Example

Abstraction



x(t) = s(x,t) - c(x,t)x(t)

Nonlinear kinetics

$$x(t) = BU(t) - A(t)KX(t)$$

Globally Fixed value

Static vegetation distribution

Fixed value with vegetation type

f(trait)

f(PFT)

f(DV)

Level of complexy

- Mass balance, Rate heterogeneity Time-dependent drivers
- 2 Plant allocation, Environmental modifier, Donor pool-controlled transfer
- Mortality rate varies with plant functional type (PFT)
- Mortality rate varies with dynamic vegetation (DV), such as ED, PPA, FATES
- Connecting plant and microbial traits to rate of mortality or decomposition