$$N_{\mathrm{tot}} = 580K$$
,  $N_{\mathrm{init}} = 100$ ,  $N_{\mathrm{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_{\mu} = 0.0$ ,  $\sigma_{\beta} = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_{\rho} = 0.01$ ,  $\beta_{\mathrm{scaling}} = 1.0$ ,  $\alpha_{\mathrm{gemixing}} = 1.0$ ,  $\alpha_{\mathrm{gemixing}} = 1.0$ ,  $\alpha_{\mathrm{gemixing}} = 1.0$ 

