*A Birds captured during migration*

In the vast majority of states, we captured birds during either the breeding or the wintering season, so we could be relatively certain that birds captured would enter the HMM in a pre-migration state. However, birds captured in Virginia and Maryland were sometimes captured either late in the fall migratory season (date tk – date tk) or early in the spring migratory season (date tk – date tk). In these cases, where we could not be certain whether a particular bird entered the HMM in a pre-migration or a migration state, we allowed the HMM to estimate the initial state of the model instead of having it be set to premigratory. We only allowed this to happen for birds captured in Virginia and Maryland.

Birds captured during migration, etc.

Bug fix to remove long-distance loops in interpolated points when the length of the loop created by points is >10x the distance between the two observed points

*1 Mortality handling*

We removed dead birds from the dataset using methods outlined in Appendix (tk).

*2 Individual exceptions*