

TAKING INDIVIDUAL HETEROGENEITY IN MORTALITY RISKS INTO ACCOUNT IN DEMOGRAPHIC
STUDIES OF WILD ANIMAL POPULATIONS: DEVELOPMENT AND USE OF STATISTICAL MODELS

BRIEF REPORT

Emmanuelle Cam¹

Russell Alpizar-Jara²

João Monteiro²

- ^{1.} Laboratoire Evolution et Diversité biologique, Bâtiment 4R3, Université Paul Sabatier, 118 route de Narbonne, 31062 Cedex 09 France
- ^{2.} Departamento de Matemática e Centro de Matemática e Aplicações da Universidade de Évora, Rua Romão, Romalho 59, 7000-671 Évora, Portugal.

The Cormarck-Jolly-Seber model incorporating frailty implemented in WinBUGS, using the 9000 kittiwake's dataset monitorized during 22 years, showed that the convergence is very low over computational view. We developed different kind of multistate model, considering independence/dependence between random effect of breeding and survival probability. The last part of the work was dedicated to model selection with Bayesian framework.