What was your study design at the beginning?

Robust design – abundance and apparent survival

Apparent survival probably fine because you can use it as a nuisance parameter to really get at N.

Leave out partially marked individuals, for now.

Occasions needed for survival = 3. Occasions needed for immigration/emigration = 4?

Data organization – 1 and 0 for encounter history. Maybe 1/0 for life stage, sex, although RMark may do that for you.

Draw out robust design and p\*.

Assumptions: closed vs open. No tag loss/misidentification. Sample representative of population. Geographic closure or apparent survival is a combination of survival/immigration/emigration.

RMark with missing covariates? I’m not sure it will work. Will want to do Bayesian