

Variable / Process	Definition	Unit
x	proportion of mitigators in population	1
C_{at}	deviation of atmospheric CO2 (from pre-industrial 1800)	GtC
C_{oc}	deviation of CO2 in ocean	GtC
C_{veg}	deviation in CO2 in vegetation	GtC
C_{so}	deviation in CO2 in soil	GtC
T	deviation in temperature	K
$\epsilon(t)$	CO ₂ emissions in absence of mitigation	GtC/yr
P	carbon uptake from photosynthesis	GtC/yr
R_{veg}	respiration from vegetation	GtC/yr
R_{so}	respiration from soil	GtC/yr
F_{oc}	flux of CO2 from atmosphere to ocean	GtC/yr

Table 1: Labels for state variables and dynamic processes in the socio-climate model.