

Reproductive seasonality and partial semelparity in a population of *Gracilinanus agilis* in the Brazilian Caatinga

Mammalian Biology

Viviane Morlanes^{a,b}, Simone Santoro^{c,d}, Carlos Rouco^e, Cecilia Calabuig^{*f}

^a Postgraduate Program in Animal Science, Federal Rural University of the Semi-Arid Region (UFERSA), Mossoró, RN 59625-900, Brazil.

^b Institute of Postgraduate Studies in Natural Resources and Sustainable Management, University of Córdoba, Spain

^c Department of Integrated Sciences, Faculty of Experimental Sciences, University of Huelva, Huelva, Spain

^d Department of Natural Sciences and Environmental Health, University of South-Eastern Norway, Bø, Norway.

^e Departamento Biología Vegetal y Ecología, Área de Ecología, Universidad de Sevilla, Sevilla, Spain.

^f Laboratory of Ecology and Wildlife Conservation, Center for Biological and Health Sciences, Federal Rural University of the Semi-Arid Region (UFERSA), Mossoró, Brazil.

*Corresponding author: Cecilia Calabuig – cecicalabuig@ufersa.edu.br

ESM 3 Final model-selection step combining the supported structures for apparent survival (ϕ) and the transition (ψ). Notation as in Table 1; the most supported model in bold.

Model	Structure	np	Deviance	AICc	$\Delta AICc$
1	$\phi(\text{br}) \psi(\cdot)$	7	720.91	735.32	0.00
2	$\phi(\text{br}) \psi(\text{sex})$	8	720.16	736.69	1.37

3	$\varphi(\cdot) \psi(\cdot)$	6	724.75	737.06	1.74
4	$\varphi(\cdot) \psi(\text{sex})$	7	723.62	738.03	2.71