



Tools, techniques and policy pathways for biodiversity conservation at a landscape scale

In 2011, the Landscapes and Policy Hub set out to answer the question ‘What would a whole of landscape approach to biodiversity conservation look like?’

The tools and techniques presented to the forum were developed especially for Tasmania. These tools are designed to help managers consider the multiple impacts of human and natural influences on biodiversity over entire regions, and identify where they can most effectively intervene to protect and improve natural values.

A Forum for Tasmanian Biodiversity Conservation Practitioners

- Date:** Wednesday, 10 December 2014
- Time:** 9.00am – 4.00pm
- Venue:** Hobart Grand Chancellor (Harbour View 1, Mezzanine Level)
- Purpose:** A forum to demonstrate the new tools, techniques and policy pathways developed by the Landscapes and Policy Research Hub to assist biodiversity conservation practice and policy.
- Participants:** Biodiversity conservation practitioners, landholders, managers and policymakers, stakeholders and end-users from the private sector, local and state government and non-government organisations.

Agenda

9:00am	Registration			Mezzanine Level
9:30am	Welcome and Hub Overview			Prof Ted Lefroy
10:00am	Tools & Techniques: The Overview			Lead Researchers
	<p>A. Systems approaches to improved planning (Dr Michael Mitchell)</p> <p>B. Improving governance for an uncertain future (Prof Sue Moore)</p> <p>C. Water management tools to explore irrigation and conservation (Dr Danielle Warfe)</p> <p>D. Future Tasmanian Landscapes: projecting the distribution of vegetation communities under climate change (Dr Bec Harris)</p> <p>E. Connecting wildlife: closing gaps with the 'Gap GLoSR' model (Dr Alex Lechner)</p> <p>F. Modelling the spread of invasive species with the SPADE model (Dr Nick Beeton)</p> <p>G. Species on the move: weather variability and climate refuges for 230 Tasmanian vertebrates (Prof Chris Johnson)</p> <p>H. Fire tools at your fingertips: real-time fire hazard mapping, online fire history and future fire danger (Prof David Bowman)</p> <p>I. Identifying aquatic refuges with spatial multi-criteria analysis for biodiversity conservation (Dr Reg Magierowski)</p> <p>J. Managing endangered species with spatial multi-criteria analysis (Dr Luciana Porfirio)</p>			
11:00am	Morning Tea (Mezzanine Level)			
Rooms	Oatlands	Ross	Tunbridge	Perth
11:30am	Workshop H Fire Tools	Workshop F Invasive Species	Workshop C Modelling Water Use	Workshop J Interacting Species
12:30pm	Lunch (Mezzanine Level)			
1:30pm	Workshop E GAP CLoSR	Workshop D Vegetation Communities	Workshop A System Approaches	
2:30pm	Workshop I Aquatic Ecosystems	Workshop G Species on the Move	Workshop B Improving Governance	
3:30pm	Research Liaisons (Mezzanine Level) - researchers available for further discussions			
4:30pm	Close			

CONCURRENT WORKSHOP SESSIONS				
	Oatlands	Ross	Tunbridge	Perth
11:00am				
Rooms				
11:30am	<p>Workshop H Fire tools at your fingertips: real-time hazard mapping, online fire history, future fire danger</p> <p>Presenters: David Bowman Paul Fox-Hughes Chair: John Harkin (DPIPWE)</p>	<p>Workshop F Modelling the spread of invasive species with the SPADE model</p> <p>Presenter: Nick Beeton Chair: Louise Gilfedder (DPIPWE)</p>	<p>Workshop C Water management tools to explore irrigation and conservation</p> <p>Presenter: Danielle Warfe Chair: Martin Read (DPIPWE)</p>	<p>Workshop J Managing endangered species with spatial multi-criteria analysis</p> <p>Presenter: Luciana Porfirio Chair: Bec Harris (ACE CRC)</p>
12:30pm	Lunch (Mezzanine Level)			
1:30pm	<p>Workshop E Connecting wildlife: closing gaps with the 'Gap GLoSR' model</p> <p>Presenter: Alex Lechner Chair: Daniel Sprod (TLC)</p>	<p>Workshop D Future Tasmanian Landscapes: projecting the distribution of vegetation communities under climate change</p> <p>Presenter: Bec Harris Chair: Felicity Faulkner (DPIPWE)</p>	<p>Workshop A Incorporating resilience assessment tools into biodiversity planning</p> <p>Presenter: Michael Mitchell Chair: Scott Schilg (NRM North)</p>	
2:30pm	<p>Workshop I Identifying aquatic refuges with spatial multi-criteria analysis for biodiversity conservation</p> <p>Presenter: Reg Magierowski Chair: Danielle Warfe (UTAS)</p>	<p>Workshop G Modelling the distribution of 200 Tasmanian birds, mammals and reptiles under climate change</p> <p>Presenter: Chris Johnson Chair: Oberon Carter (DPIPWE)</p>	<p>Workshop B Improving governance for an uncertain future</p> <p>Presenter: Sue Moore Chair: Allison Woolley(DPIPWE)</p>	
3:30pm	Researchers available for further discussions (Mezzanine Level) -			
4:30pm	Close			

Where to from here?

To ensure the tools are practical and relevant, we worked closely with staff from the Department of the Environment and land managers from the Tasmanian Department of Primary Industries, Parks, Water and Environment, Parks and Wildlife, NRM groups, Greening Australia, Bush Heritage, the Tasmanian Land Conservancy and local government, researchers from University of Tasmania and CSIRO, and landholders from the Tasmanian Midlands.

We trained 'champions' within these organisations to take up the batten to continue using and sharing the tools and techniques.

As a legacy, a web-based report will be available in early 2015 which captures and records all the research outputs from the hub.

Who was involved?

Professor Ted Lefroy



Ted is the Hub Director and leads the Communication and Knowledge Brokering Team which integrates the research and delivers the research outputs to people involved in biodiversity conservation.

Prof Ted Lefroy
P: 03 6226 2626
E: Ted.Lefroy@utas.edu.au

Suzie Gaynor



Suzie is the hub's Science Communication Manager. She works closely with researchers and end users to foster science that delivers practical solutions to on-ground land management challenges.

Suzie Gaynor
P: 03 6226 6276
E: Suzie.Gaynor@utas.edu.au



Louise Gilfedder

As the hub's Knowledge Broker for the Tasmanian Midlands, Louise helps to integrate the research and deliver it to stakeholders. Louise also works for Tasmania's Department of Primary Industries, Parks, Water and Environment.

Louise Gilfedder
P: 03 6165 4421
E: Louise.Gilfedder@dpiwve.tas.gov.au

Project Leaders

Bioregional Futures

Prof Brendan Mackey (Griffith Uni)

Climate Futures

Prof Nathan Bindoff (ACE CRC)

Economic Futures

Prof John Tisdell (UTAS)

Freshwater Ecosystems

Prof Peter Davies (UTAS)

Social & Institutional Futures

Prof Sue Moore (Murdoch Uni)

Dr Michael Lockwood (UTAS)

Vegetation and Fire

Prof David Bowman (UTAS)

Wildlife

Prof Chris Johnson (UTAS)

About the NERP Landscapes and Policy Hub

The Landscapes and Policy Hub is one of five research hubs funded by the National Environmental Research Program (NERP) for four years (2011–2014) to study biodiversity conservation.

We integrate ecology and social science to provide guidance for policymakers on planning and managing biodiversity at a regional scale. We develop tools, techniques and policy options to integrate biodiversity into regional-scale planning.

The University of Tasmania hosts the hub.

www.nerplandscapes.edu.au



National Environmental Research Program



ANTARCTIC CLIMATE & ECOSYSTEMS CRC



Australian National University



Murdoch UNIVERSITY



Griffith UNIVERSITY



Charles Sturt University