

$t_{\max}=1000$, $dt=0.1$, $K=1000$, $N_0=1000$,
 $\sigma_0=0.1$, $x_{\text{mean}0}=0.0$, $C=0.5$, $b_r=1$,
 $d_r=1$, $d_e=2$, $\beta=0$, $\mu=1$, $\sigma=0.01$, $\tau=0.28$,

