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Supplement

Computer code and data for implementing the reversible jump Markov chain Monte Carlo algorithm for the multi-state random walk model.

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File list

RJMCMC.r

RJMCMC.c

RJMCMC.dll

seal908_data.RData

initial_values.RData

Description

RJMCMC.r contains R code for loading the data (seal908_data.RData and initial_values.RData), data pre- and post-processing, loading the dynamic link library file (RJMCMC.dll), and calling the .C function for interfacing the C code (RJMCMC.c) with R (on a machine running Windows).

RJMCMC.c contains C code for implementing the reversible jump MCMC algorithm for the multi-state random walk model.

RJMCMC.dll is a dynamic link library file containing the compiled C code.

seal908_data.RData contains the observed locations and times for grey seal #908.

initial_values.RData contains starting values for initialization of the MCMC chain.