



## Climate change resilience: myth or reality?

Earth Systems and Climate Change Hub Roadshow

Monday 23 - Tuesday 24 September 2019 John Gorton Building, Canberra

## **Agenda**

Time	Session	Speaker/s		
DAY 1 – N	Monday 23 September			
	Climate change science for policy makers (Bunker Th			
9.30- 10.00	Introduction: What is climate change anyway?	David Karoly, ESCC Hub leader		
	<ul> <li>Acknowledgement of country, introduction to roadshow and the ESCC Hub</li> </ul>			
	<ul> <li>Impacts of increasing greenhouse gas emissions and global changes seen to date</li> </ul>			
	The National Climate Science Advisory     Committee and a strategy for Australian     climate change science			
	Questions – 10 mins			
10.00- 11.00	Climate change literacy session 1: Climate observations and drivers for the Australian region	Sugata Narsey, Bureau of Meteorology (BoM)		
	- How do we measure the climate?			
	- What drives natural climate variability?			
	<ul> <li>How does human-induced climate change fit into this picture?</li> </ul>			
	Questions - 20 mins			
Morning t	rea: 11:00-11:30	•		
11.30- 12.30	Climate change literacy session 2: Modelling our climate, and what climate models say about our future climate	Vanessa Round, CSIRO		
	- What are climate models?			
	- Emission scenarios			
	- Australian climate change projections			
	- Climate extremes			
	Questions - 20 mins			
Lunch: 12:30-13:30				



## ROADSHOW

Theme 2 – Tools for the job (Budjabulya Room, Level 1)



1.30 - 3.00	Accessing relevant climate change science information	Overview and facilitator: David Karoly, Hub Leader		
	Overview (30mins) Finding credible information  - Where to find synthesis information:     - State of the Climate, IPCC, WMO etc  - Where to find detailed data and tools for planners and technicians:     - CCiA, CoastAdapt and other tools such as Canute and the NESP tropical cyclone portal  - Available adaptation planning processes  Questions - 10 mins			
	Examples of using climate change data in partnership with stakeholders – NESP Hub Case Studies (30 mins)  NT Mango case study Gondwana rainforest case study Questions - 20 mins	Introduction: Mandy Hopkins  Mango: Vanessa Hernaman, CSIRO  Gondwana: Sugata Narsey, BoM, and Melinda Laidlaw, QLD Herbarium		
Afternoon tea: 3:00-3:30				
Theme 3:	Climate change science into action			
3.30- 5.00	Putting climate change science into action: examples of industry application of climate change science to inform management practises (65 mins)  - Introduction  - Using climate change science to inform shark bay management  - Using fire weather data to inform fire emergency management and adaptation  - Trialling eco-engineering options to protect coastlines  - Using citizen science and drones to collect coastal data  Questions - 20 mins	Intro: Mandy Hopkins. Hub knowledge broker  Shark bay: Vanessa Hernaman, CSIRO  Fire/AFAC: Hamish Ramsey, CSIRO  Eco-engineering: Ralph Roob, University of Melbourne/ National Centre for Coasts and Climate  Coastal erosion: David Kennedy, University of Melbourne/ National Centre for Coasts and Climate Toasts and Climate		







DAY 2 – Tuesday 24 September				
	ns will be held in the Budjabulya Room, Level 1  Panel discussion			
9.30 –	Ask a climate scientist panel: with climate	Facilitator:		
11.00	change and Earth systems experts	David Karoly (Hub leader)		
		Panel members: - Pep Canadell (CSIRO) - Christine Chung (BoM) - David Kennedy (Uni Melb/ NCCC) - Sugata Narsey (BoM) - Vanessa Hernaman (CSIRO) - Michelle Ho (CSIRO) - Hamish Ramsey (CSIRO)		
	ea – 11-11:30			
	Indigenous perspectives			
11.30- 13.00	Indigenous perspectives: learnings from a National Indigenous Climate Change Dialogue	Facilitator: Mandy Hopkins		
	<ul> <li>Overview of 2018 dialogue – lessons learnt, outcomes, report findings</li> </ul>	Indigenous dialogue attendees:		
	- Planning for a 2020 gathering	- Rowie Bullio - Paul Neal		
		- Suzanne Thompson - Bianca McNeair		
	3:00-13:30			
	Science-policy roundtable			
13.30- 2.30	Science-policy round table discussions:  - What would you like to know about the Hub's research?  - Intersections between science and policy	Hub researchers, Hub knowledge brokers and Traditional Owners		
	Topics of discussion could include such questions as:  - How can carbon stored in the land or ocean help us mitigation emissions?  - Are projections of future changes in Australia's climate reliable?  - What can be done to reduce coastal erosion?			
2.30- 4.00	Earth Systems and Climate Change Hub current and future research and engagement activities (Research Plan Version 6 overview)  Over afternoon tea nibbles	David Karoly, Hub leader  Hub knowledge brokers and some Hub researchers present		
	- Overview of RPV6 including projects, case studies, engagement activities and Indigenous activities (30 mins)			
	Questions and discussions with stakeholders			