WILD 595-1

Introduction to JAGS and Bayesian CJS

In lab today we will explore running models in JAGS. R code has been provided that hits the key points of running models in JAGS. We will also introduce a Bayesian formulation of the CJS model using conditional Bernoulli trials and the complete data likelihood.

1. Review the R code provided to understand what each step does.
2. Run the R/JAGS code. Review the output from JAGS. What information does the summary table provide?
3. Run mcmcplot() on the JAGS output. What information do the plots provide?
4. Change the prior distributions used in the CJS model. How does that affect the results? Try some extreme distributions.
5. Incorporate sex, time and flood effects into the CJS model for dippers. What did you need to change in your code?