This read me provides information about the parameters used in input files for CARMMHA modeling papers.

These files are all referring to common bottlenose dolphins *Tursiops truncatus*

File: BaselineSurvSIdata.txt

This file provides information about how likely an animal is to be identiphied in a photo

* CatalogID - An individual dolphin’s identification number in the location’s catalog
* FB - An individual dolphin’s alphanumeric identifier
* AgeCap - the age of the animal when captures
* Marked -an indicator variable taking the value 1 if the animal had scars that could be used to photo-ID it, and 0 otherwise

This file is used in SurvivalReduction.Rmd to obtain the file pmaked (described below) which includes the probability of an animal being marked, and hence able to be included in the mark-recapture estimate.

File: pmarked.csv

This file provides 4,000 iterations of the probability of an animal being marked, and hence included in the mark-recapture study, for each age class. There are 60 age classes (the columns). Each line is an iteration. This file is created within file SurvivalReduction.Rmd

File: var\_female 15May2020.csv

This file provides 4,000 iterations of the parameters of a Siler model (a1, a2, a3, b1, b3) for common bottlenose dolphin females. rmean represents . each line corresponds to an iteration.

File: var\_male 15May2020.csv

This file provides 4,000 iterations of the parameters of a Siler model (a1, a2, a3, b1, b3) for common bottlenose dolphin males. rmean represents . each line corresponds to an iteration.

File: BaselineSurvival.csv

This is a single column with 4,000 values of baseline survival for common bottlenose dolphins. These are obtained from parameters of the Siler model.