

A MIGRATION MODEL WITH TAG LOSS

L. Cowen^{†1}, C.J. Schwarz²

¹*University of Victoria, Victoria, Canada*

²*Simon Fraser University, Burnaby, Canada*

[†] E-mail: *lcowen@math.uvic.ca*

Quantifying the migration of animals is of interest to biological scientists studying movement patterns. Mark-recapture studies can be used to model migration between different strata. We use a Poisson multi-state mark-recapture model to estimate migration, survival, tag loss, exploitation and reporting rate parameters. This model is applied to yellowtail flounder on the Grand Banks of Newfoundland, Canada.