The WGII Contribution to the AR5

IPCC WGII
http://www.ipcc-wg2.gov/

Chris Field, Vicente Barros
December 2010

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IPCC AR5
(WGI, 2013; WGII & III, 2014)

From “it’s real” to “here is the information you need to make good decisions for your stakeholders”

Stakeholder needs

- **High-confidence**

and

- **Support for decisions under uncertainty**

Stakeholder needs

- **High-confidence**

- Integrity
- Basic mechanisms
- Multiple lines of evidence

- **Support for decisions under uncertainty**

- Concept of a pdf
- Risk = probability x consequence
- Nature of consensus

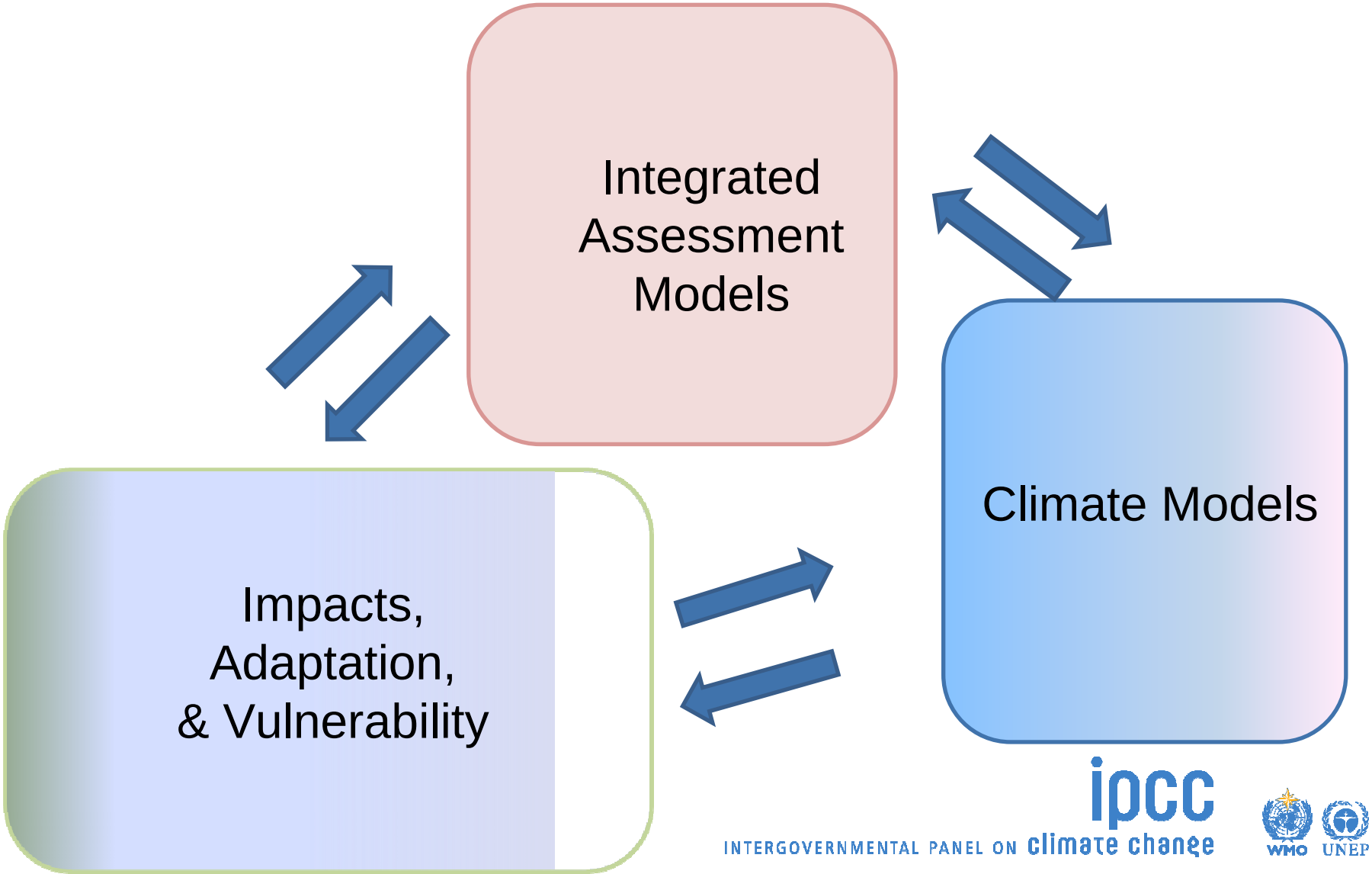
WGII

30 Chapters (20 in the AR4)
CLA/LA/RE team of 309

Main themes

- Building on the structure of the AR4
- Seamless integration across Working Groups
- Broad range of assessed impacts
- Climate change in the context of other stresses
- Framing to support good decisions, including ink
- Expanded treatment of adaptation
- Integration of adaptation, mitigation, & development
- Comprehensive treatment of regional aspects of climate

Old view: An interconnected system



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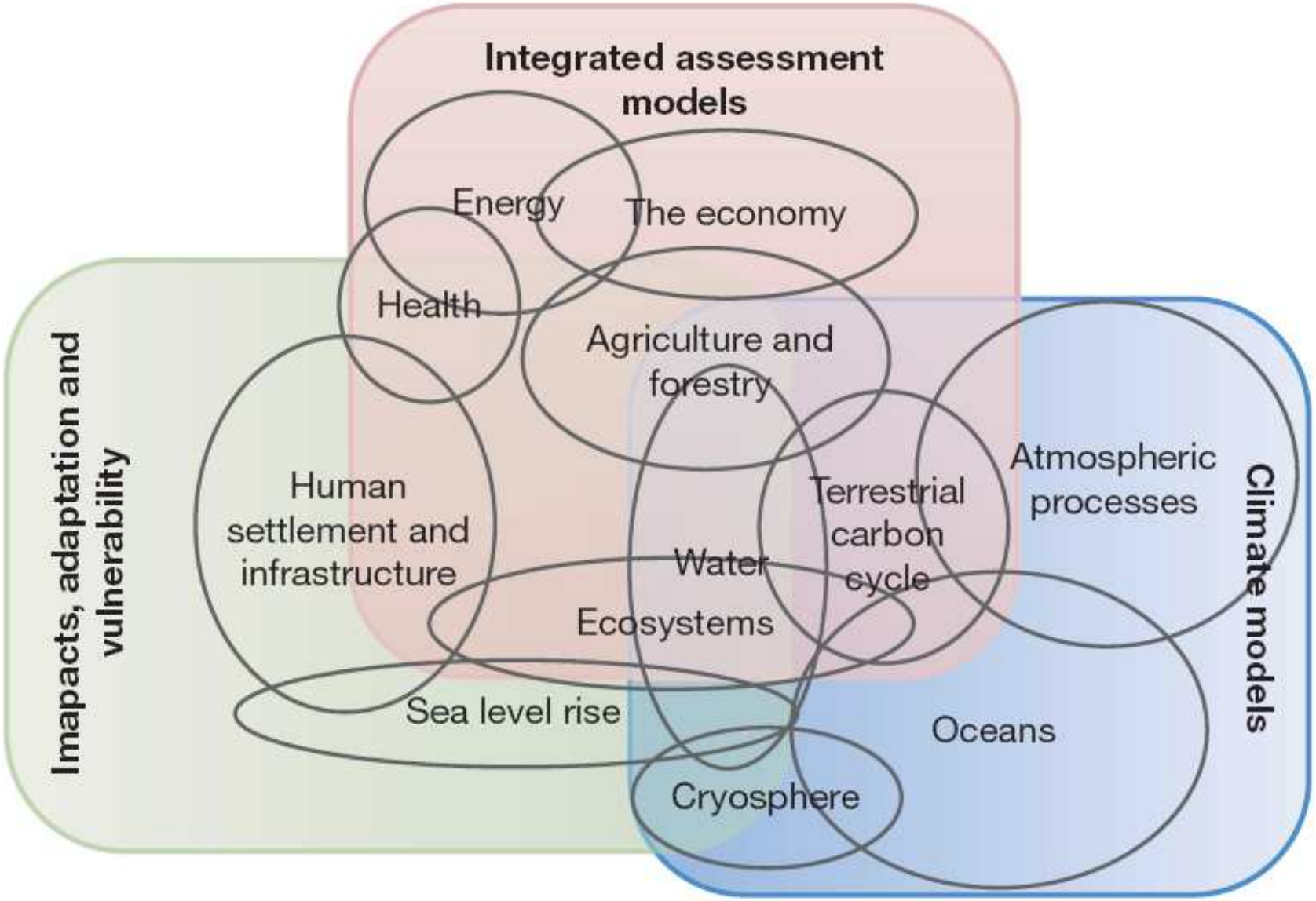
Integrated system approach



Moss et al. Nature 2010

IPCC Special Report: Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation

Chris Field, Thomas Stocker,
Vicente Barros

December, 2010

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SREX: Integrating disaster risk management, climate science, & climate impact communities

History

- Norway and ISDR present proposal to IPCC 29
  - Sept, 2008
- Scoping meeting, Oslo, March 2009
  - 375 nominations , 117 authors and review editors
- LAMs in Panama, Viet Nam, Switzerland, and Australia
- Second order draft due January, 2011
- Final approval plenary, November 2011

Outline

1. Climate change: New dimensions in disaster risk, exposure, vulnerability, and resilience
2. Determinants of risks: Exposure and vulnerability
3. Changes in climate extremes and their impacts on the natural physical environment
4. Changes in impacts of climate extremes: human systems and ecosystems
5. Managing the risks from climate extremes at the local level
6. Managing the risks from climate extremes at the national level
7. Managing the risks: International level and integration across scales
8. Toward a sustainable and resilient future
9. Case studies

Core issues

- What are the observed and projected changes in climate extremes and disasters?
- What are the climate and non-climate drivers of climate-related extreme impacts?
- What are the keys to effectively managing the risk of climate-related extremes, at local, national and international scales?
- What are the communication, educational, psychological, and technical tools to enable effective interactions among the communities working on physical climate, climate impacts, climate-change adaptation, and disaster risk management?

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