beta=0.455717,sigma=0.98519,gamma=0.2386,hp=0.02071,hcr=0.0313,pc=0.07767,pd=0.04177,pcr=0.244847,s=0.74,t=0.89 S_0=999982,E_0=9,I_0=9,R_0=0,H_0=0,C_0=0,D_0=0

