dev. of all "tropical rainforest" samples compiled by [1] (n=106); N/C: Mean and std. dev. of all samples from [2], [3] (n=38); $\Delta^{14}C$: Mean and std. dev. of all ≥63μm POC from [4] (n=3).
C_4 Savanna Grasses (Leaves)	-13.4	1.0	0.018	0.017	45	19	$\delta^{13}C$: Mean and std. dev. of all C_4 plant samples compiled by [5] (n=107); N/C: Mean and std. dev. of all samples from [3], [6], [7] (n=17); $\Delta^{14}C$: Mean and std. dev. of all ≥63μm POC from [4] (n=3).
Oubangui Phytoplankton	(-37.2, -27.3)*	0.9	0.153	0.018	38	10	$\delta^{13}C$: Phytoplankton fractionation factor from [8], DIC $\delta^{13}C$ from [9], [10], and std. dev. from $\delta^{13}C$ vs. $Q_w/Q_{w,median}$ RMSE (Fig. 6a); N/C: Intercept of N/C vs. $Q_w/Q_{w,median}$ regression (Fig. 6b), std. dev. is regression RMSE; $\Delta^{14}C$: Mean and range of atmospheric CO_2 for the years 2010 - 2013 [11].
Congo Phytoplankton	(-41.2, -35.6)*	3.2	0.153	0.018	38	10	$\delta^{13}C$: Phytoplankton fractionation factor from [8], DIC $\delta^{13}C$ from Congo pCO_2 values [12] and pCO_2 vs. DIC $\delta^{13}C$ regression of [9], [10], and std. dev. from pCO_2 vs. DIC $\delta^{13}C$ RMSE; N/C and $\Delta^{14}C$: Same as Oubangui Phytoplankton (above).
C_3 Tropical Rainforest Soils	-25.7	1.4	0.091	0.007	--	--	$\delta^{13}C$: Mean and std. dev. of all C_3 soil samples from [2], [5] (%OC- and depth-weighted) (n=70); N/C: Mean and std. dev. of all samples from [13] (%OC- and depth-weighted) (n=35); $\Delta^{14}C$: Unknown.
C_4 Savanna Soils	-14.9	1.0	0.074	0.021	--	--	$\delta^{13}C$: Mean and std. dev. of all C_4 soil samples compiled by [5] (n=86); N/C: Mean and std. dev. of all samples from [14] (n=67); $\Delta^{14}C$: Unknown.

[1] Diefendorf et al. (2010); [2] Powers and Schlesinger (2002a); [3] Meyers (1994); [4] Spencer et al. (2012); [5] Magill et al. (2013a); [6] Thomas and asakawa (1993); [7] Ross et al. (2002); [8] Rau et al. (1989); [9] Bouillon et al. (2012); [10] Bouillon et al. (2014); [11] Graven (2015); [12] Wang et al. (2013b); [13] Powers and Schlesinger (2012b); [14] Cleveland and Liptzin (2007)

*Time-varying end-member composition