

**Supplementary material 2A.** Rat abundance and density ( $\text{ind.ha}^{-1}$ ) before and after rat removal for the four sessions of rat removal trapping. The total number of individuals in the removal area was estimated with the “Zippin removal” method. Densities were estimated based on the rat removal grid size plus a boundary strip of 9 ha.

Removal session	Number of rats removed $N_{\text{removed}}$	Estimated rat abundance $Ab_r$	Number of remaining individuals	Density before removal $D_{\text{before}}$ ( $\text{ind.ha}^{-1}$ )	Density after removal $D_{\text{after}}$ ( $\text{ind.ha}^{-1}$ )
May 2015	266	$289 \pm 8.05$	$23 \pm 8.05$	$32.11 \pm 0.89$	$2.56 \pm 0.89$
July 2015	59	$72 \pm 9.06$	$13 \pm 9.06$	$8.00 \pm 1.01$	$1.44 \pm 1.01$
Sept. 2015	57	$71 \pm 9.14$	$14 \pm 9.14$	$7.89 \pm 1.02$	$1.56 \pm 1.02$
Nov. 2015	65	$70 \pm 3.86$	$5 \pm 3.86$	$7.78 \pm 0.43$	$0.56 \pm 0.43$

**Supplementary material 2B.** Rat capture probabilities (+/- SE) estimated from removal trapping with the Zippin removal method by sex, age and session.

**Adult males** – May 2015:  $p = 0.25 \pm 0.03$ ; July 2015:  $p = 0.25 \pm 0.11$ ; September 2015:  $p = 0.36 \pm 0.10$

**Adult females** – May 2015:  $p = 0.22 \pm 0.03$ ; July 2015:  $p = 0.34 \pm 0.09$ ; September 2015:  $p = 0.28 \pm 0.11$

**Juveniles** – May 2015:  $p = 0.23 \pm 0.06$ ; July 2015:  $p = 0.33 \pm 0.40$ ; September 2015:  $p = 0.18 \pm 0.25$