Climate change resilience: myth or reality?

*Earth Systems and Climate Change Hub Roadshow*

**Monday 23 - Tuesday 24 September 2019**

**John Gorton Building, Canberra**

**Agenda**

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| **Time** | **Session** | **Speaker/s** |
| **DAY 1 – Monday 23 September** |
| ***Theme 1: Climate change science for policy makers* (Bunker Theatre, Basement)** |
| **9.30-10.00** | **Introduction:** *What is climate change anyway?** Acknowledgement of country, introduction to roadshow and the ESCC Hub
* Impacts of increasing greenhouse gas emissions and global changes seen to date
* The National Climate Science Advisory Committee and a strategy for Australian climate change science

**Questions –** 10 mins | **David Karoly, ESCC Hub leader**  |
| 10.00-11.00 | Climate change literacy session 1: *Climate observations and drivers for the Australian region* * How do we measure the climate?
* What drives natural climate variability?
* How does human-induced climate change fit into this picture?

Questions - 20 mins  | **Sugata Narsey, Bureau of Meteorology (BoM)** |
| **Morning tea: 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* * What are climate models?
* Emission scenarios
* Australian climate change projections
* Climate extremes

Questions - 20 mins | **Vanessa Round, CSIRO** |
| **Lunch: 12:30-13:30** |

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| ***Theme 2 – Tools for the job* (Budjabulya Room, Level 1)** |
| 1.30 -3.00 | Accessing relevant climate change science informationOverview (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 minsExamples 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 | **Overview and facilitator: David Karoly, Hub Leader****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** |

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| **DAY 2 – Tuesday 24 September** **All sessions will be held in the Budjabulya Room, Level 1** |
| ***Theme 4: Panel discussion*** |
| 9.30 – 11.00 | Ask a climate scientist panel: *with climate change and Earth systems experts* | **Facilitator:** **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)**
* **Harun Rashid (CSIRO)**
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| **Morning tea – 11-11:30** |
| ***Theme 5:*** *Indigenous perspectives* |
| 11.30-13.00 | Indigenous perspectives: *learnings from a National Indigenous Climate Change Dialogue*  * **Overview of 2018 dialogue – lessons learnt, outcomes, report findings**
* **Planning for a 2020 gathering**
 | **Facilitator: Mandy Hopkins****Indigenous dialogue attendees:*** **Rowie Bullio**
* **Paul Neal**
* **Suzanne Thompson**
* **Bianca McNeair**
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| **Lunch – 13:00-13:30** |
| ***Theme 6: 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

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?
 | **Hub researchers, Hub knowledge brokers and Traditional Owners** |
| 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** Overview of RPV6 including projects, case studies, engagement activities and Indigenous activities (30 mins)

Questions and discussions with stakeholders  | **David Karoly, Hub leader****Hub knowledge brokers and some Hub researchers present** |