*Background info:*

* PP data only
* Trying to look at whether PP survival is different in controls versus krat exclosures
* Currently divided into two different time chunks: before PBs enter the system and after PBs have invaded the system
* We think PBs change how much PPs like controls vs krat exclosures, so I’m also interested in how the probability of transitioning between those two states might change given the two time chunks
* My model is written as time independent, with time being included only in terms of the data being separated into two chunks
  + Basically, if I include time in the model, it explodes

*Parameters I want:*

Survival in state A (control plots)

Survival in state B (krat exclosures)

Probability of transitioning from A -> B

Probability of transitioning from B -> A

*Additional parameters currently included that I don’t need:*

Survival in state C (full removal plot)

Probability of transitioning from A -> C

Probability of transitioning from B -> C

Probability of transitioning from C -> A

Probability of transitioning from C -> B

*Current code:*

See attached

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table 1. Summary of RMark population-level analyses for *C. penicillatus* before and after *C. baileyi’s* full infiltration into the system. Apparent survival is per treatment type and transition probability is the probability of moving from a given treatment type to the other (pre-infiltration: *N* = 458; post-infiltration: *N* = 4895). | | | | |
|  |  | |  | |
| **Time Period** | **Apparent Survival *(SE)*** | | **Transition Probability *(SE)*** | |
|  |  |  |  |  |
|  | ***Control*** | ***Exclosure*** | ***Control to Exclosure*** | ***Exclosure to Control*** |
|  |  |  |  |  |
| ***Pre-infiltration*** | 0.842 *(0.009)* | 0.853 *(0.008)* | 0.028 *(0.006)* | 0.037 *(0.006)* |
| ***Post-infiltration*** | 0.821 *(0.004)* | 0.832 *(0.005)* | 0.012 *(0.001)* | 0.016 *(0.002)* |
|  |  |  |  |  |