

Supplementary Table S2 – Estimates of biomass carbon (C) in vegetation per biome.

Biomes defined according to Prentice et al.³³ as in Beer et al.³⁴. The ranges report the 25th (P25) and 75th (P75) percentiles.

Biome type	Total Vegetation stocks (PgC)			Carbon density (kgC m ⁻²)		
	Mean	P25	P75	Mean	P25	P75
Tropical forests	221	171	271	11.0	8.5	13.5
Temperate forests	48	36	59	3.8	2.9	4.7
Boreal forests	39	29	49	2.6	1.9	3.3
Tropical savannahs and grasslands	50	39	61	2.6	2.1	3.2
Temperate grasslands and shrublands	22	18	25	2.0	1.7	2.3
Deserts	17	15	20	0.7	0.6	0.7
Tundra	2	2	3	0.3	0.2	0.4
Croplands	40	31	49	2.7	2.1	3.2
Wetlands	2	1	2	1.9	1.5	2.3
Total	442	343	539	3.5	2.7	4.2

66. Prentice, I. C. *et al.* in *Climate Change 2001: The Scientific Basis* (eds Houghton, J. T. *et al.*) 183–237 (Cambridge Univ Press, 2001).

67. Beer, C. *et al.* Terrestrial gross carbon dioxide uptake: global distribution and covariation with climate. *Science* **329**, 834–838 (2010).