

NCCARF – Terrestrial Biodiversity Network

What do we do?

Yvette Williams – Network Coordinator



Network Activities

- Communication
- Noticeboard
- Must reads and grey literature
- Research support
- Events



Network Membership

>900 members

- Doubled in 2010
- Particularly in government & other stakeholder groups
- Lower uptake (TAS, NT, ACT)

Expanded via:

- invitation letter
- brochure
- promotion at conferences
- Roadshow
- Word of mouth

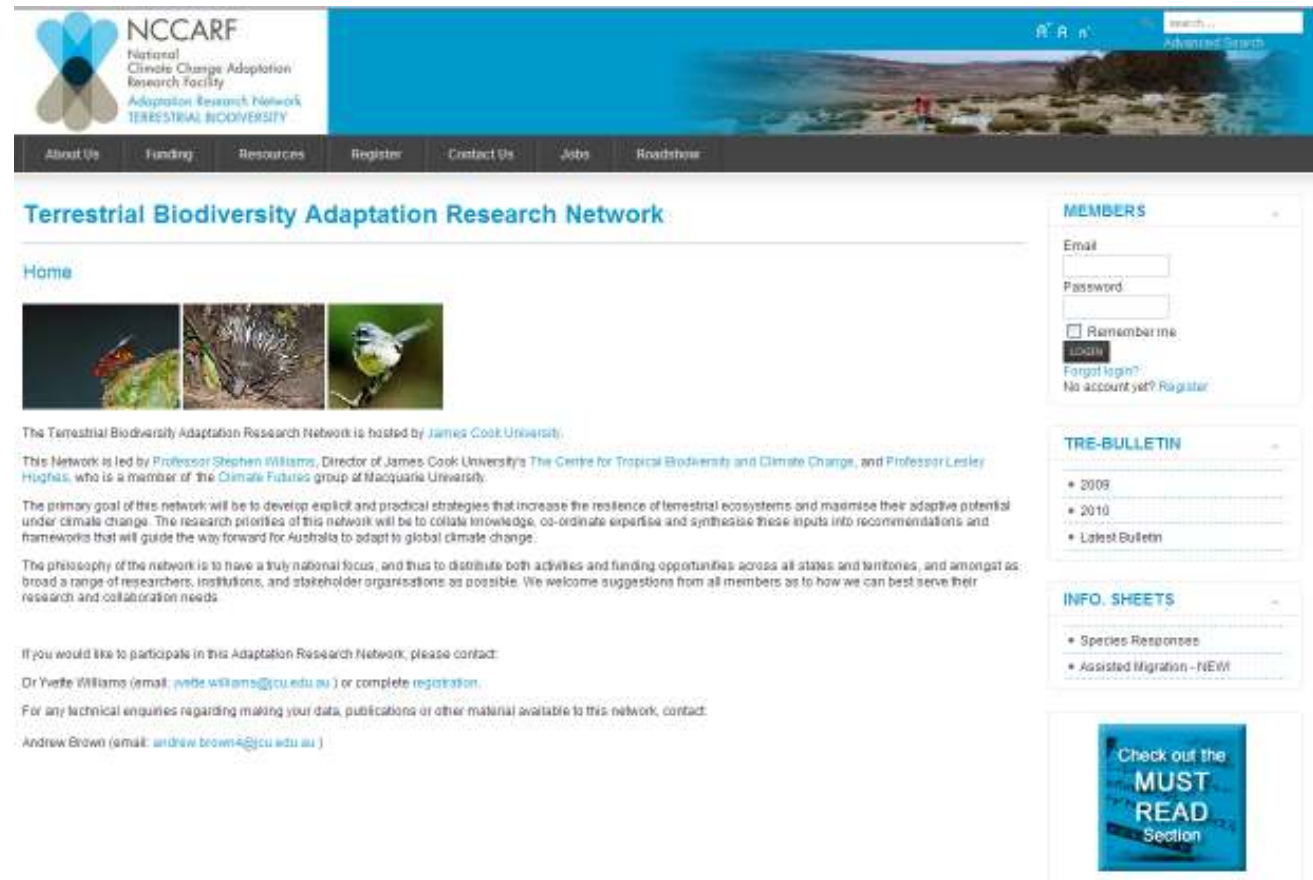
Institution	Number of members
Research	369
Government	
- Federal	39
- State	191
- Local	93
Community (NGOs)	52
Industry/Private sector	13
Other	68
Total	825



Communication:


Website

- Network Structure
- Priorities and Goals
- Funding
- Downloadable resources
- Roadshow
- Noticeboard
- Registration



Noticeboard










- Funding Opportunities
- Student Projects
- Jobs
- Events


Terrestrial Biodiversity Adaptation Research Network
 (1 viewing) lauren.hodgson

Board Categories

Terrestrial Biodiversity Noticeboard

Please advertise or browse through project and funding opportunities relating to climate change and terrestrial biodiversity below. There are specific boards for student projects, research funding, collaborative opportunities and employment.

Forum	Topics	Replies	Last Post
 Welcome to the NCCARF Terrestrial Biodiversity Network Introduce yourself here and network with researchers and stakeholders from your state	1	0	Welcome to Kunena! by Kunena 09/22/2009 17:07
 Student Scholarships and Project Opportunities  Advertise or browse project opportunities for students	0	0	No Posts
 Research Funding Opportunities  Advertise or browse funding opportunities here	1	0	TERN - EIF submission process now open by lauren.hodgson 08/05/2010 00:45
 Events  What's happening in terrestrial biodiversity climate change adaptation? Seminars, workshops, conferences advertised here.	1	0	NCCARF-TB Queensland Roadshow - Brisbane 14 Sept by lauren.hodgson 08/13/2010 11:36
 Job board  Advertise or browse employment opportunities	2	0	PostDoc in Amphibian Population Ecology - 25 Aug by lauren.hodgson Today 00:40

Board Categories



Noticeboard

- To link stakeholder research needs with researchers
- Associated funding not necessary
- Advertise student projects
- Jobs and Events notices



Must reads and grey literature

Must reads:

- Recent published literature on adaptation for terrestrial biodiversity placed on the website
- Currently working on 100 best reads section

Grey literature:

- Reports or links placed on website for access to both national and international sources.
- invite people to send these reports if they feel relevant to the network.



Database and GIS information

- Link to ARCS, Atlas of Living Australia and Australian National Data Service (ANDS)
- Help with data input
- Link to GIS resources



TRE-bulletins 2010

Four page, quarterly research update to inform researchers and stakeholders

- January
- April
- July
- October



Information sheets

Released:

- Species responses to climate change
- Assisted Migration

Upcoming in 2010:

- Fire and climate change
- Conservation planning



INFORMATION SHEET TWO

Assisted Migration as a Management Tool for Species Threatened by Climate Change

Climate zones are shifting rapidly. For some species, dispersal is adequate for tracking environmental change, but for others the rate of climate change will exceed their ability to adapt in their current range or disperse to more climatically suitable habitat. In some cases, a radical management action known as 'assisted migration' may be required to help species persist into the future and prevent climate change related extinctions.

This information sheet explains the concept of assisted migration as a management strategy for terrestrial species threatened by climate change, including some of the more controversial aspects of this approach and implications for managers and policy-makers.

What is Assisted Migration?

Assisted migration (AM), also known as translocation, assisted colonisation, or managed relocation involves removing individual plants or animals from an area which has, or will become, unsuitable due to climate change, and moving them to a new site where conditions will be more suitable.

AM is considered a radical and controversial type of human intervention. Most previous instances of AM have been undertaken to protect threatened species from predators, but it is increasingly being discussed as a potential tool for conservation in the face of climate change.

Although the role of AM is still being vigorously debated, some prominent climate change scientists support it under certain circumstances, along with the Ecological Society of Australia.



Climate change induced events, such as frequent wildfire, cyclones or drought, could make habitat unsuitable for some vulnerable species (© L. Valentine).



Translocations to predator-free Escape Island have helped boost numbers of the endangered marsupial, the dibbler (*Parantechinus apicalis*). (© K. Bieby)

Assisted Migration in Action

An estimated 200 translocations or re-introductions of 42 vertebrate species have been undertaken in Australia for conservation purposes. Mammals and birds have largely been the focus of these efforts to date.

For example, a population of captive-bred dibblers, an endangered marsupial from Western Australia, was translocated to a predator-free island in the 1990's. This translocation has been deemed a success and dibblers have since been re-introduced on the mainland at several other sites.

A similar translocation of Gilbert's potoroo's, Australia's most endangered mammal, to Bald Island also seems to have been successful, at least in the short term.

However, not all translocations are successful and Australia seems to have a higher failure rate than many other parts of the world. This is probably related, in part, to the presence of introduced cats and foxes in most mainland habitats.



People / Research finder / cross-referencing tool (aligning research interests based on NARP)

AIM: facilitate research collaboration on the Priority Research Areas outlined in the [NARP](#).

The files linked to each priority research area below are the people which nominated this area of research interest.

- 5.1 National/ Continental scale goals
 - [5.1.1 New conservation goals under Climate change](#)
 - [5.1.2 Legal, policy and institutional architecture needed to achieve conservation goals](#)
 - [5.1.3 Long term observation systems and conceptual models](#)
- 5.2 Regional issues
 - [5.2.1 Designs of landscapes to confer maximum resilience](#)
 - [5.2.2 Climate change interaction with other key stressors](#)
 - [5.2.3 Carbon mitigation to maximise biodiversity conservation](#)
 - [5.2.4 Linking socio-economic trends to yield biodiversity outcomes](#)
- 5.3 Local land management issues
 - [5.3.1 Costs/benefits of adaptation measures to key communities and ecosystems](#)
 - [5.3.2 Fire management adaptation](#)
 - [5.3.3 Response of management in local protected areas](#)
 - [5.3.4 Whole area management for minimising biodiversity loss](#)
- 5.4 Managing key species
 - [5.4.1 Prioritising species for investment](#)
 - [5.4.2 Effective management of priority species](#)
 - [5.4.3 Managing problem species](#)



Roadshow Timetable

State	Location	Date
QLD	Brisbane - Ship Inn, Southbank	Tuesday, 14th September
VIC	Melbourne - Rydges on Swanston	Tuesday, 5th October
WA	Perth - Curtin University	Thursday, 11th November
NSW/ACT	Canberra - ANU	6th-10th December
SA	-	TBA



Research Support: Honours/Masters Funding

- Project funding for climate change adaptation research
- Seven students supported in 2009
- Eight students supported in 2010
- Completed project summaries available on website



PhD Collaborative Travel Grants 2010

- Students awarded funding to collaborate and learn new skills unavailable at their home institute
- Nine students supported in 2009
- Nine students supported in 2010
- Completed student reports available on the website



International invited speakers

- International guests to speak on Climate Change adaptation
- Present in capital cities around Australia
- 2009 – Jeff Price from WWF, USA
 - Rachel Warren from Trindler Centre, UK
- 2010 – Jessica Hellmann from University of Notre Dame, USA
 - UWA talk 19th Dec

Other suggestions for presenters welcome.



Workshops 2009 – 2010 completed

Conservation Planning (November 2009)

- Convened by Bob Pressey and Steve Williams
- Daintree, North Queensland

Genetic Translocation (April 2010)

- Insuring against extinction and increasing local adaptation
- Convened by Ary Hoffman and Carla Sgro
- Melbourne, Victoria



Workshops 2010 - 2011

Assisted Migration/Translocation Species (November 2010)

- Move what, where when and how
- Convened by Stephen Garnett and Nicki Mitchell
- York, WA

Riparian vegetation (June 2011)

- with Freshwater Network
- Convened by Sam Capone and Stephen Williams
- Crab Island, NT

Estuarine ecosystems (Nov 2011)

- with Marine, Freshwater and Settlements and Infrastructure Networks
- Convened Melanie Bishop (Macquarie Uni)

