Figure S4. Simulated future projections of the local coral community: In A) are the number of infected corals, and in B) is the total community size of live corals. The simulated projections in red are equivalent to those in Figure 6 of the main text (where we used the exact values of estimated c(1),c(2)...,c(11)), and in green are an example where we allowed each of the parameters c(1),c(2)...,c(11) to vary uniformly +/-2.5% from their original estimated values. We found the results to be
equivalent demonstrating the robustness of our described patterns under mild parameter variation. To make this clearer, we show here a close up of the projections from year 25 to year 75. As in Figure 6, the simulations in panels a, b and c relied on the demographic scenario of constant influx of recruits (64 recruits per year), while in panels d, e and f, they rely on the scenario of free-space regulation of recruitment (see Materials and Methods). Panels a and d are based on the SST time-series measured between June 2006 and May 2007 recurrently from year to year in the corresponding months. Based on this time-series, we generate future projections by adding 0.5°C (panels b and e) and 1°C (panels c and f) to the SST of each month. In these simulations we allow each new recruit to settle randomly anywhere on the 10×10 m plane.