SUPPLEMENTARY MATERIAL

Fire and grass cover influence occupancy patterns of rare rodents and feral cats in a mountain refuge: implications for management

Peter J. McDonald<sup>A,B,E</sup>, Alistair Stewart<sup>A</sup>, Andrew T. Schubert<sup>C</sup>, Catherine E. M. Nano<sup>A</sup>, Chris R. Dickman<sup>B</sup> and Gary W. Luck<sup>D</sup>

<sup>A</sup>Flora and Fauna Division, Department of Land Resource Management, PO Box 1120, Alice Springs, NT 0871, Australia.

<sup>B</sup>Desert Ecology Research Group, School of Biological Sciences, University of Sydney, New South Wales 2006, Australia.

<sup>C</sup>Desert Wildlife Services, PO Box 3321, Alice Springs, NT 0871, Australia.

<sup>D</sup>Institute for Land, Water and Society, Charles Sturt University, Albury, NSW 2640, Australia.

<sup>E</sup>Corresponding author. Email: peterj.mcdonald@nt.gov.au

S1. Fire history

Long unburnt
S2. Final set of models for central rock-rat

\[ \psi(.), p(.) \]
\[ \psi(.), p(\text{time}) \]
\[ \psi(\text{burn}_50), p(\text{time}) \]
\[ \psi(\text{burn}_50, \text{chewingeast}), p(\text{time}) \]
\[ \psi(\text{burn}_50, \text{chewingswest}), p(\text{time}) \]
\[ \psi(\text{burn}_50, \text{distnear}), p(\text{time}) \]
\[ \psi(\text{chewingeast}), p(\text{time}) \]
\[ \psi(\text{chewingeast}, \text{chewingswest}), p(\text{time}) \]
\[ \psi(\text{chewingswest}), p(\text{time}) \]
\[ \psi(\text{distnear}, \text{chewingeast}), p(\text{time}) \]
\[ \psi(\text{distnear}, \text{chewingswest}), p(\text{time}) \]
\[ \psi(\text{rugg100m}), p(\text{time}) \]
\[ \psi(\text{rugg100m}, \text{burn}_50), p(\text{time}) \]
\[ \psi(\text{rugg100m}, \text{chewest}), p(\text{time}) \]
\[ \psi(\text{rugg100m}, \text{distnear}), p(\text{time}) \]
\[ \psi(\text{rugg1km}), p(\text{time}) \]
\[ \psi(\text{rugg1km}, \text{burn50}), p(\text{time}) \]
\[ \psi(\text{rugg1km}, \text{chewingeast}), p(\text{time}) \]
\[ \psi(\text{rugg1km}, \text{chewest}), p(\text{time}) \]
\[ \psi(\text{rugg1km}, \text{distnear}), p(\text{time}) \]
\[ \psi(\text{rugg1km}, \text{rugg100m}), p(\text{time}) \]

Final set of models for desert mouse

\[ \psi(.), p(.) \]
\[ \psi(\text{dist}), p(.) \]
psi(dist,rugg100),p(.)
psi(heaveast),p(.)
psi(heaveast,distnear),p(.)
psi(heaveast,rugg100m),p(.)
psi(heaveast,rugg1km),p(.)
psi(heaveast,rugg1km,distnear),p(.)
psi(heaveast,rugg1km,rugg100m),p(.)
psi(idst,rugg1km),p(.)
psi(rugg100m),p(.)
psi(rugg1km),p(.)
psi(rugg1km,rugg100m),p(.)
psi(rugg1km,rugg100m,distnear),p(.)
psi(humck),p(.)
psi(humck,distnear),p(.)
psi(humck,riugg100m),p(.)
psi(humck,riugg1km),p(.)
psi(humck,heaveast),p(.)
psi(humck,heaveast,distnear),p(.)
psi(humck,heaveast,distnear,rugg100m),p(.)
psi(spin.heaveast,distnear,rugg1km),p(.)

Final set of models for cat

psi(.),p(.)
psi(.),p(humck)
psi(humck),p(humck)
psi(humck,chewingseast),p(humck)
psi(humck,chewingswest),p(humck)
psi(humck,distnear),p(humck)
psi(chewingseast),p(humck)
psi(chewingseast,chewingswest),p(humck)
psi(chewingswest),p(humck)
psi(distnear,chewingseast),p(humck)
psi(distnear,chewingswest),p(humck)
psi(rugg100m),p(humck)
psi(rugg100m, humck),p(humck)
 psi(rugg100m, chewwest),p(humck)
psi(rugg100m,distnear),p(humck)
psi(rugg1km),p(humck)
psi(rugg1km, humck),p(humck)
psi(rugg1km, chewingseast),p(humck)
psi(rugg1km, chewwest),p(humck)
psi(rugg1km, distnear),p(humck)
psi(rugg1km, rugg100m),p(humck)