



PACC MPR 2012 - NAURU

UNDERSTANDING CLIMATE CHANGE CONCEPTS







Climate change refers to:

• A change in the state of the climate that can be identifies by changes in the mean and/or the variability of its properties, and that persists for an extended period, typically decades or longer

• ANY CHANGE IN CLIMATE OVER TIME, WHETHER DUE TO NATURAL VARIABILITY OR AS A RESULT OF HUMAN ACTIVITY



SPREP Climate Change

• Change in average climate conditions for an extended period of time

Human-Induced Climate Change

Changes in climate attributed to human activity

Natural Climate Variability

Changes in climate attributed to naturally





Climate

Average trend of weather patterns for a given location

Weather

 Day to day climate conditions for a given location





Source: CSIRO, PCCSP (2011)



SPREP DRM & CCA: What do these terms mean?

DRM - the systematic process of using
administrative directives, organisations, and
operational skills and capacities to implement
strategies, policies and improved coping
capacities in order to lessen the adverse impacts
of hazards and the possibility of disaster
(UNISDR)



CCA - Adjustments in natural or human systems in response to actual or expected climatic stimuli or their effects that moderate harm and exploit beneficial opportunities (UNFCCC)



 CCM - a human intervention to reduce the sources or enhance the sinks of greenhouse gases (UNFCCC)









RISK

The probability of harmful impacts, or expected losses (deaths, injuries, property, livelihoods, economic activity disrupted or environment damaged) resulting from interactions between natural or human-induced hazards and vulnerable conditions.

Risk = Hazards x Vulnerability.

Beyond expressing a possibility of physical harm, it is crucial to appreciate that risks are always created or exist within social sectors. It is important to consider the social contexts in which risks and that people therefore do not necessarily share the same perceptions of risk and their underlying causes.





Vulnerability.

The degree to which a system is susceptible to, or unable to cope with, adverse effects of climate change, including climate variability and extremes.

Vulnerability is a function of the character, magnitude, and rate of climate variation to which a system is exposed, its sensitivity, and its adaptive capacity.



Linkages of relevant global and regional frameworks

Disaster Risk Reduction and Disaster Management A Framework for Action 2005 - 2015



Theme 1: Governance - organisational, institutional, policy and <u>decision-making</u> frameworks

Theme 2: Knowledge, information, public awareness and education

> Theme 3: Analysis and evaluation of hazards, vulnerabilities and elements at risk

Theme 4: Planning for effective preparedness, response and recovery

Theme 5: Effective, integrated and people-focused early

Theme 6: Reduction of underlying risk factors

Theme 1: Implementing adaptation measures

Theme 2: Governance and decision making

Theme 3: Improve understanding of climate

Theme 4: - Education Training and Awareness

Theme 5: Contributing to global greenhouse gas reduction

Theme 6: Partnership and cooperation







Flood Management







Climate Futures

- Group the projections into a set of climate futures, e.g.
 - Warmer, wetter (9 models = 50%)
 - Warmer, drier (4 models = 22%)
 - Hotter, drier (2 models)
 - Hotter, much drier (1 model)
 - Warmer, much drier (1 models)
 - Hotter, wetter (1 models)

• Projected changes in other climate variables can so be obtained from within this classification Source: CSIRO, 2011





Roadmap towards an integrated regional strategy for DRM and Climate Change by 2015







aller and Bion



Purpose of the Roadmap

- Establish a way forward or a process for developing an integrated Pacific regional strategy for Disaster Risk Management, Climate Change Adaptation & Mitigation
- Suggests some key milestones and the formation of a Technical Working Group to facilitate the development of the integrated strategy <u>plus</u>:



Best practice case studies in DRM, CCA and CCM





Expected Outputs...of Roadmap implementation

- Integrated Pacific regional strategy for Disaster Risk Management, Climate Change Adaptation & Mitigation
- 2. Implementation arrangements for the integrated strategy
 - Financing
 - Monitoring & evaluation



Best practice case studies in DRM, CCA and CCM





Climate Change

4 Delivery Divisions

Waste Management and Pollution Control



Environmental Monitoring and Governance b

SPREP Strategic Plan 2011-2015



Biodiversity and Ecosystem Management





2011-2015 SPREP Strategic Plan



