



Fig. 11. When the living bridge (see Fig. 10) is completed, in this example at the time indicated by the vertical arrow, workers crossing over the bridge to the new terrain begin to lay odor trails and to recruit nestmates, resulting in a rapid increase in the number of ants approaching the bridge

when defecating. Although a slight gradient of decreasing density ran from the bridge exit to the far end of the arena, the spots were distributed essentially at random; over large portions of the arena, their locations proved to be Poisson distributed.

When bare areas were created within the home range, the workers increased the rate of deposition in these locations until the concentration of fecal material once again approached that in the immediately surrounding area. In a series