

Table 1 | Total ecosystem turnover times of carbon for the globe, per biome

Biome type	τ (yr)		
	Mean	P 2.5	P 97.5
Tropical forests	14.2	11.6	18.2
Temperate forests	23.5	18.9	30.8
Boreal forests	53.3	45.4	73.4
Tropical savannahs and grasslands	16.0	12.2	22.1
Temperate grasslands and shrublands	41.3	32.8	54.6
Deserts	36.3	27.6	49.9
Tundra	65.2	44.7	78.0
Croplands	22.1	17.0	30.1
Wetlands	19.7	15.2	26.7
Total	22.5	18.1	29.4

Total ecosystem turnover times of carbon per biome, estimated using equation (1) and stocks and fluxes aggregated per biome. Data estimates of τ were aggregated by biomes defined previously (Extended Data Table 1), and the ranges reported are the 2.5th (P 2.5) and 97.5th (P 97.5) percentiles from the ensemble of τ estimates, which can be interpreted as the confidence intervals in these estimates. The total represents the global τ including all biomes.