

Equations 8A-8C: a three-component mixture model

$$\begin{aligned}\log(cR_k) &\sim \text{Gamma}(a, s_k) \\ \log(G_k) &\sim \text{Gamma}(a, s_k) \\ s_k &\sim \text{Gamma}(a_0, \gamma)\end{aligned}\tag{8A}$$

$$\begin{aligned}\log(cR_k) &\sim \text{Gamma}(a, s_{R_k}) \\ \log(G_k) &\sim \text{Gamma}(a, s_{G_k}) \\ s_{R_k} &\sim \text{Gamma}(a_0, \gamma_{R1}) \\ s_{G_k} &\sim \text{Gamma}(a_0, \gamma_{G1})\end{aligned}\tag{8B}$$

$$\begin{aligned}\log(cR_k) &\sim \text{Gamma}(a, s_{R_k}) \\ \log(G_k) &\sim \text{Gamma}(a, s_{G_k}) \\ s_{R_k} &\sim \text{Gamma}(a_0, \gamma_{R2}) \\ s_{G_k} &\sim \text{Gamma}(a_0, \gamma_{G2})\end{aligned}\tag{8C}$$