**Questions for Ace**

- Would you be able to take me through the basic running of the program?

- What are the outputs that are given at each specified time interval? Am I writing them to a file correctly? What do each of the columns represent?

- Can I have a Mathematica file that I can use?

- What sort of Gillespie algorithm are you using here to increment time, and choose the reaction? Is there a reference to a paper I could read here? Note to self

-The time seems to be incremented by –log(1-dd). How does this work?

* What is the reason behind splitting the whole region up into large sub-regions, then doing things at this level?

- Why do we need sample points?  
- What does the variable house\_dense in the struct 'sample' do?  
  
- What is the difference between to.breed\_e and to.breed\_w? They both  
hold some overall totals of breedsites, but it is unclear what the  
distinction is between them.

- What does the modulo function do?

**Further work**

**-** How would you see the adding the modelling of seasonality within the existing framework? Would it simply be to make the number of breeding sites depend cyclically on time?