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 – 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** | | |

|  |  |  |
| --- | --- | --- |
| ***Theme 2 – Tools for the job* (Budjabulya Room, Level 1)** | | |
| 1.30 -3.00 | Accessing relevant climate change science information  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 | **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** |

|  |  |  |  |
| --- | --- | --- | --- |
| **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)** |
| **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** |
| **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** |