

Extended Data Table 1 | Estimates of total ecosystem carbon for the globe and discriminated per biome

Biome type	Total stocks (PgC)			Carbon density (kgC m ⁻²)		
	Mean	P 2.5	P 97.5	Mean	P 2.5	P 97.5
Tropical forests	702	573	899	35.0	28.6	44.8
Temperate forests	292	235	382	23.4	18.8	30.6
Boreal forests	505	431	696	34.2	29.2	47.1
Tropical savannahs and grasslands	338	257	467	17.7	13.4	24.4
Temperate grasslands and shrublands	182	145	239	16.7	13.3	22.0
Deserts	250	189	346	9.4	7.1	13.0
Tundra	156	106	186	20.5	14.0	24.5
Croplands	362	279	494	23.9	18.4	32.6
Wetlands	20	15	27	21.1	16.3	28.6
Total	2807	2252	3662	22.0	17.7	28.7

Estimates of total ecosystem carbon per biome. Biomes defined according to Prentice *et al.*⁶⁶ as in Beer *et al.*⁶⁷. The ranges report the 2.5th (P2.5) and 97.5th (P97.5) percentiles from each ensemble member aggregated by biome.

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).