

AP Ballantyne *et al.* – Supporting Information

WebTable 1. Important carbon-cycle processes and the scales at which they are measured

Scale (units)	Gross primary production	Net primary production	Net exchange	Total respiration
Global (Pg C/year) ^a	Gross global production (GGP)	Net global production (NGP)	Net global exchange (NGE)	Total global respiration (TGR)
Terrestrial (Pg C/year)	Gross terrestrial production (GTP)	Net terrestrial production (NTP)	Net terrestrial exchange (NTE)	Total terrestrial respiration (TTR)
Biome (Tg C/year) ^b	Gross biome production (GBP)	Net biome production (NBP)	Net biome exchange (NBE)	Total biome respiration (TBR)
Ecosystem (g C/m ² /year)	Gross ecosystem production (GEP)	Net ecosystem production (NEP)	Net ecosystem exchange (NEE)	Total ecosystem respiration (TER)

Notes: proposed revision to terminology describing net and gross carbon (C)-cycle processes at various scales. ^aPg: petagram (equivalent of 10¹⁵ g of C); ^bTg: teragram (equivalent of 10¹² g of C).