

Restoring the mammal fauna of Dirk Hartog Island

The first 5 years

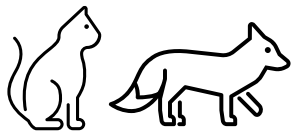


Dr Saul Cowen

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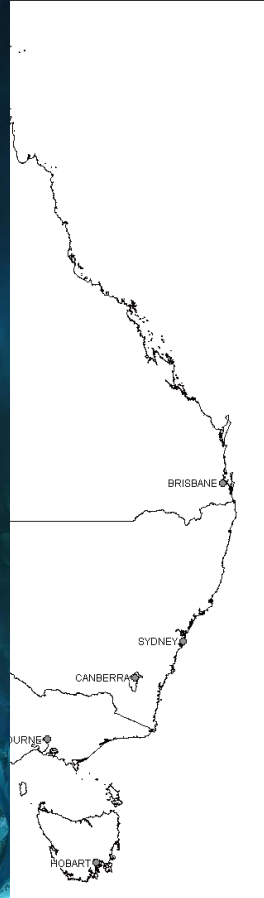
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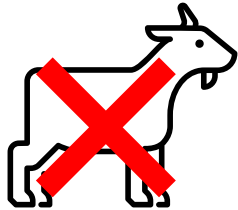
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Dirk Hartog Island NP Ecological Restoration Project

'Return to 1616'




2017

Biol Invasions
<https://doi.org/10.1007/s10530-019-01937-7>

ORIGINAL PAPER


The eradication of ungulates (sheep and goats) from Dirk Hartog Island, Shark Bay World Heritage Area, Australia

Shane Heriot · John Asher · Matthew R. Williams · Dorian Moro 

Biol Invasions
<https://doi.org/10.1007/s10530-019-02154-y>

ORIGINAL PAPER

Feral cat eradication on Dirk Hartog Island, Western Australia

D. Algar  · M. Johnston · C. Tiller · M. Onus · J. Fletcher · G. Desmond · N. Hamilton · P. Speldewinde



2018



Management ongoing

Nick Dutchon/DBCA



Keith Morris/DBCA



2017/2018



2021/2022



2017/2018/2019



DIRK HARTOG ISLAND
RETURN TO 1616



2019/2020



2019/2020/2021/
2022?



2021/2022



2022?

Banded and Rufous Hare-wallabies

Lagostrophus fasciatus / *Lagorchestes hirsutus*

Colleen Sims/DBCA



Claudia Buters/DBCA



CSIRO PUBLISHING

Australian Mammalogy

<https://doi.org/10.1071/AM20035>

Research Note

A trial of transmitter attachment in bandicoots (*Perameles bougainville*)

Western barred bandicoot (*Perameles bougainville*) proposed
translocation



Source: Australian Wildlife Conservancy 2018

Disease risk analysis (DRA)

July 2018

Rebecca Vaughan-Higgins, Simone Vitali and Andrea Reiss



Wildlife Health
Australia



Dibbler

Parantechinus apicalis



Shark Bay Mouse






Pseudomys fieldi ...no wait...*gouldii*!

Rebecca Quah/DBCA



PNAS 2021 Vol. 118 No. 27 e2021390118

**Museum genomics reveals the rapid decline
and extinction of Australian rodents since
European settlement**

Emily Roycroft^{a,b,c,1,2} , Anna J. MacDonald^{c,d} , Craig Moritz^c , Adnan Moussalli^b, Roberto Portela Miguez^e ,
and Kevin C. Rowe^{a,b} 



Rebecca Quah/DBCA

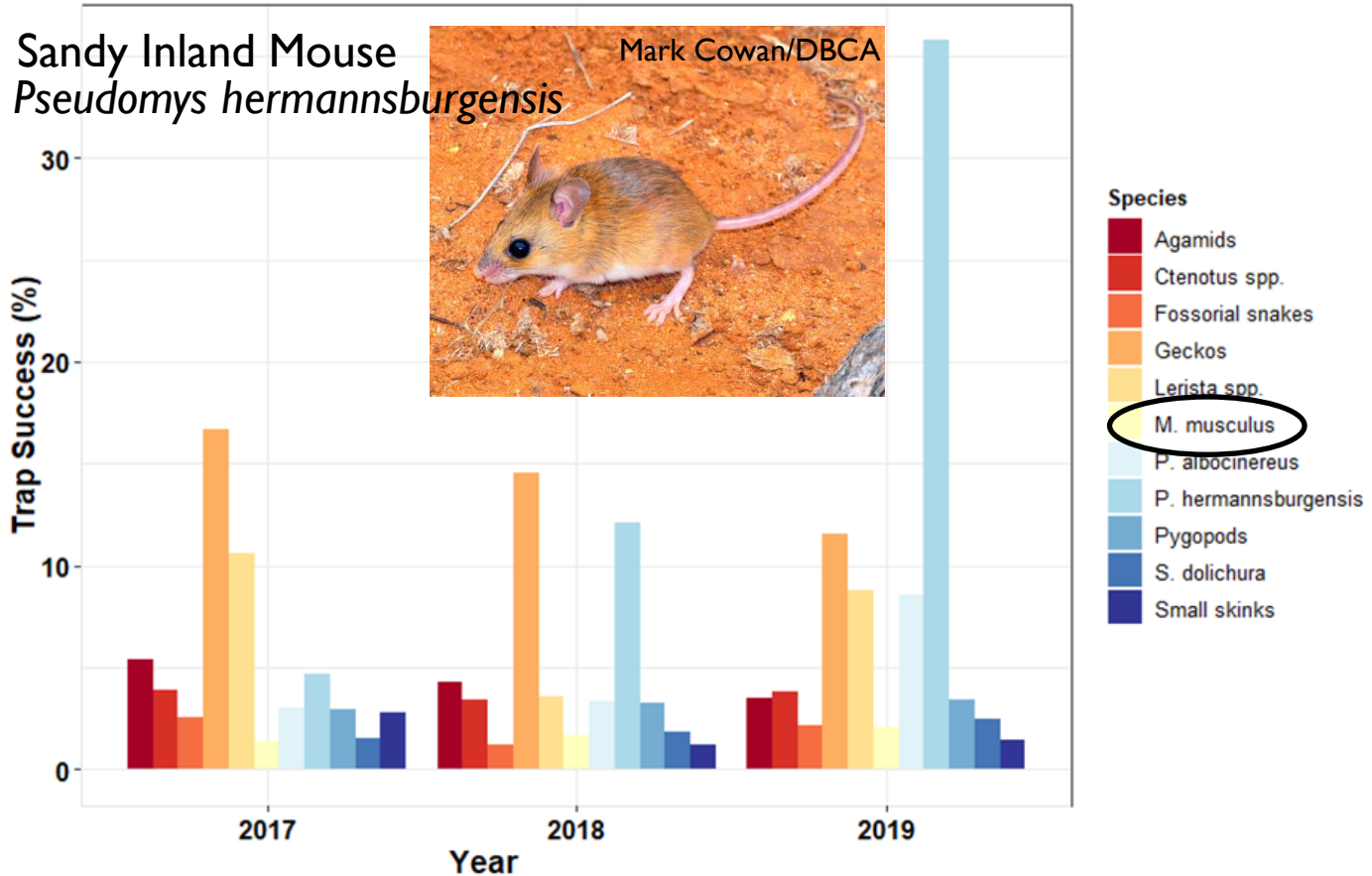
Greater Stick-nest Rat

Leporillus conditor

Steve Reynolds/DBCA





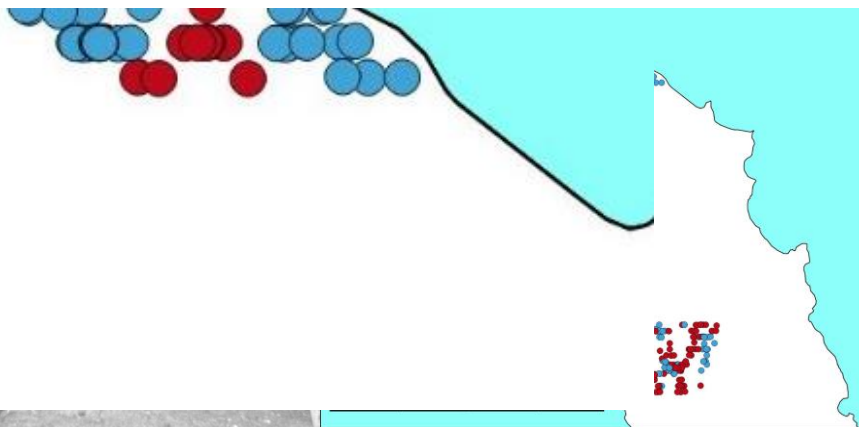
Sandy Inland Mouse *Pseudomys hermannsburgensis*

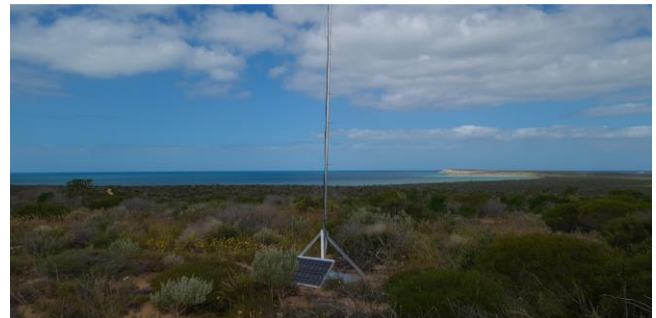
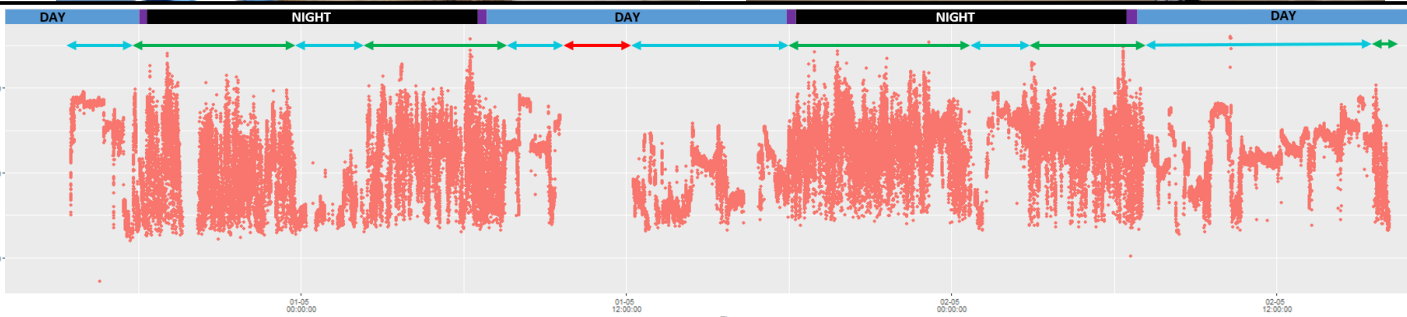
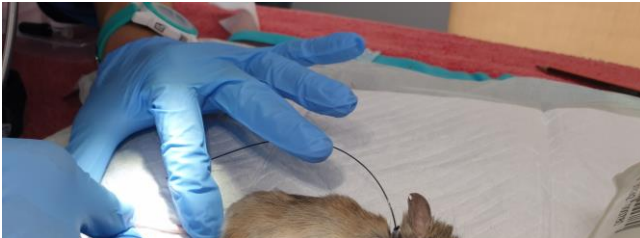




Novel microsatellites and investigation of faecal DNA as a non-invasive population monitoring tool for the banded hare-wallaby (*Lagostrophus fasciatus*)

Saul Cowen^{A,B,*} , Michael Smith^{B,C}, Shelley McArthur^A, Kelly Rayner^A, Chantelle Jackson^C, Georgina Anderson^C and Kym Ottewell^{A,D} 











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Acknowledgements

- Lesley Gibson, Colleen Sims, Sean Garretson, Kelly Rayner, John Angus, Kym Ottewell, Tony Friend, Fiona Knox and Aline Gibson Vega
- Past and present ERP staff... 
- Many other DBCA staff (including Perth Zoo)
- All our many research collaborators and students:
Zahra Aisya, Claire Bowry, Hamish Campbell, Tiarne Duselli, Michelle Hall, Carolyn Hogg, Bethany Jackson, Jason Kennington, Peta Moore, Isabelle Onley, Rebecca Quah, Tom Rasmussen, Mandy Ridley, Kylie Robert, Todd Robinson, Debbie Saunders, Michael Smith (et al!), Leonie Valentine, Rebecca Vaughan-Higgins, Kristin Warren, Daniel White, Kelly Williams
- The Wardle family and DHI Eco-lodge
- **All our amazing volunteers!**



Gorgon Barrow Island
Net Conservation Benefits Fund