

Weekly report

1 My Goals from last week

- Complete Mathematica Demonstration for DH parameters
- Create histograms of simulated mosquito distributions

2 My Accomplishments this week

- Completed draft of Mathematica demonstration for DH parameters
- Generated histograms of mosquito distributions across 100 trials
- Created plots for histogram statistics - figures 1 through 3
- Started studying Srikanth KVS' code for waypoint path-planning with a view to applying it to the mosquito population

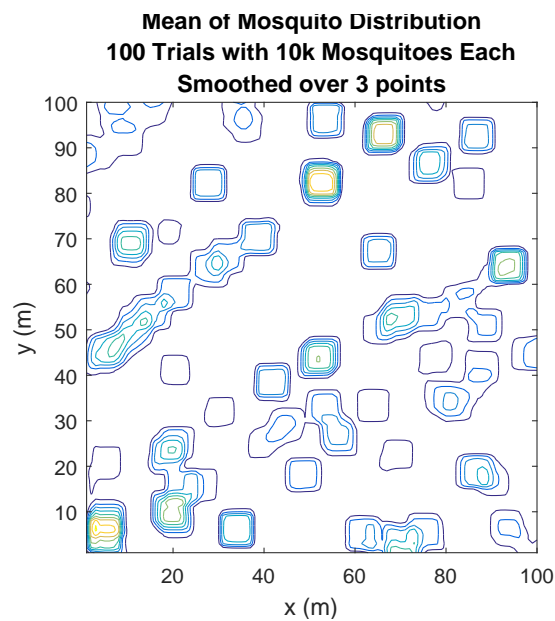


Figure 1: Contour plot of the mean of the histograms calculated from 100 iterations of the simulation and smoothed over three points.

3 My Goals for next week

- Complete Mathematica Demonstration for DH parameters
- Enjoy the Ozarks

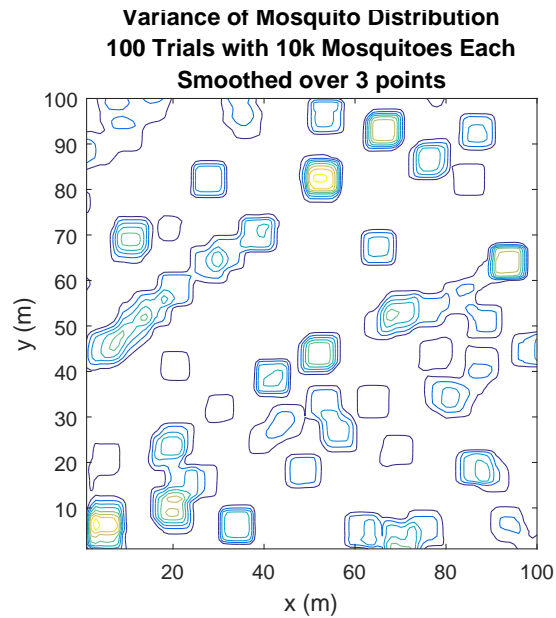


Figure 2: Contour plot of the variance of the histograms calculated from 100 iterations of the simulation and smoothed over three points.

4 Meeting with Dr. Becker TBD

We will meet via Skype but have no meeting scheduled at present.

I need Dr. Becker to review the Mathematica demonstration and send me his edits, preferably by midday Thursday so that we have time for a second round of edits before Friday.

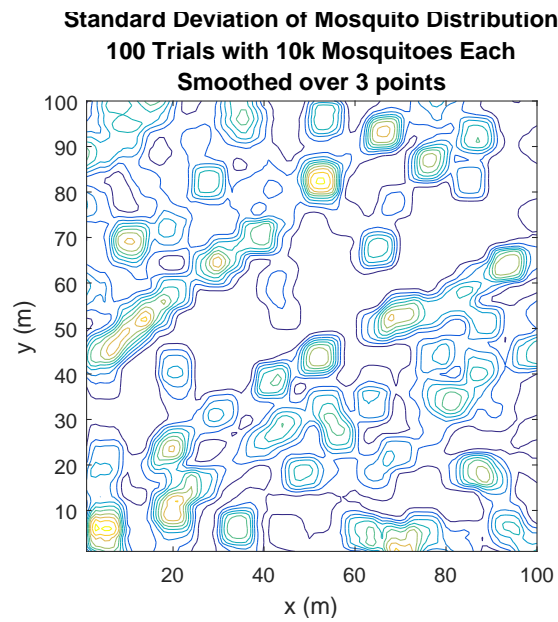


Figure 3: Contour plot of the standard deviation of the histograms calculated from 100 iterations of the simulation and smoothed over three points.