

# The forthcoming World Climate Conference-3: relevance to APCC

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Geneva, Switzerland

31 August–4 September 2009



World  
Meteorological  
Organization  
Weather • Climate • Water

APCC Symposium, Lima, 19-21 August 2008



# Background

WMO organized two WCCs which were instrumental in bringing to the attention of policy makers and world leaders the issue of climate variability and change:

The FWCC (1979) recommended the establishment of 3 international scientific and policy activities:

- The IPCC
- The World Climate Programme
- The WCRP



# Background

WMO organized two WCCs which were instrumental in bringing to the attention of policy makers and world leaders the issue of climate variability and change:

The SWCC (1990) called for establishment of an observing system and a climate change convention:

- The GCOS
- The UNFCCC (1992)

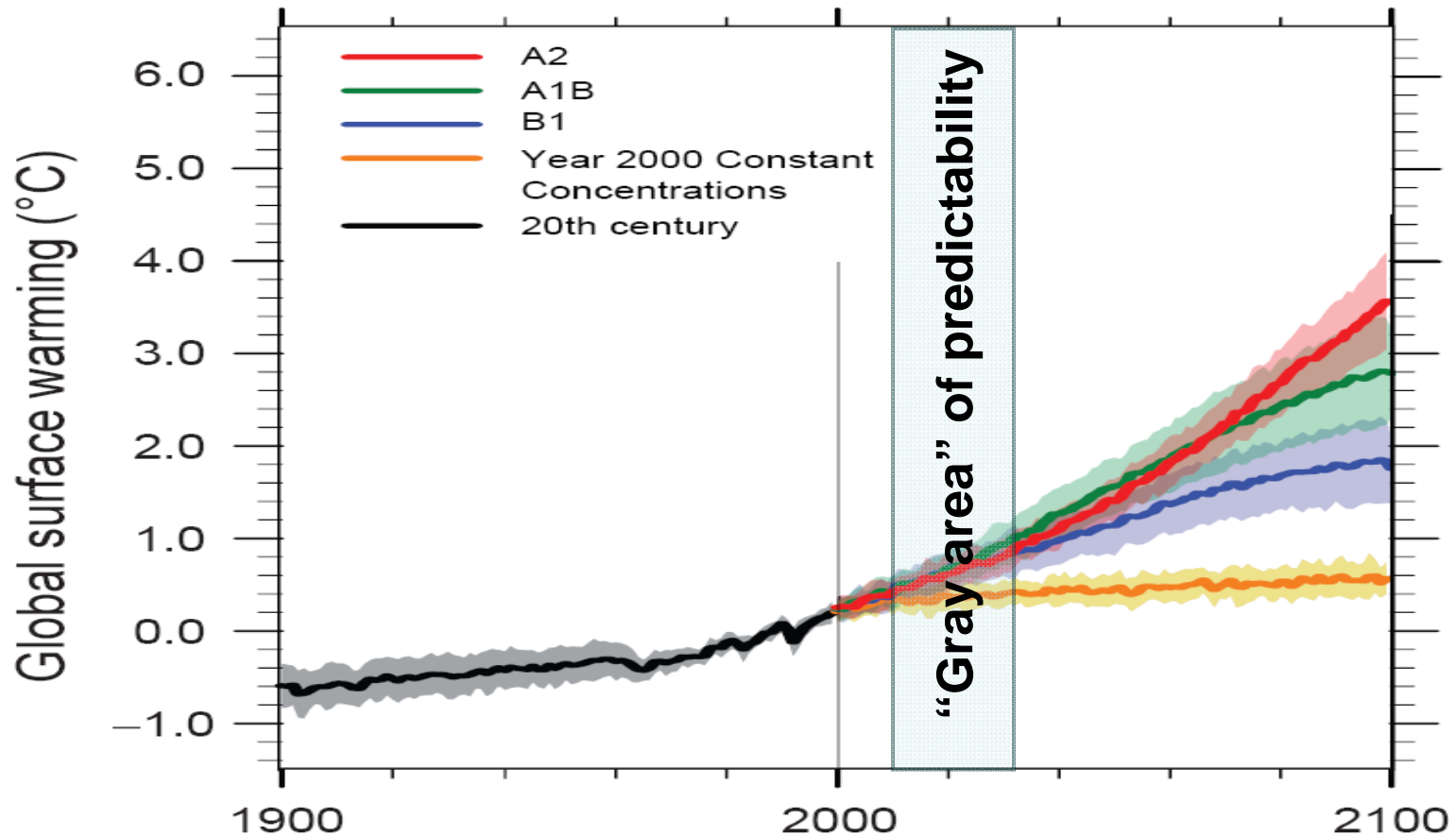


# The Climate Challenge

- Climate risks affect all nations and have been a concern in the survival and well being of peoples over generations.
- Seasonal to decadal prediction is among the top priorities to address the changing climate and reduce the impacts of future climate change.
- Policymakers and the private sector need robust and credible scientific and technical information in implementing climate services (e.g., disaster warning, climate risk management and adaptation).
- Adaptation and risk management should be one of the highest priorities under the UNFCCC and other international agreements.
- There is an urgent need to establish a framework for the provision and use of climate services at the global, regional, national and local levels.



# What will happen in the next 1-30 years?



There is a glaring knowledge gap how to manage short term/regional climate risks.

# WCC-3 Objectives

WCC-3 theme: **Climate prediction and information for decision making.**

WCC-3 will address the state of the knowledge and the capacity to mobilize climate science globally to advance seasonal to inter-annual to multi-decadal climate predictions, including current gaps.



# WCC-3 Objectives

The WCC-3 is expected to:

- Provide direction to the world community to address the risks associated with climate such as droughts, floods, heat waves, famine and disease outbreaks, among others, as a step towards disaster risk reduction and adaptation to climate change through improved climate prediction science and information services together with their integration into decision-making.
- Set the stage for nations and organizations to identify the needs of end users who can benefit from improved climate predictions and information services.
- Address the state of knowledge and the capacity to mobilize climate science globally to advance seasonal to decadal predictions.
- Negotiate the principles and discuss the global infrastructure and mechanisms to share new advances in science and information for the benefit of end users.



# WCC-3: status of planning

**WCC-3 will be held in Geneva, 31 August - 4 September 2009**

WCC-3 will have science and a ministerial segments

Organized with involvement of UN and other international agencies

**WCC-3 depends on extrabudgetary support (4 Million CHF)**

About 1/3 of the required budget has been mobilized

**Urgent need for obtaining additional financial or other assistance**



# WCC-3 Expected Outcomes

- enhancing institutional capacity to advance climate risk management practices in relevant sectors;
- sustaining global climate observations across all relevant domains and timely data exchange;
- stewarding the climate record and providing open access to climate information;
- improving accuracy, resolution and scope of climate analyses and predictions;
- providing mechanisms for widespread delivery of timely, authoritative and user-friendly predictions and assessments of their uncertainties;
- focusing services to meet a wide variety of sectorially or regionally based vulnerabilities;
- capacity-building for activities, including training, curricula, dissemination of “best practices”, knowledge management mechanisms;
- advancing the scientific understanding of the climate system, climate variability and change and their impacts on environment and society;
- dedicating computational resources for climate analysis and predictions;
- improving climate risk management and adaptation to climate variability and change.

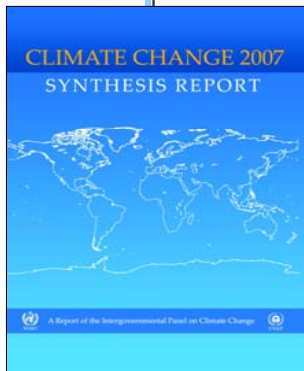
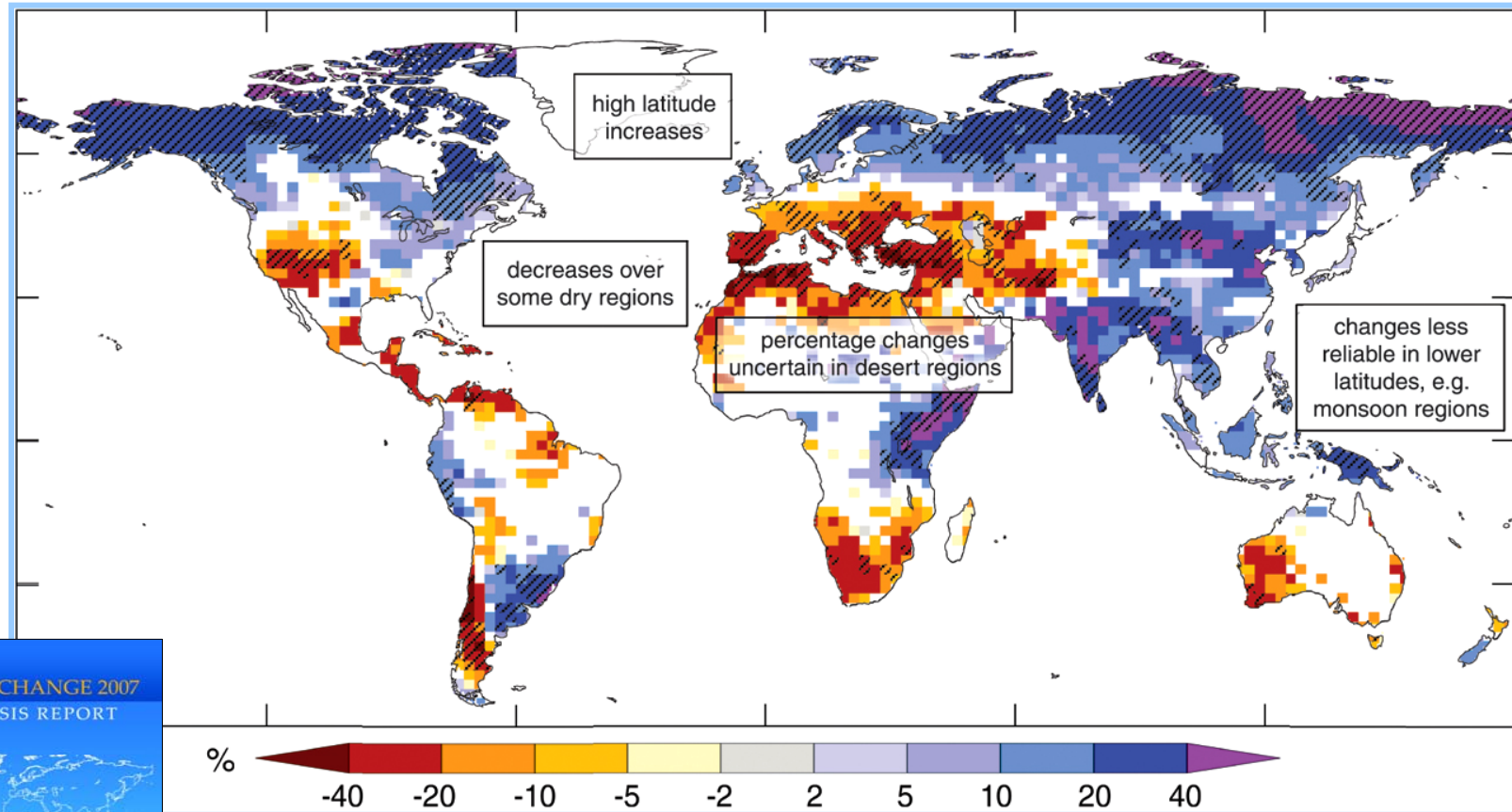


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- **dedicating computational resources for climate analysis and predictions;**
- improving climate risk management and adaptation to climate variability and change.



# Accuracy of predictions



Projections and model consistency of changes in runoff by the end of the 21<sup>st</sup> century.

IPCC, 2007



## WCC-3 is expected to comprise:

Broad participation by governments, international organizations, the private sector and end users at local levels.

A science segment of 3.5 days and a high-level policy segment of 1.5 days.

A Ministerial declaration with specific policy outcomes



# WCC-3 International Organizing Committee

WCC-3 International Organising Committee (WIOC) established with 18 members plus participation of other partners (e.g., UN agencies).

- Dr Donald MacIver (Canada) as its Chairman
- Held its first meeting on 4-6 February 2008.
- Second meeting is planned for 3-5 September 2008 in Geneva

WIOC established 4 Subcommittees

- Programme – Dr. M. Visbeck (Germany)
- Interactions & Linkages – Dr A Massacand (GEO)
- High-level – Dr J. Romero (Switzerland)
- Resource Mobilization – Ms M Power (WMO)



# WCC-3 Structure

	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
09:00 - 10:30	Welcome Addresses	Socio-economic Benefits of Climate Information and Prediction	Advancing Climate Prediction Science	Summaries from Breakout Sessions	Ministerial Declarations
	<i>Coffee</i>	<i>Coffee</i>	<i>Coffee</i>	<i>Coffee</i>	<i>Coffee</i>
11:00 - 12:30	The Climate Prediction and Information Challenge	Extreems and Hazard Early Warning Systems	Mainstreaming Climate Information	Conference Declaration	Ministerial Declarations
	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>
14:00 - 15:30	Needs for Climate Information	Climate and Human Health	Initializing Climate Predictions	Agency Support Declarations	Closing Address
parallel session	- none -	Climate and Energy	Climate and Sustainable Development	- none -	- none -
	<i>Coffee</i>	<i>Coffee</i>	<i>Coffee</i>	<i>Coffee</i>	<i>Coffee</i>
16:00 - 17:30	Round Table Discussion on Climate Risk Management	Climate and Water	Climate and Oceans	Ministerial Declarations	
parallel session	- none -	Climate and Agriculture	Delivering Regional Climate Information	- none -	
	<i>Poster Session</i>	<i>Poster Session</i>	<i>Poster Session</i>		
19:00 - 20:00	Ice Breaker	Round Table Discussion on Climate Information for Adaptation	Round Table Discussion on Communicating Climate Information	Symposium Banquet	

Advancing Climate Prediction Science

## Plenary Sessions

Climate and Human Health

## Parallel Sessions (white papers)

*Poster Session*

## Poster Sessions

Ministerial Declarations

## High Level



# WCC-3 Plenary Sessions

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18:00 - 20:00	Ice Breaker	Round Table Discussion on Climate Information for Adaptation	Round Table Discussion on Communicating Climate Information	Symposium Banquet	

Introduce the “big picture” for the conference and each of the four main subtopics with a balanced set of presentations from the scientific, operational and needs driven perspective.

Currently the following working titles are discussed:

- Needs for Climate Information
- The Climate Prediction and Information Challenge
- Socioeconomic Benefits of Climate Information
- Extreme Events and Hazards Early Warning Systems
- Advancing Climate Prediction Science
- Mainstreaming Climate Information
- Summaries from Breakout Sessions
- Conference Declaration



# WCC-3 Poster Sessions

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**Provide an opportunity for smaller groups to present their diverse inputs to WCC-3. Session may include the science base, information systems, computational needs, demonstration of successful “best practices”, regional issues etc.**

Currently three afternoon poster sessions are planned



# WCC-3 Round Table Discussions

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09:00 - 10:30	Welcome Addresses	Socio-economic Benefits of Climate Information and Prediction	Advancing Climate Prediction Science	Summaries from Breakout Sessions	Ministerial Declarations
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**Discuss with selected experts from a wide range of sectors the challenges and opportunities.**

Currently three round table discussions are planned:

- Climate Risk Management
- Climate Information needs for Adaptation
- Communicating Climate Information



# WCC-3 Science Programme: next steps

	Monday	Tuesday	Wednesday	Thursday	Friday
09:00 - 10:30	Welcome Addresses	Socio-economic Benefits of Climate Information and Prediction	Advancing Climate Prediction Science	Summaries from Breakfast	Ministerial Declarations
	Coffee	Coffee	Coffee	Coffee	Coffee
11:00 - 12:30	The Climate Prediction and Information Challenge	Extremes and Hazard Early Warning Systems	Mainstreaming Climate Information	Conference Declaration	Ministerial Declarations
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Finalize the session topics and short descriptions.

Discuss list of and invite speakers for all sessions and discussions in the Fall 2008.

Solicit community based “white papers” for the parallel discussion sessions. (Fall 2008) To be completed in draft form by Spring 2009.

Next WIOC meeting 3-5 September 2008, Geneva.



# Conclusion

The previous WCCs have been unique and successful at influencing the next decades of scientific research and societal benefits worldwide.

WCC-3's theme, objectives and expected outcomes make it highly relevant to APCC's goals and aims. APCC should thoroughly consider possible aspects of its participation in WCC-3 to ensure a significant impact on the conference outcomes.



## **Acknowledgements:**

This presentation used earlier WCC-3 presentations by Drs Buruhani Nyenzi and Martin Visbeck.



**World Climate Conference-3**

Better climate information for a better future