

Information-Sharing Workshop:  
IPCC AR5 Working Group II Chapter 25  
(Australasia)

Thursday 5 May 2011  
James Cook Hotel Grand Chancellor, Wellington



# IPCC 5<sup>TH</sup> ASSESSMENT REPORT

## OVERVIEW OF PROCESS AND GOALS

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# OVERVIEW

- Rationale for and origin of IPCC  
(Intergovernmental Panel on Climate Change)
- Principles of IPCC assessment
- Process and timeline for WGII and Australasia chapter

# IPCC: RATIONALE AND ORIGIN

IPCC was established in 1988 by governments through WMO and UNEP, to:

- assess the scientific foundation of climate change (observation, causes, projections)
- assess the potential impacts of, and vulnerability and adaptation options to climate change
- assess the options for mitigation

... is 'owned' by governments, but reports are written by experts within scope approved by governments

# IPCC: WORKING GROUPS

Working Group I: The Science of Climate Change

[Thomas Stocker, Qin Dahe]

Working Group II: Impacts, Adaptation, and Vulnerability

[Chris Field, Vicente Barros]

Working Group III: Mitigation of Climate Change

[Ottmar Edenhofer, Ramon Pichs Madruga, Youba Sokona]

Task Force on Greenhouse Gas Inventories

[Taka Hiraishi, Thelma Krug]

Task Group for Scenarios for Climate Impacts Analysis

[*co-chairs pending*]

# IPCC: REPORTS

Comprehensive assessments every 6-7 years;  
consist of reports from each Working Group as well  
as concluding Synthesis Report

## Each Working Group report comprises:

- Summary for Policymakers (SPM)
- Technical Summary
- Chapters of underlying report:
  - Executive summary
  - Text and figures
  - References

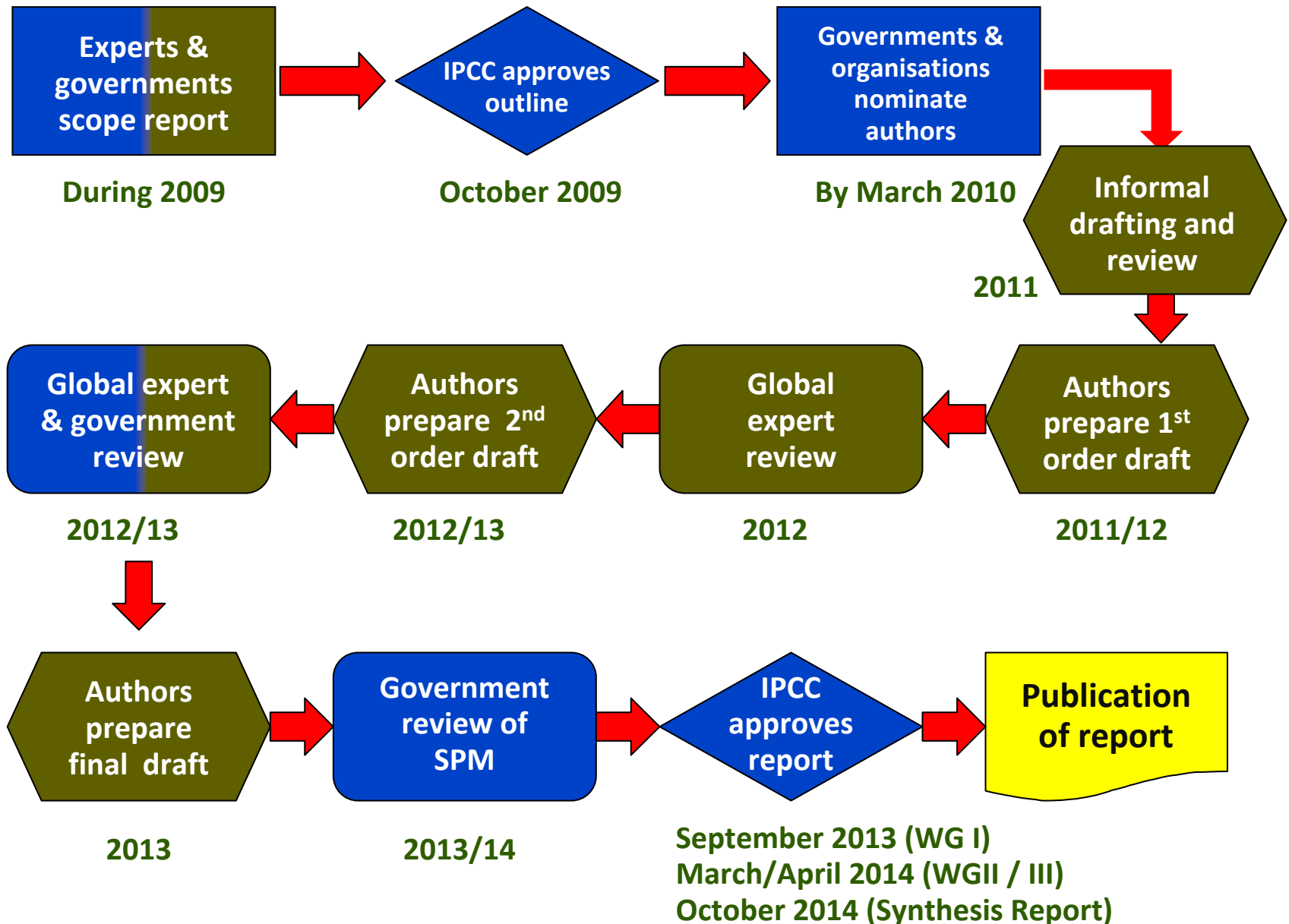
# FOURTH ASSESSMENT REPORT



# IPCC: SCOPE

- IPCC does not:
  - conduct new research or monitor climate related data
  - recommend specific policies or actions
- IPCC does:
  - ✓ (aim to) provide comprehensive, authoritative and unbiased policy-relevant but not policy-prescriptive information *to support* decision-making
  - ✓ use calibrated expressions of confidence/uncertainty
  - ✓ rely heavily on the science community for publication/sharing of studies, and a painstaking multi-stage international peer-review process

# TIMELINE 5<sup>TH</sup> ASSESSMENT REPORT (AR5)



# WORKING GROUP II

## PART A: GLOBAL & SECTORAL ASPECTS

### Context for the AR5

- 1 Point of departure
- 2 Foundations for decision-making

### Natural and Managed Resources and Systems, and Their Uses

- 3 Freshwater resources
- 4 Terrestrial and inland water systems
- 5 Coastal systems and low-lying areas
- 6 Ocean systems
- 7 Food production systems and food security

### Human Settlements, Industry, and Infrastructure

- 8 Urban Areas
- 9 Rural Areas
- 10 Key economic sectors and services

### Human Health, Well-Being, and Security

- 11 Human health
- 12 Human security
- 13 Livelihoods and poverty

### Adaptation

- 14 Adaptation needs and options
- 15 Adaptation planning and implementation
- 16 Adaptation opportunities, constraints, and limits
- 17 Economics of adaptation

### Multi-Sector Impacts, Risks, Vulnerabilities, and Opportunities

- 18 Detection and attribution of observed impacts
- 19 Emergent risks and key vulnerabilities
- 20 Climate-resilient pathways: adaptation, mitigation, and sustainable development

# WORKING GROUP II

## PART B: REGIONAL ASPECTS, INTEGRATING INPUTS FROM WGI AND WGIII

### 21. Regional Context

Introduction; Observed climate changes and relevant non-climate factors;  
Regional projections: added value and limitations; Similarities and pertinent differences in systems across regions; Cross-regional hotspots

### Regional Chapters

22. Africa
23. Europe
24. Asia
25. Australasia ( = Australia and New Zealand)
26. North America
27. Central and South America
28. Polar Regions
29. Small Islands
30. Open Oceans

# CHAPTER OUTLINES APPROVED BY IPCC PLENARY

- Introduction
- Major conclusions from previous assessments
- Observed impacts, with detection and attribution
- Projected integrated climate change impacts, w/ regional variation by scenario and time
- Assessing impacts, vulnerabilities, and risks
  - Vulnerabilities to key drivers (including extremes)
  - Economic, social, and environmental context for uncertain futures under alternative development pathways
  - Multiple interacting stresses
  - Uncertainty
  - Valuation of impacts and adaptation
  - Key vulnerabilities
- Adaptation and managing risks
  - Adaptation needs and gaps (based on assessed impacts and vulnerabilities)
  - Practical experiences of adaptation, including lessons learned
  - Observed and expected barriers to adaptation
  - Observed and expected limits to adaptation
  - Facilitating adaptation and avoiding maladaptation
  - Planned and autonomous adaptation
  - Potential and residual impacts
  - Thresholds and irreversible changes
- Adaptation and mitigation interactions
- Inter- and intra-regional impacts
- Multi-sector synthesis
- Case studies
- Research and data gaps

# WORKING GROUP II

## CHAPTER 25 (AUSTRALASIA) AUTHORS

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NEW ZEALAND  
AGRICULTURAL GREENHOUSE GAS  
Research Centre

Leading Partners in Science



Dairynz



# WRITING TEAM



Francis

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# KEY ISSUES FOR AUSTRALASIA CHAPTER IDENTIFIED TO DATE BY CHAPTER AUTHORS

- **Observed and projected integrated climate change**
- **Economic, social, and environmental context for uncertain futures under alternative development pathways** (non-climate context: social/environmental changes)
- **Sectoral assessments** (impacts, vulnerability, sector-specific adaptation options/lessons):
  - **Natural and managed resources and systems and their uses:**  
freshwater resources; terrestrial and inland freshwater ecosystems; coastal systems and low-lying areas; ocean systems including fisheries; forestry and biofuel production; food and fibre production systems
  - **Human settlements, industry and infrastructure:**  
urban areas; rural areas; energy, transport; tourism
  - **Human health, well-being and security:**  
human health; livelihoods, immigration, security; indigenous matters
- **Cross-sectoral adaptation decision-making and risk management**  
(including social science perspectives on barriers and limits, psychology, governance, multi-stakeholder)
- **Interactions between adaptation options, and adaptation and mitigation**
- **Inter- and intra-regional impacts/adaptation, and links with mitigation**  
(flow-on effects of responses within countries and across national borders)
- **Multi-sector synthesis**

# WORKING GROUP II

## CHAPTER 25 (AUSTRALASIA) TIMELINE

### 2011

11-14 January	First Lead Authors Meeting – Tsukuba, Japan
25 July-21 Sept	Informal Peer Review
12-15 December	Second Lead Authors Meeting – San Fran, USA

### 2012

<b>11 June-6 August</b>	<b>Expert Review</b>
22-26 October	Third Lead Authors Meeting – Location TBD

### 2013

<b>29 March-24 May</b>	<b>Government and Expert Review</b>
15-19 July	Fourth Lead Authors Meeting – Location TBD
28 Oct-20 Dec	Final Government Distribution

### 2014

17-21 March	Governments to approve SPM and accept underlying document – Location TBD
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# WORKING GROUP II

## CHAPTER 25 (AUSTRALASIA)

### How to contribute:

- **Publish! (technical reports ok; journal better!)**
- ***Cut-off dates:***
  - *31 January 2013: papers must be submitted*
  - *31 August 2013: papers must be accepted (DOI)*
- **Inform chapter lead authors of relevant work**
- **Contribute to peer-review process (please register as expert reviewer!)**

➤ [www.ipcc.ch](http://www.ipcc.ch) / [ipcc-wg2.gov](http://ipcc-wg2.gov)

# WORKING GROUP II

## CHAPTER 25 (AUSTRALASIA)

### Contacts:

#### Coordinating lead authors for chapter 25:

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#### IPCC websites:

General: [www.ipcc.ch](http://www.ipcc.ch)

Working Group II: [ipcc-wg2.gov](http://ipcc-wg2.gov)