



IPCC Expert Meeting on Assessing Climate Information for Regions

ICTP, Trieste, Italy
16-18 May 2018

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INTERGOVERNMENTAL PANEL ON climate change



Scientific Steering Committee:

Valérie Masson-Delmotte (Co-Chair, WGI)

Panmao Zhai (Co-Chair, WGI)

Carolina Vera (Vice-Chair, WGI)

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Greg Flato (Vice-Chair, WGI)

Hans-Otto Pörtner (Co-Chair, WGII)

Debra Roberts (Co-Chair, WGII)

Andreas Fischlin (Vice-Chair, WGII)

Mark Howden (Vice-Chair, WGII)

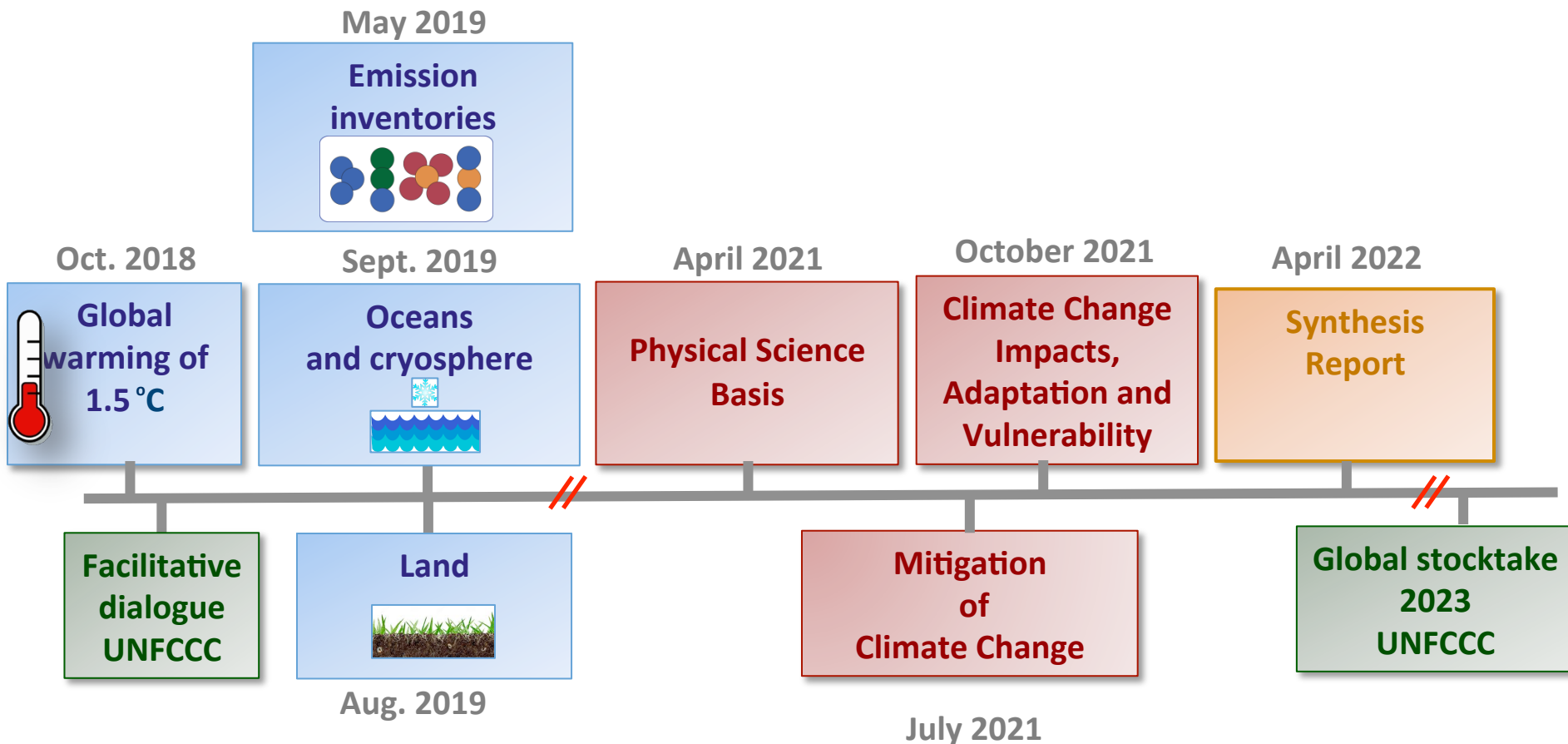
Ramon Pichs-Madruga (Vice-Chair, WGIII)

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The IPCC 6th Assessment Report (AR6)



Strengthening the assessment of regional climate information in the AR6

- ❖ Expectation from governments for the AR6 : emphasis on solutions, and on regional scientific information to support action
- ❖ New knowledge developments since the AR5 in climate sciences, multiple sources of regional information
- ❖ Needs for regional information for the assessment of impacts, risks, adaptation and mitigation options

➔ Scoping of new outlines of Working Group reports to facilitate “handshakes” and consistency

Objectives of this Expert Meeting

- ❖ Recommendations for Authors on the use of IPCC guidelines *e.g. multi-model guidance note, detection and attribution methodologies, treatment of uncertainties*
- ❖ Scoping the Working Group I AR6 Regional Atlas
- ❖ Common language across Working Groups
- ❖ Coordination mechanisms across Working Group chapter teams

 2 pages document

Structure

	Day 1 : Assessing climate information, from global to regional scale	Day 2 : Climate information for the assessment of sectoral and regional climate change impacts and risks	Day 3 : Scoping the AR6 Regional Atlas
Morning	Opening Lessons learnt from the AR5 and assessments of regional information	Specificities of regional climate information needs Break Out Groups	Recent experiences of climate atlas developments Break Out Groups
Afternoon	Break Out Groups Stocktaking session	Break Out Groups Stocktaking session	Stocktaking session Break Out Groups Scoping outcomes and next steps

Technical Support Units

Anna Pirani (Head, WGI)

Wilfran Moufouma-Okia (Head of Science, WGI)

Sarah Connors (Science Officer, WGI)

Robin Matthews (Science Officer, WGI)

Chen Yang (Science Officer, WGI)

Elvira Poloczanska (Head of Science, WGII)

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Susanne Henningsen

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WGI Outline

Summary for Policy Makers

Technical Summary

Large-scale climate change

Chapter 1: Framing, context, methods

Chapter 2: Changing state of the climate system

Chapter 3: Human influence on the climate system

Chapter 4: Future global climate: scenario-based projections and near-term information

Chapter 5: Global carbon and other biogeochemical cycles and feedbacks

Chapter 6: Short-lived climate forcers

Chapter 7: The Earth's energy budget, climate feedbacks, and climate sensitivity

Chapter 8: Water cycle changes

Chapter 9: Ocean, cryosphere, and sea level change

Chapter 10: Linking global to regional climate change

Chapter 11: Weather and climate extreme events in a changing climate

Chapter 12: Climate change information for regional impact and for risk assessment

Annexes incl. options for a Regional Atlas and Technical Annexes

Glossary

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Climate processes



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**Regional climate
information**

Annexes incl. options for a **Regional Atlas** and Technical Annexes

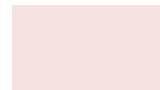
Glossary

Index



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Link to WGII



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Annexes incl. options for a [Regional Atlas](#) and Technical Annexes

Glossary

Index

Regional climate information based on robust climate science

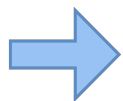
- ❖ Assessing downscaling techniques and large-scale drivers
- ❖ Scientific understanding
- ❖ Benchmarking methods and assessing uncertainties

➔ How to quantify, integrate and communicate the quality and reliability of regional climate information?

➔ What are the needs for regional climate information for an integrated, quantitative assessment of present and future climate risk at regional scale?

Atlas : a key resource of information for regions.

- ❖ AR5 : multi-model CMIP5 projections, maps with RCP4.5
- ❖ The Atlas may be an online, interactive compendium of regional climate change observations and projections on multiple time-scales, including extremes
- ❖ Towards a cross-Working Group regional Atlas for the risk assessment framework, including the end-to-end treatment of uncertainty



How to display regional climate information from multiple sources of information (incl. CMIP6 and other MIPs, CORDEX), and its reliability ?