## Both RK4 and MC simulation of SIRS model a=a(t), b=1, c=0.5, d=0.1, dI=0.5, e=0.3, a=a(t), b=2, c=0.5, d=0.1, dI=0.5, e=0.3, $\sigma_I = 56.99$ $\sigma_R = 93.17$ $-\sigma_R = 129.49$ S MC People in category 300 I MC R MC 400 200 200 100NR 0 30 10 20 a=a(t), b=3, c=0.5, d=0.1, dI=0.5, e=0.3, a=a(t), b=4, c=0.5, d=0.1, dI=0.5, e=0.3, category 10 1250 1250 -1000 NR People in 750 -750 -500 -500 250 250 30 20 40 10 20 30 Time Time