



ENVIRONMENTAL MANAGEMENT WORKSHOP

16-18 MAY 2018

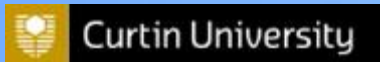


On Martu Country with Eagles.
Simon Cherriman, iNSiGHT Ornithology.

Wallu-wurru at Matuwa:



A Wedge-tailed Eagle population study



Simon Cherriman

Three Daily Questions:

“How tall are you?”

“Do you play basketball?”

How do you *catch* an EAGLE!?”



Wailitj



How did I become a Scientist? ...

- ✓ Year 12 (1 year)
- ✓ Bachelor of Science (3 years)
- ✓ Honours Degree (2 years part-time)
Study Eagles in the bush
Wrote a big assignment!



What is **Science**?

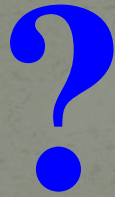
“the intellectual and practical activity encompassing the systematic study of the structure and behavior of the physical and natural world through observation and experiment”.

What is a **Scientist**?

“a person who is studying or has expert knowledge of one or more of the natural or physical sciences”.



What is **Science**?



What is a
Scientist?

A person seeking answers.



Ecosystem iNSiGHT!



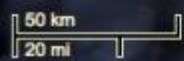
The Wedge-tailed Eagle Story



History...
~200 years ago



Today



WA: 147 237 killed (40 yrs)
Qld: 162 430 killed (15 yrs)

Photo: Estate of Jeff Carter

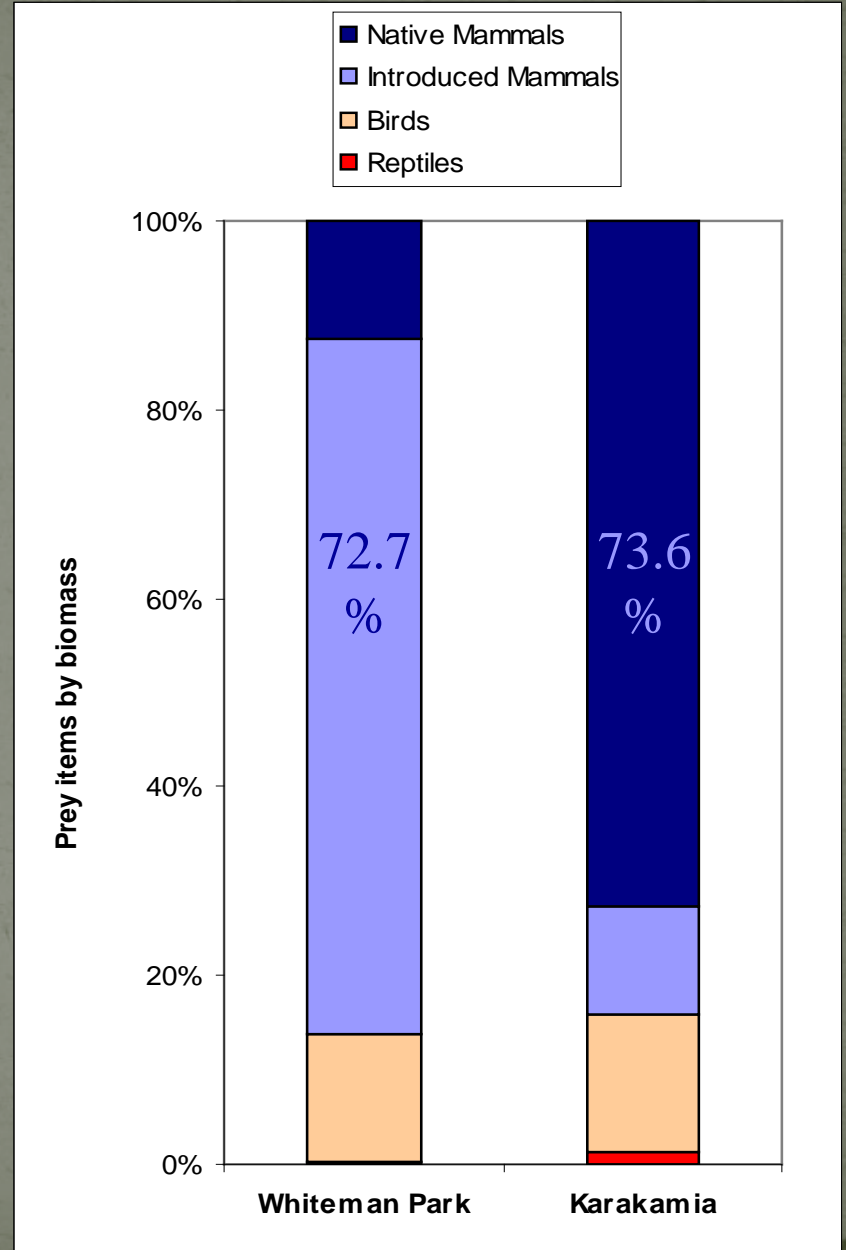


Still killed illegally, and...





Whiteman Park vs. Karakamia



2011

...



Matuwa / Lorna Glen

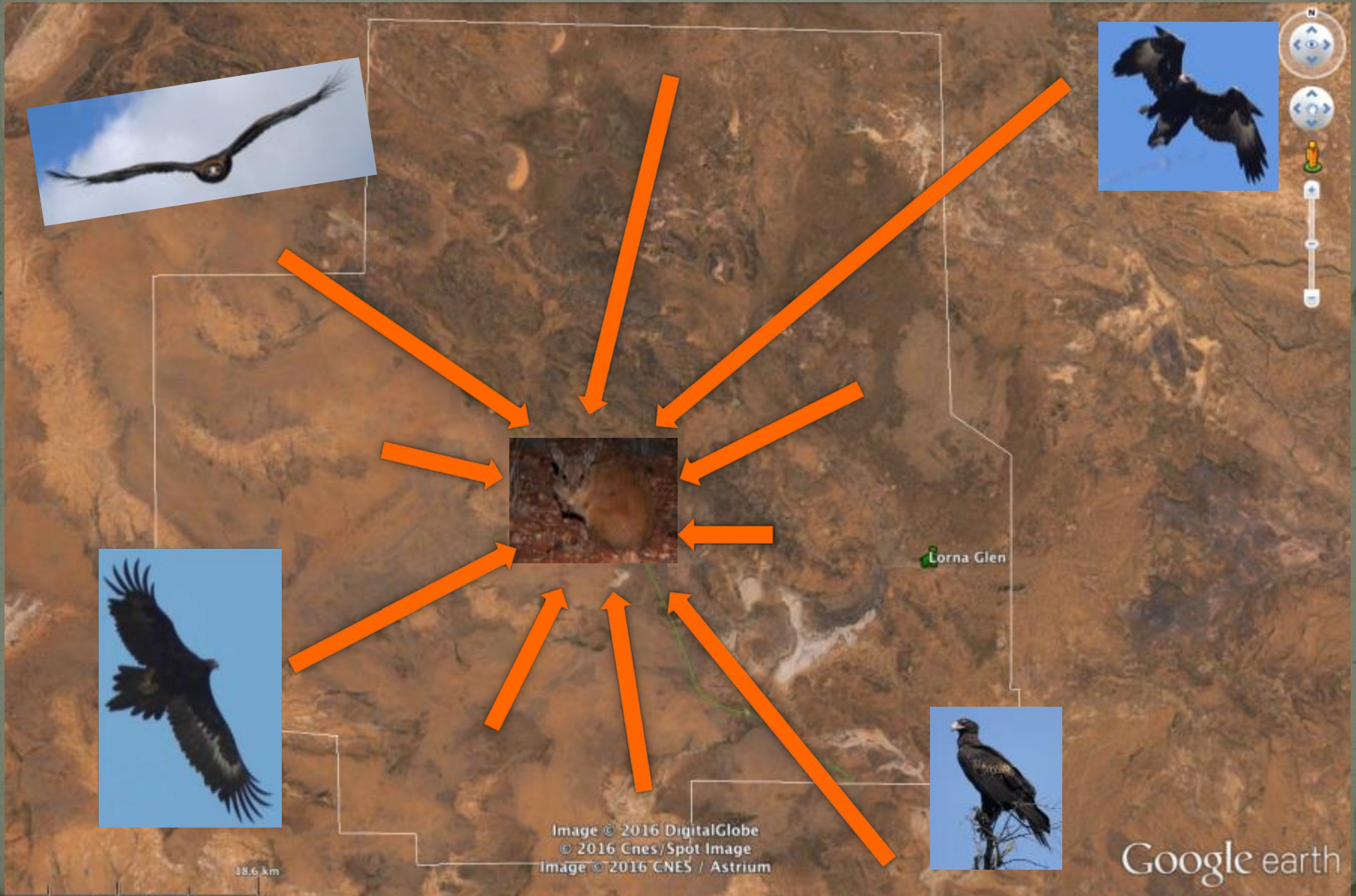
Initially:

- Eagle impact to mammals?
- Other ecological info.

... *LONG-TERM* study



1100ha



38.6 km

Image © 2016 DigitalGlobe
© 2016 Cnes/Spot Image
Image © 2016 CNES / Astrium

Lorna Glen

Google earth

Nest Searching...

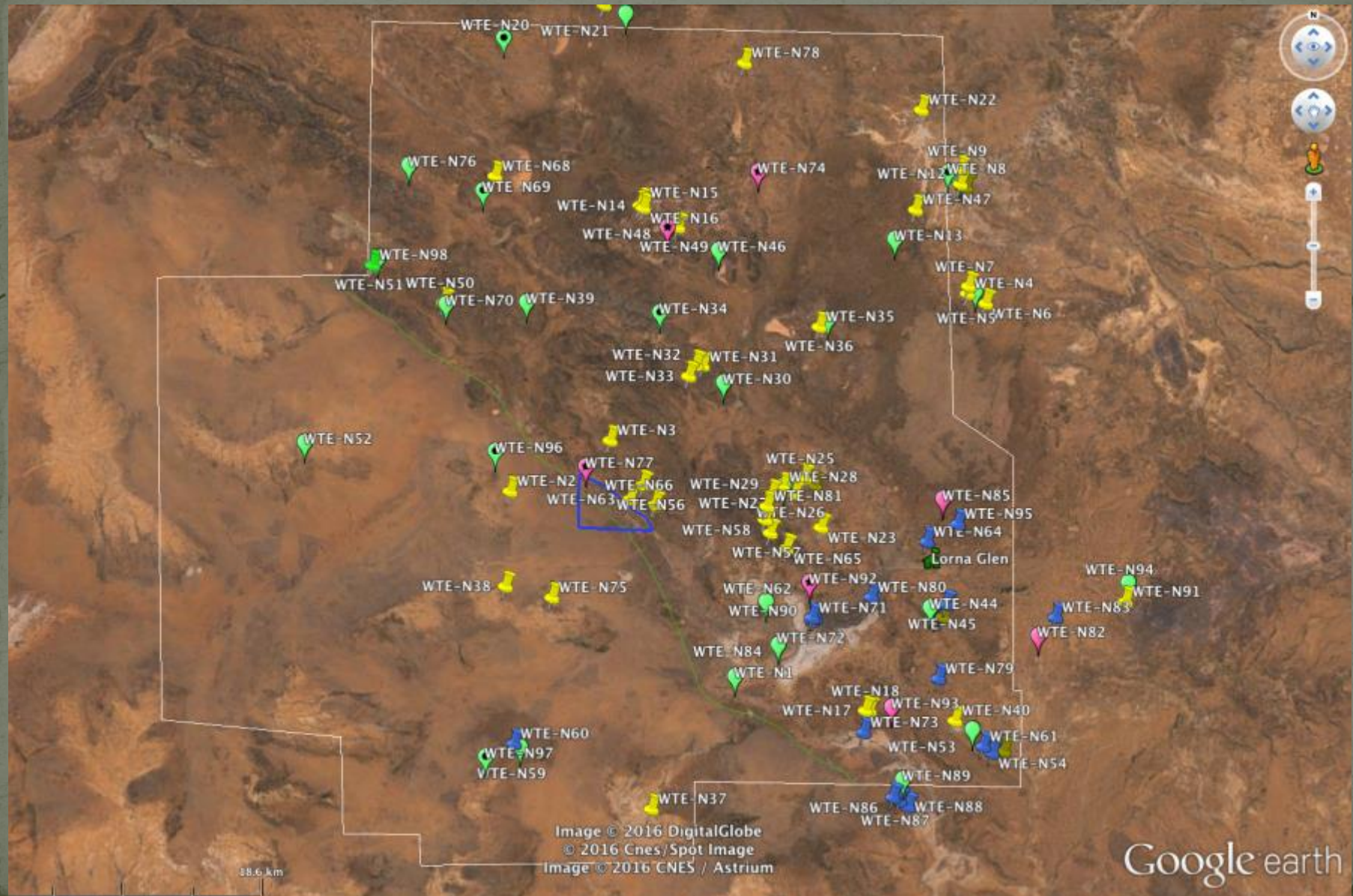




38.6 km

Image © 2016 DigitalGlobe
© 2016 Cnes/Spot Image
Image © 2016 CNES / Astrium

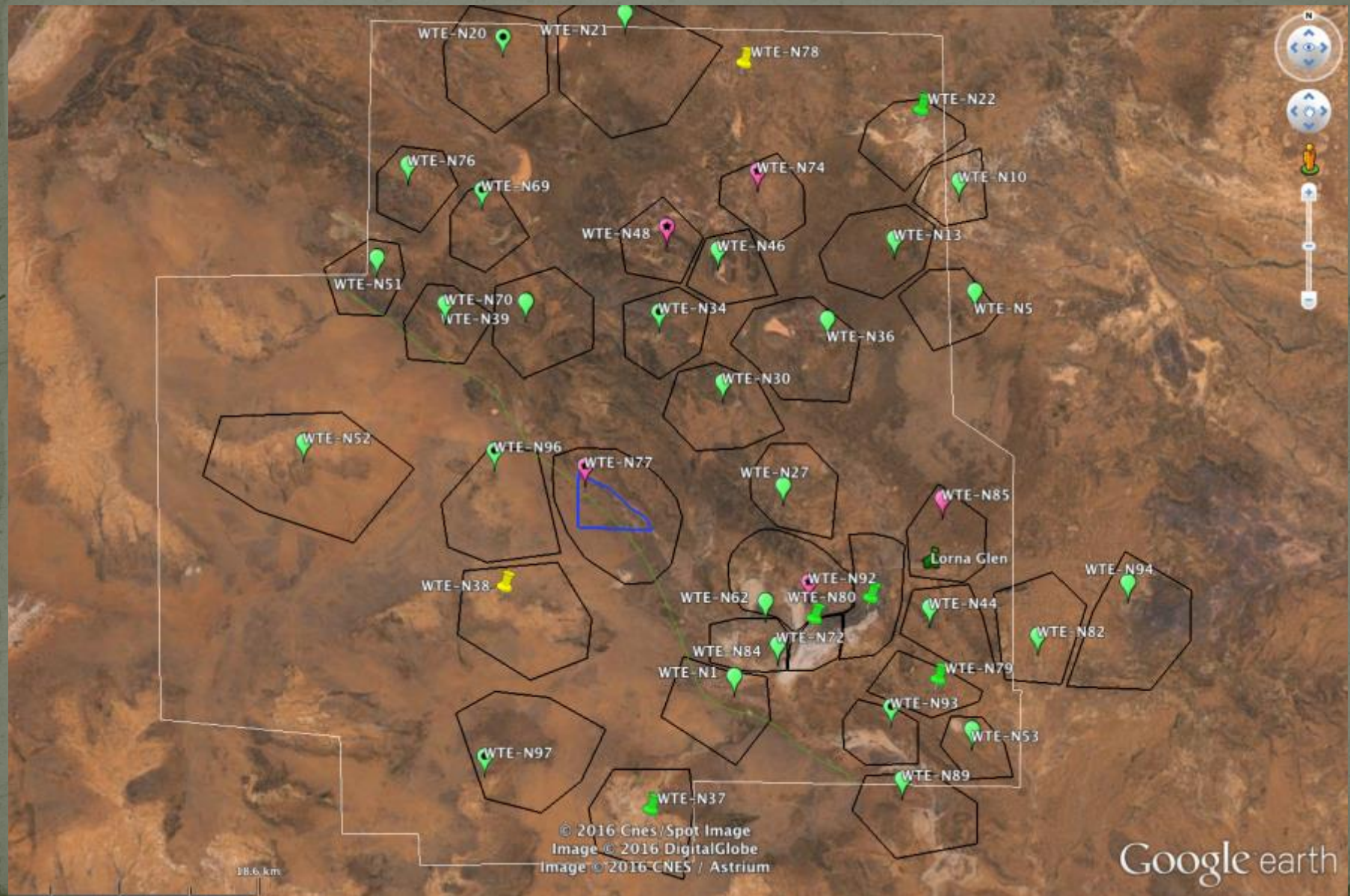
Google earth



38.6 km

Image © 2016 DigitalGlobe
© 2016 Cnes/Spot Image
Image © 2016 CNES / Astrium

Google earth



Nests

- 98 nests
- 89 in Gidgee trees (*Acacia pruinocarpa*)
- average ~ 6.5 m high



Perch Trees



Food



Favourites:



Threatened Mammals



Breeding

	Territories Occupied	Laid	Hatched	Fledged
2011*	3	1	1	1
2012	27	13	4	1
2013	30	4	3	3
2014	34	12	5	4
2015	35	9	5	4



Dispersal



Dispersal



WARNING...

Colour-bands



Colour-bands



1 - 3 years

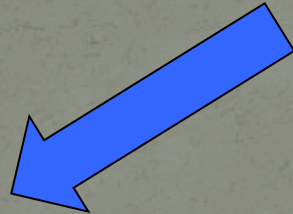


?

7 years +

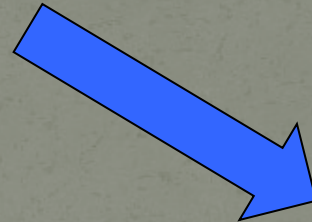


2008...



MSciComm.

Science Communication,
Wildlife Filmmaking
New Zealand



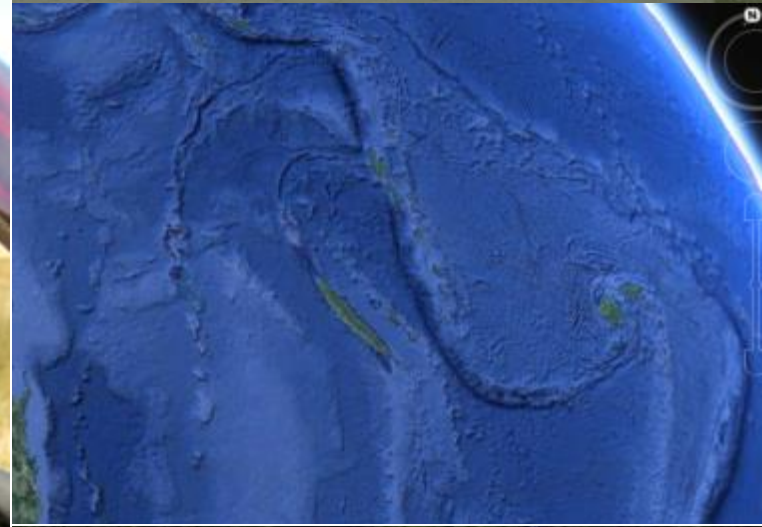
PhD.

Satellite Telemetry,
Wedgies
WA

“Live your dream ...

... don't dream your life”





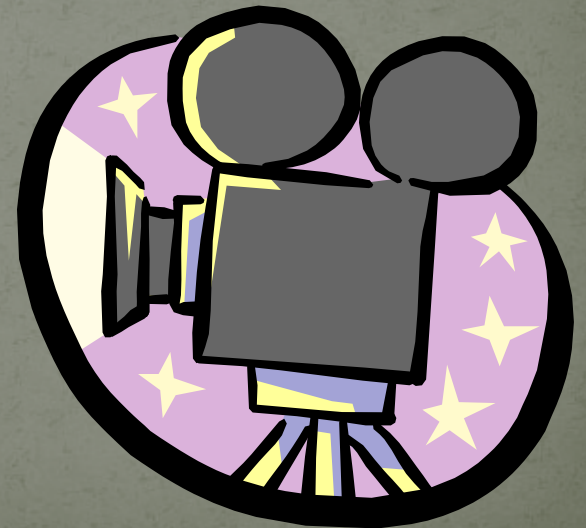
Filmmaking Course

Masters in Science Communication

Year One: Filmmaking intro

Year Two:

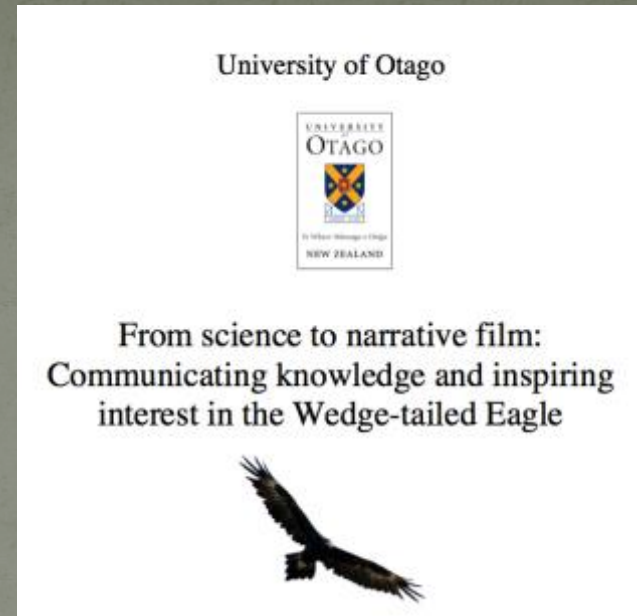
- Academic Thesis
- 25 Minute Film



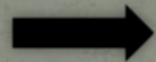
Thesis

Science not effectively communicated

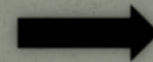
Science is NOT black & white



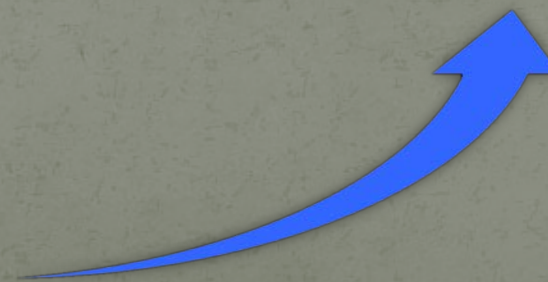
Scientists &
Research



Media



Government,
Public



Storytelling



“Story is ***EVERYTHING!***”

Where Do Eagles Dare?



One man's quest to fulfil a boyhood dream... and a world first satellite tracking study.

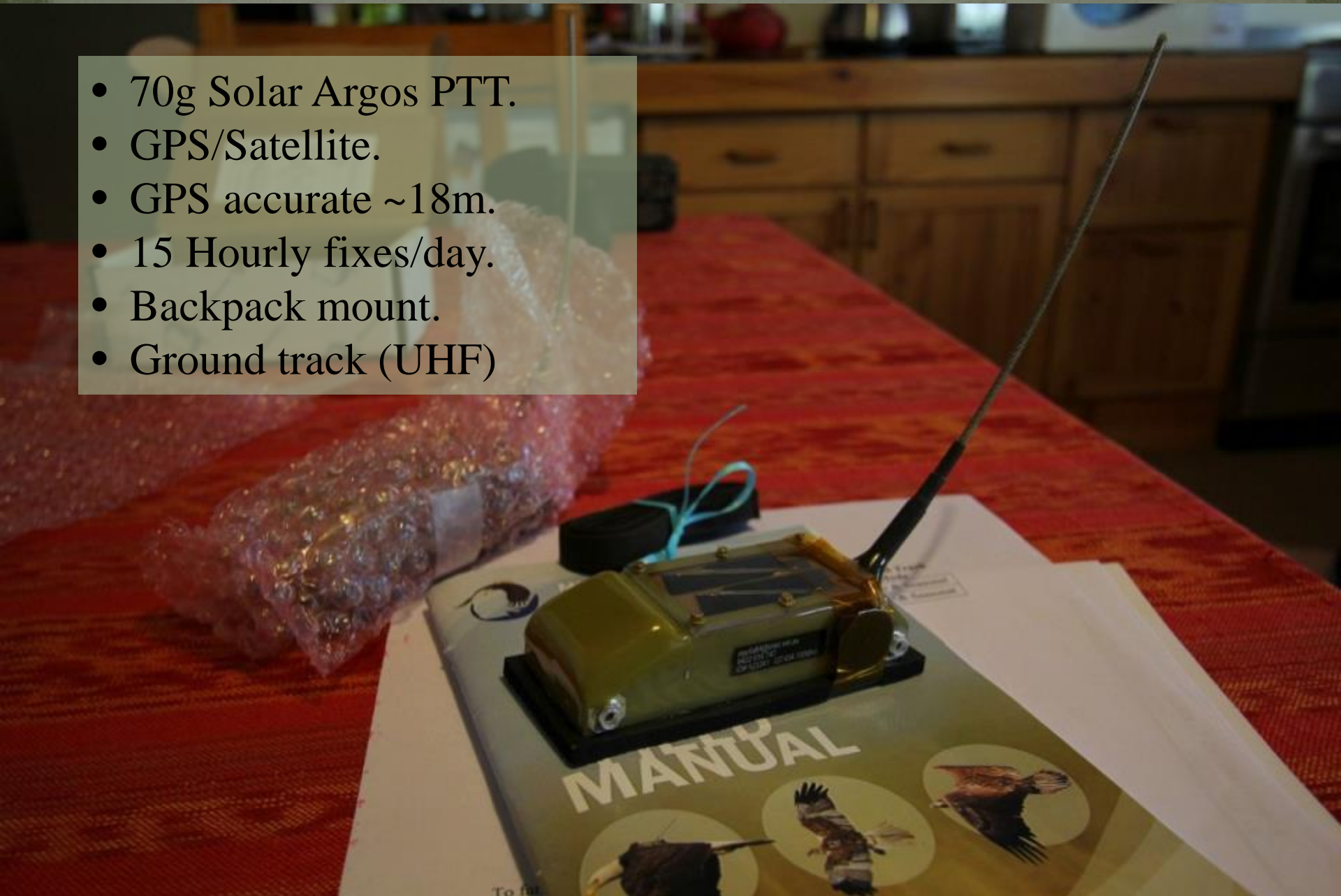
Tues 9th & Fri 12th December 2014.

TICKETS & INFO: simoncherriman.com/Simon_Cherriman/WDED_Screening

DOORS OPEN 7pm

Show Begins 7:30pm

- 70g Solar Argos PTT.
- GPS/Satellite.
- GPS accurate ~18m.
- 15 Hourly fixes/day.
- Backpack mount.
- Ground track (UHF)





Pozible?

What Now!?

- PhD. – Wedge-tailed Eagle ‘Population Dynamics’
- Continued Matuwa & Perth population studies
- Looking for PhD funding 😊
- Feed habit. Find answers. Tell Stories. Follow dreams.



CONSERVATION is *not* about saving
the **life** of every animal or plant.

It is about managing the land to help
BIODIVERSITY play its role...

And integrating our lives *with the grain*.

(as indigenous cultures have done for 1000's of years!)

This will help the **Earth**, and therefore
help **Us** have a **SUSTAINABLE** future !

THANKYOU!

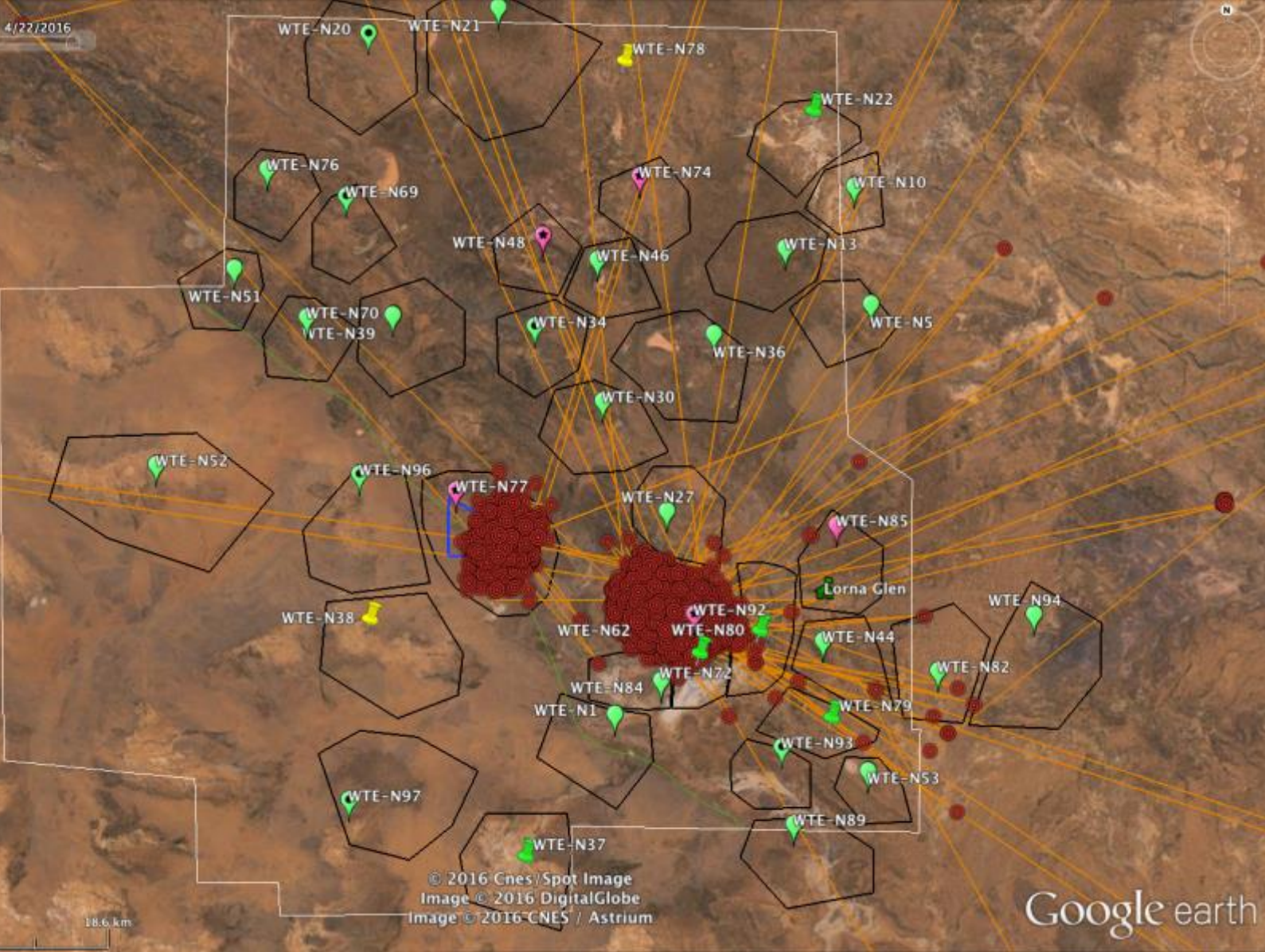


www.simoncherriman.com

iNSiGHT Ornithology

Bird photography, research, education

4/22/2016



18.6 km

© 2016 Cnes / Spot Image
Image © 2016 DigitalGlobe
Image © 2016 CNES / Astrium

Google earth

4/4/2014 6 am
5/13/2014 5 pm
1/2014 5/2014



Image Landsat

Google earth

73 km

42/18/2015 8 pm
5/13/2016 5 pm
12/2015 5/2016



Matuwa

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

423 km

Google earth



www.simoncherriman.com

iNSiGHT Ornithology

Bird photography, research, education

Want to help Raptors? (and other native wildlife)

1. Consider YOUR ecological footprint:

DIET? DWELLING? DOWNTIME?

2. Retain native vegetation, ESPECIALLY old **HABITAT** trees.

3. Replant & Landscape with **LOCAL, NATIVE** vegetation.
(*water-wise, fauna attracting*).

4. Conserve **L A R G E** areas of land.

5. Contain pets or consider valuing WILDLIFE as pets!

6. Engage with = VALUE & **UNDERSTAND** the
NATURAL AUSTRALIAN environment.

7. **MONITOR** our ecosystems to give **feedback** on how effective our actions are for sustainability.

KEY POINTS:

- Learn from the past.
- Eagle's eye view – LANDSCAPE scale
- Prioritise Science/Research
-



BIODIVERSITY

everything has a role to play.

... IS **IMPORTANT** BECAUSE:

- all plants and animals perform a *job*. (think of a footy team... or your body!)
- the more jobs available, the **healthier** the environment.
- DIVERSITY = **RESILIENCE**.
- environmental health = human health (physical & mental).
- healthy ecosystems work for *free*.
- Clean air and water = **vital**.
- Long-term survival (native is better)

Also

- the one thing that connects all Australians is **THE LAND**.
 - the majority of species in Australia are *unique*, & found *nowhere else...*
- ...therefore we have lots to be cherish, be proud of, and show off!



BIODIVERSITY in south-west WA

>5000 species of plants

>50% found
NOWHERE ELSE
(endemic)



Oct 2012

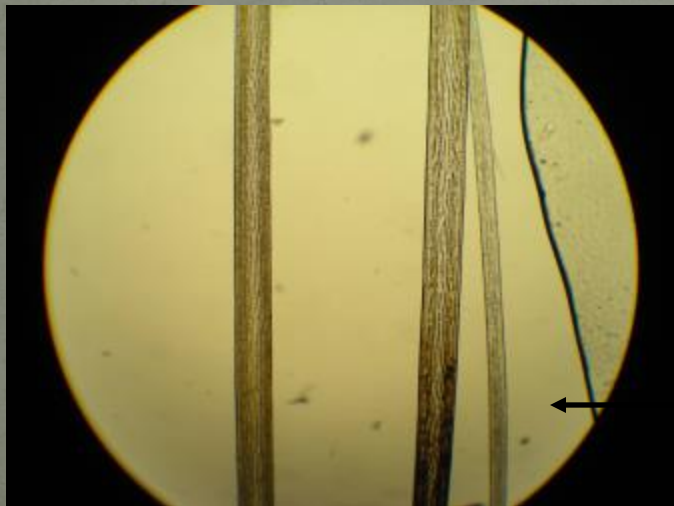
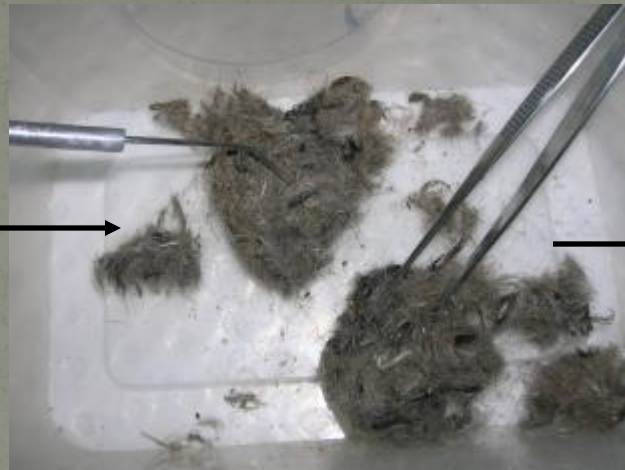


Some 2012 Highlights

Prey Remains



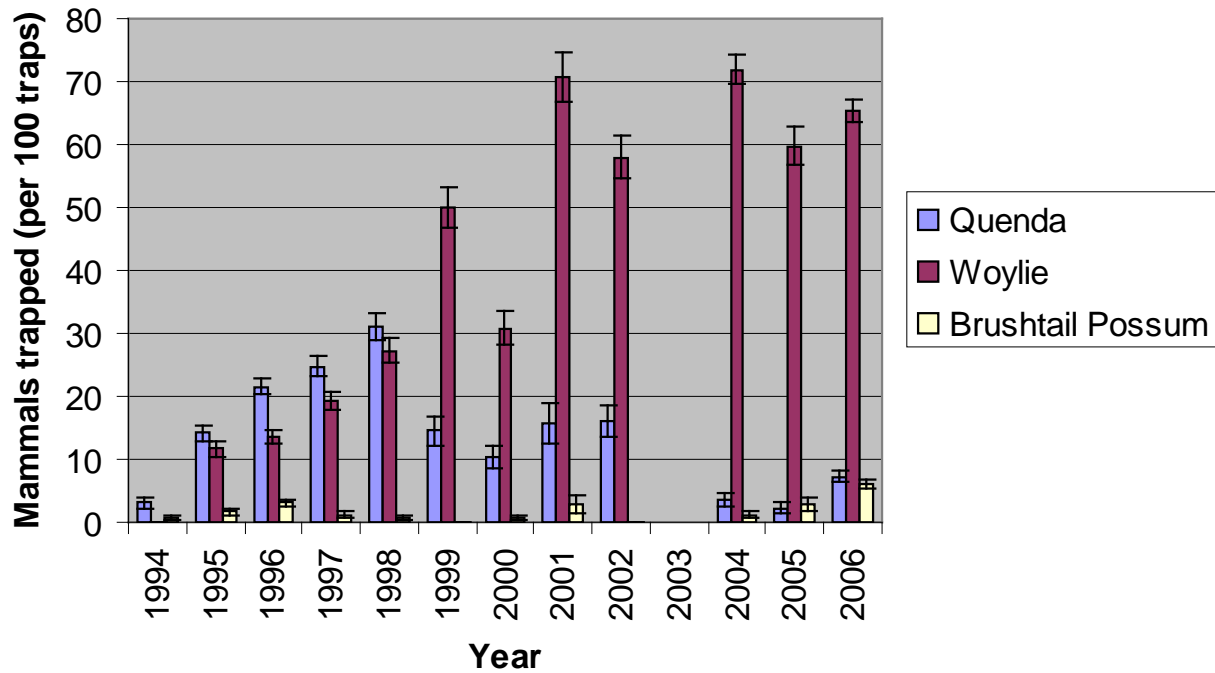
Pellet Analysis



Threatened Mammals



Trapping at Karakamia



Tender Parents