The northern hopping-mouse on Groote Eylandt... and beyond?

Dr Rebecca Diete

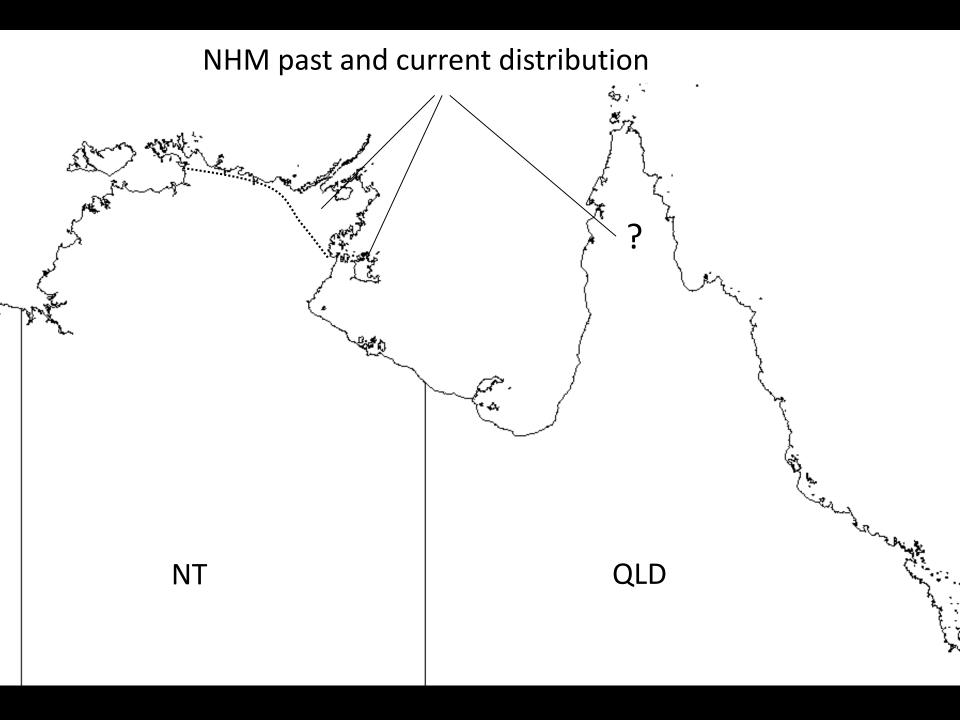


Australian hopping-mice (Notomys spp.)

Threats to hopping-mice

	Status		Potential threats				_
			Introduced	Introduced	Land		
Species	EPBC	IUCN	predators	herbivores	clearing	Fire	References
N. alexis	-	LC	Х				Morris et al. 2008a
N. aquilo	V	En	Х		Х	Х	Woinarski 2004; Woinarski 2008
N. cervinus	-	V	Х	Х			Brandle et al. 2008
N. mitchellii	-	LC		Х	х		Morris et al. 2008b
N. fuscus	V	V	Х	Х			Moseby & Menkhorst 2008; Dickman et al. 2000
N. amplus	Ex	Ex	Х	Х		Х	Baillie 2008a; NRETAS2006a
N. longicaudatus	Ex	Ex	Х	Х		Х	Morris & Burbidge 2008a; NRETAS 2006b
N. macrotis	Ex	Ex	Х		Х		Morris & Burbidge 2008b
N. mordax	Ex	Ex	Х				Baillie 2008b;
N. robustus*	-	-	Unknown			Mahoney et al. 2008	

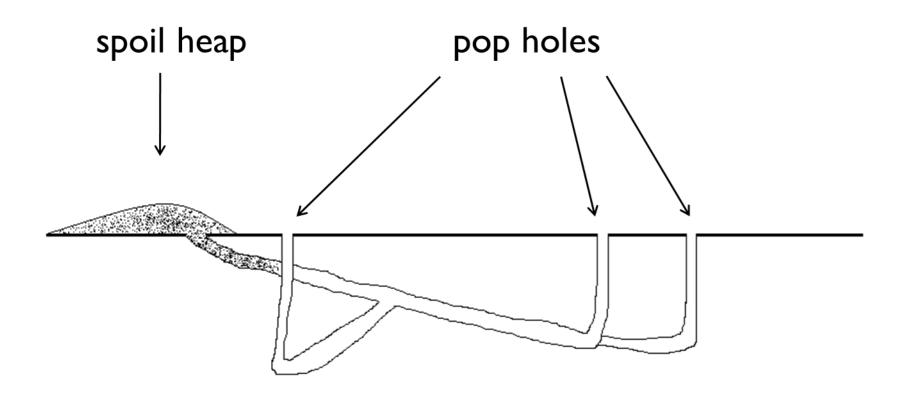
* Known only from skeletal remains in owl pellets. It is presumed to have become extinct sometime within the last 200





"Conventional trapping methods were utterly unsuccessful with this species... and their only reaction to traps was to kick sand on them." D. H. Johnson, 1964

Burrow systems









 Investigate the effectiveness of spoil heaps as an index of presence or abundance

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- Trial other survey methods (camera traps and pitfall traps)

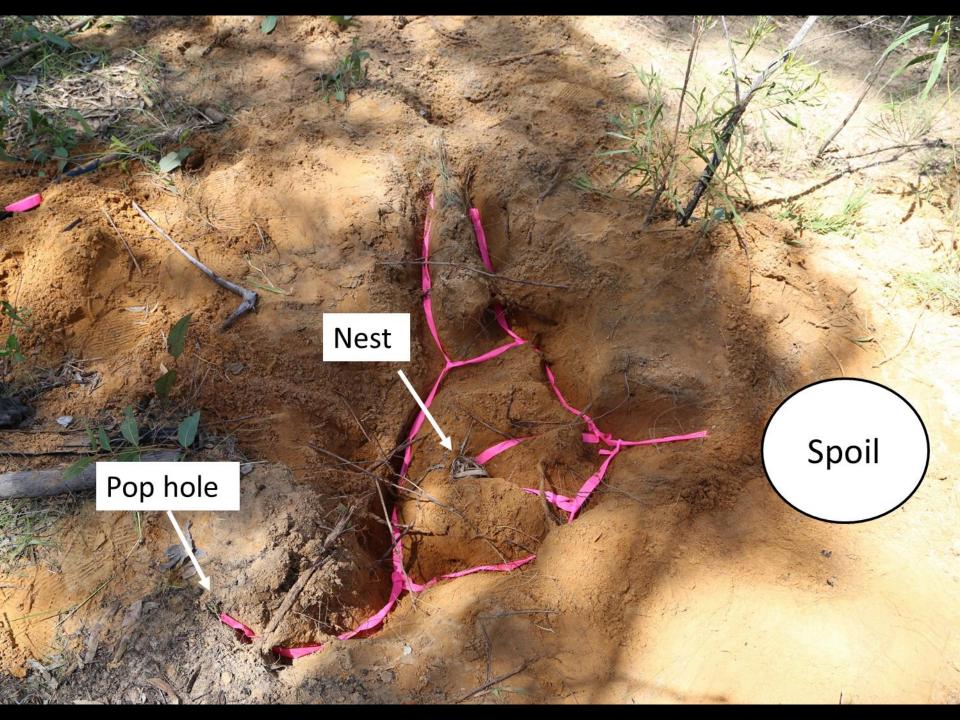
- Investigate the effectiveness of spoil heaps as an index of presence or abundance;
- Trial other survey methods (camera traps and pitfall traps);
- Describe habitat use and population ecology.

Key results

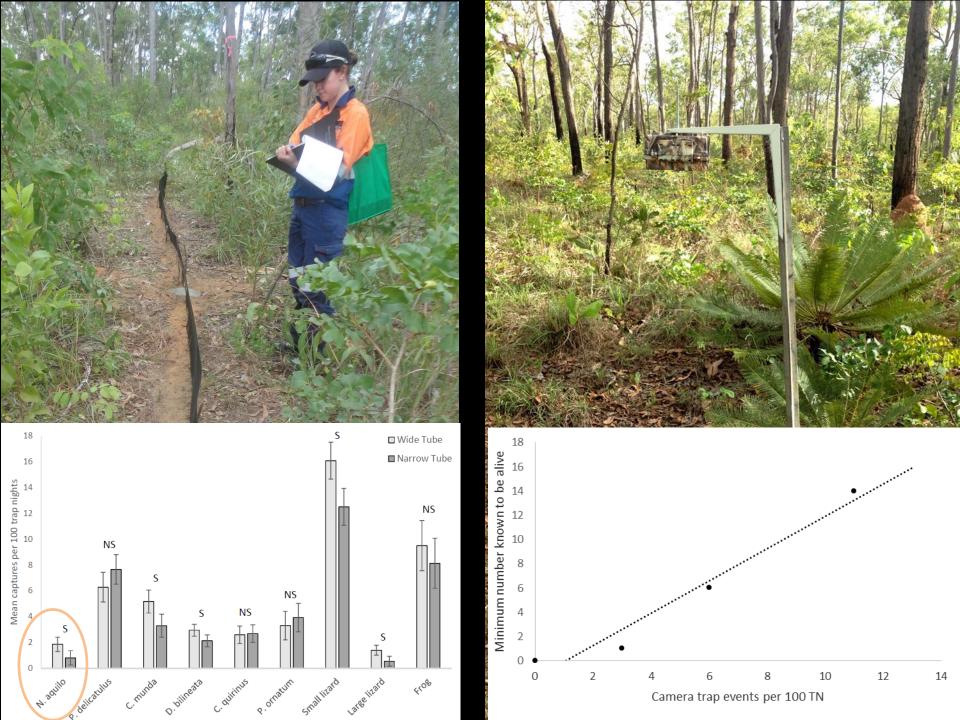
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Eucalypt woodland on sand

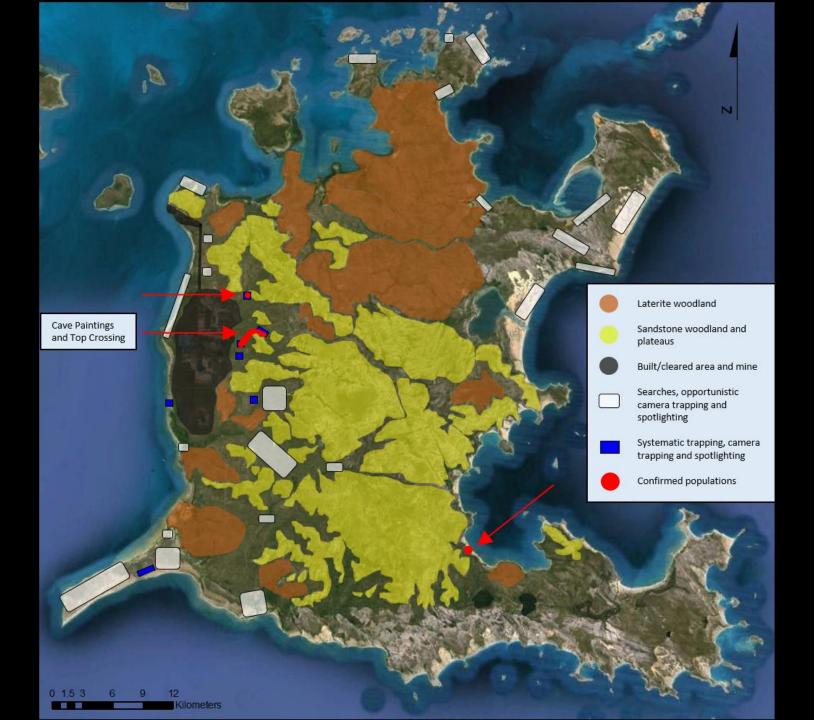
400 Meters

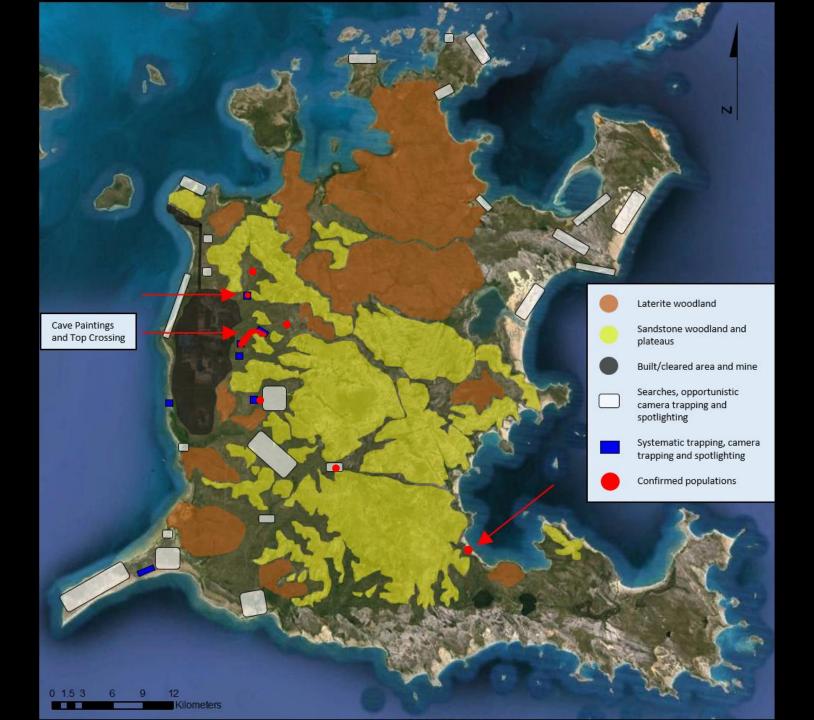
200

300

Acacia shrubland

Sandstone woodland





What is the most effective way to detect the presence of NHM?

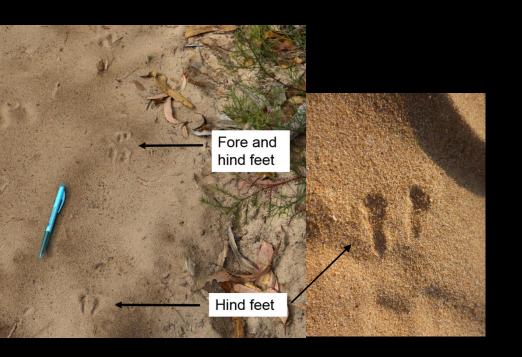


Look for spoil heaps



- 50 cm 1 metre at their longest length
- Round or oblong in shape
- Fresh mound or flat and weathered
- No hole where the soil could have come from

Other clues: pop holes and tracks

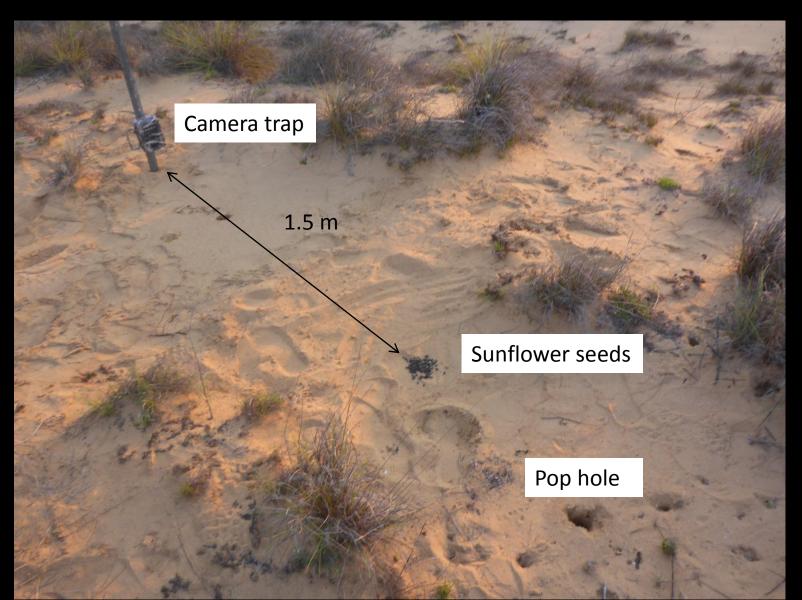


- Tracks, often bipedal
- 20 60 cm apart when bounding



- Pop holes 2.5 5 cm
- Round, vertical
- 1 5 m from spoil heap

Confirm NHM with camera traps



What's at stake?

What's at stake?

Conservation status?
Distribution?
Extra management or protection?

Acknowledgments











