

WREN ROUND-UP

THE UPS AND DOWNS OF INCORPORATING
INNOVATION INTO A TRANSLOCATION



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Department of Biodiversity,
Conservation and Attractions



Biodiversity and
Conservation Science



RETURN TO 1616
DIRK HARTOG ISLAND
NATIONAL PARK

**WE ACKNOWLEDGE THE MALGANA PEOPLE AS
TRADITIONAL OWNERS OF THE LANDS AND
WATERS OF GATHAAGUDU (SHARK BAY) AND
PAY OUR RESPECTS TO THEIR ELDERS PAST,
PRESENT AND EMERGING.**





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STAGE I

2005 - 2018

ERADICATION

> 5000 SHEEP REMOVED



~11000 GOATS REMOVED

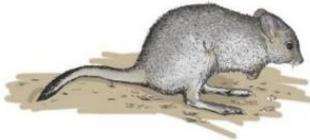


~440 FERAL CATS REMOVED





STAGE II



2017 – PRESENT



FAUNA TRANSLOCATION PROGRAM



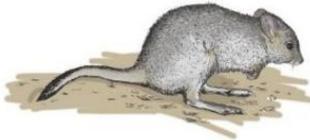


STAGE II



2017 – PRESENT

**FAUNA TRANSLOCATION
PROGRAM**



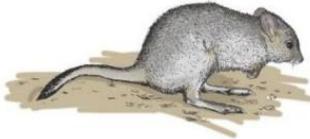


STAGE II



2017 – PRESENT

FAUNA TRANSLOCATION PROGRAM



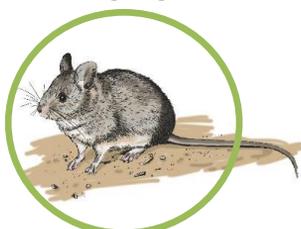
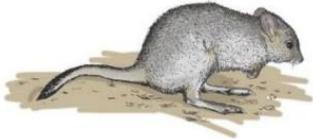


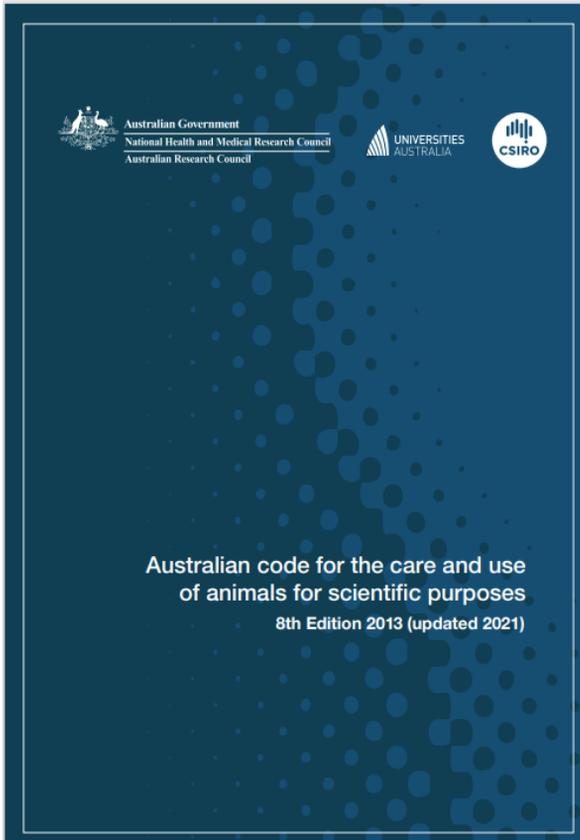
STAGE II



2017 – PRESENT

FAUNA TRANSLOCATION PROGRAM





INNOVATION IN TRANSLOCATIONS

ANIMAL WELFARE LEGISLATION

ECONOMIZING RESOURCES

Harvest site monitoring

Translocation

Release site monitoring

Currently eight species in 63,000 ha



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WESTERN GRASSWREN TRANSLOCATION

Four year PhD study to
inform the translocation



WESTERN GRASSWREN TRANSLOCATION

Four year PhD study to
inform the translocation



Two week translocation period
October 2022

Birds harvested from Hamelin
Station reserve and Peron
Peninsula



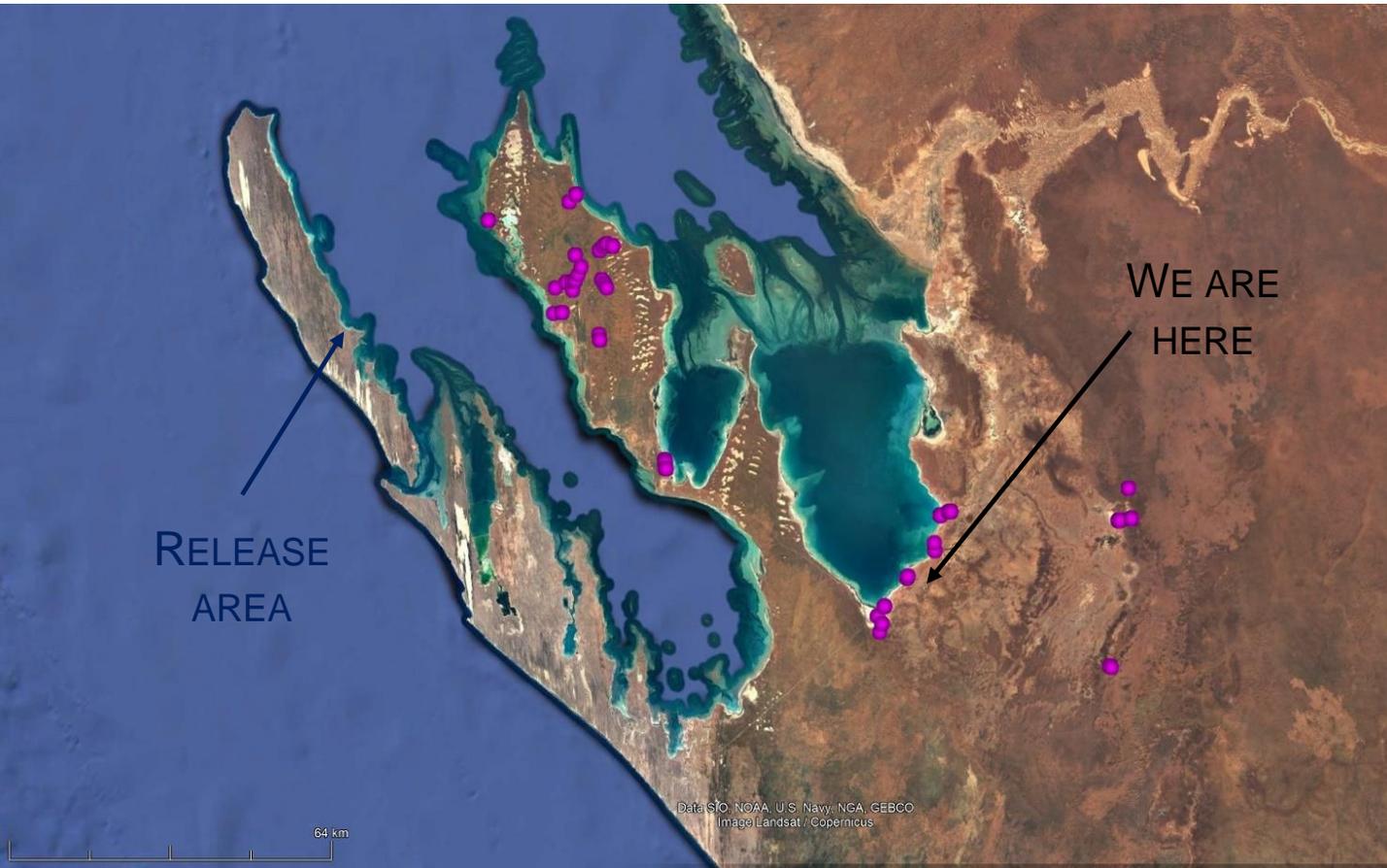
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RELEASE
AREA

WE ARE
HERE

64 km

Data: SIO, NOAA, U.S. Navy, NGA, GEBCO
Image: Landsat / Copernicus



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85 BIRDS RELEASED ON DHI

SHORT-TERM MONITORING

Radio-tracking: transmitters (0.45g) fitted
to 29 birds





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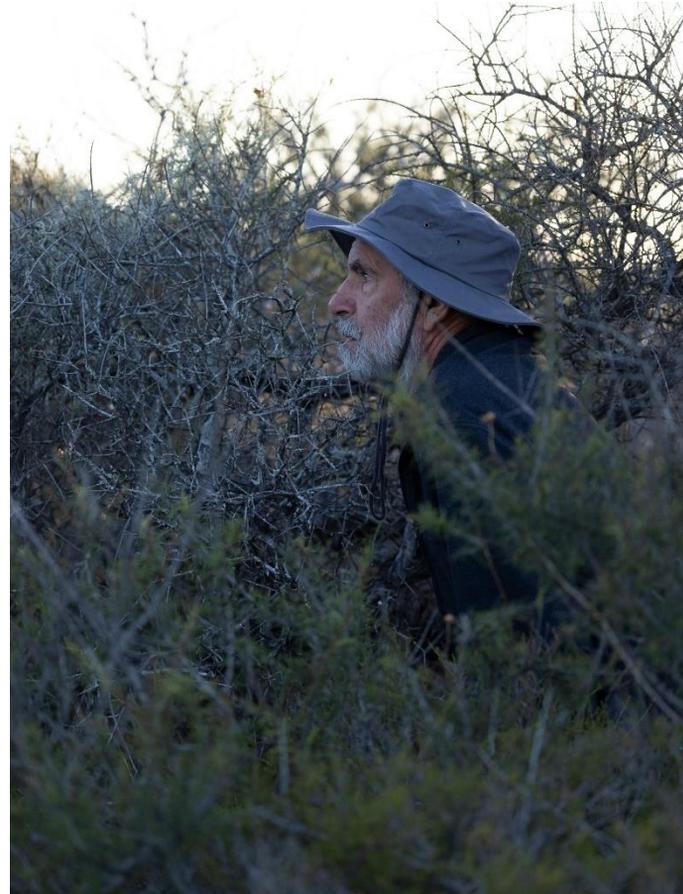


LONG TERM MONITORING

Observational studies
(e.g. point counts)

Remote cameras

Autonomous recording
units (ARUs)



IN COMPARISON.....

OBSERVATIONAL STUDIES

High quality data
High field time

vs.

ARUs

High quantity of data
High processing time



IN COMPARISON.....

OBSERVATIONAL STUDIES

High quality data
High field time



vs.

ARUs

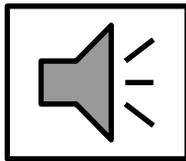
High quantity of data
High processing time



Observations can be difficult!!



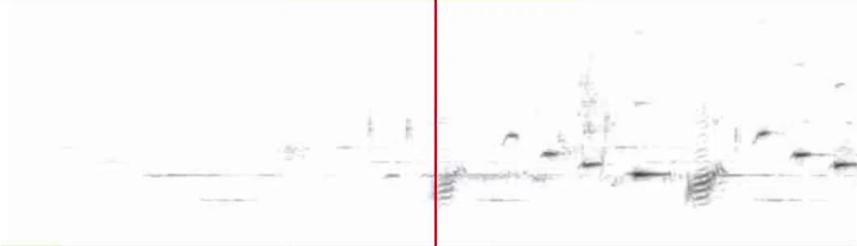
OBSERVATIONS CAN BE DIFFICULT!!



CHIMING WEDGEBILL

– “DID YOU GET DRUNK?!”

ID INFO SOUNDS MAP



00:01 / 00:23

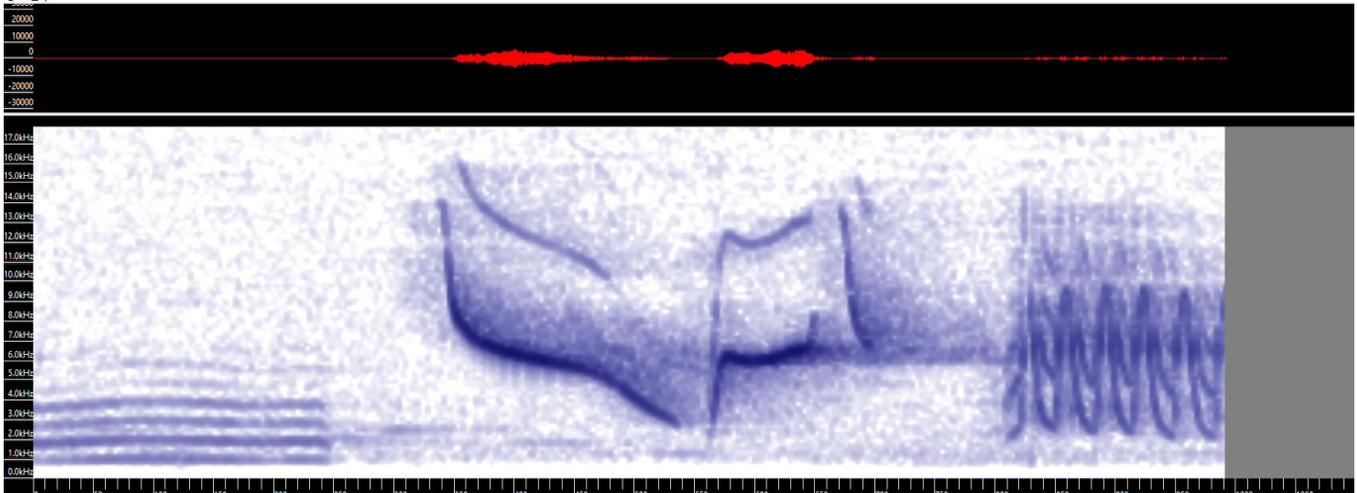
 Song

Recorded by: Tayler Brooks
Location: Western Australia, Australia, August 2019

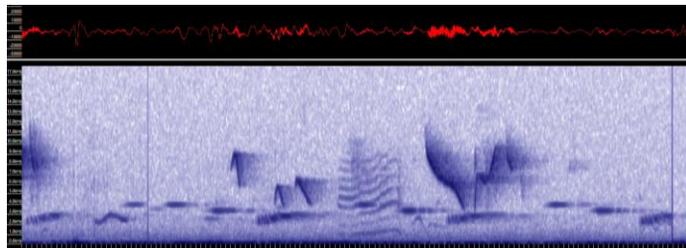
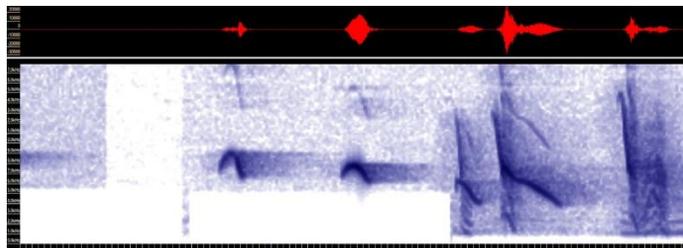
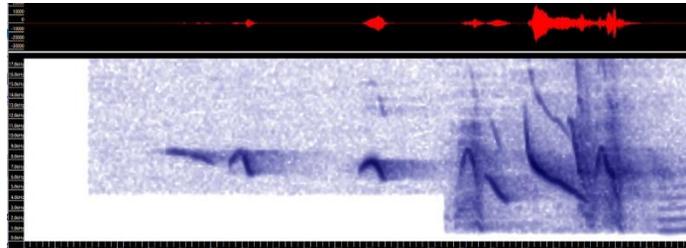
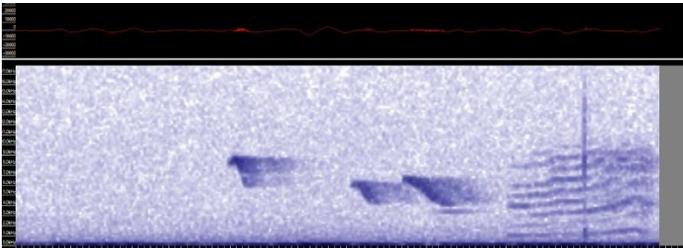
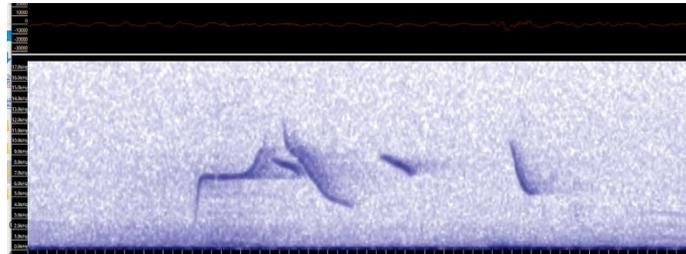
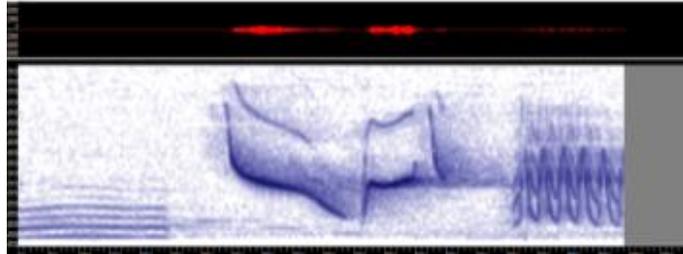


Source: Merlin bird ID

WESTERN GRASSWREN



WESTERN GRASSWREN SPECTROGRAMS





*“Sometimes the
cutting edge is
the bleeding
edge”* (Hall, 2022)



ACKNOWLEDGEMENTS

The wren wranglers

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Shark Bay District & Midwest Region staff (DBCA)

Bush Heritage Australia

Malgana Traditional Owners

The Wardle family and lodge staff

Shark Bay Aviation

Coral coast helicopters

Geomeia

IMAGE CREDITS

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Michelle Hall (BHA)

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Rebecca Quah (UWA/ECU)

Simon Welsh (Geomeia)



Did
somebody
say morning
tea?