

WCRP Modeling Advisory Council

16 July, Beijing

Introduction

Welcome!

- Thanks for joining WMAC!
- We hope you will enjoy your tenure!
- Let's start this experience is an open-minded spirit for the benefit of all!

Mission & Objectives



World Climate Research Programme supports **climate-related decision making** and **adaptation planning** by coordinating research required to improve

- (1) climate predictions and
- (2) understanding of human influence on climate

“for use in an increasing range of practical applications of direct relevance, benefit and value to society”

(WCRP Strategic Framework 2005-2015).

• The Interdisciplinary Nature of Climate Science

- Atmosphere, Oceans and Climate
- Cryosphere and Climate
- Atmospheric Chemistry and Dynamics
- Water, Energy and Climate



• Meeting the Information Needs of Society

Activities in Support of Key Deliverables

- Decadal Variability, Predictability and Prediction
- Sea-Level Variability and Change
- Climate Extremes
- Atmospheric Chemistry and Dynamics
- Centennial Climate Change Projections
- Seasonal Climate Prediction
- Regional Climate



• Activities in Support of WCRP Integrating Themes

- Climate-Quality Data Sets and Analyses
- A New Generation of Climate/Earth System Models
- Next Generation of Climate Experts: Developing Capacity Regionally and Globally

**WCRP
IMPLEMENTATION
PLAN 2010-2015**

WCRP
World Climate Research Programme

How can WMAC make a difference?

- To promote seamless modeling and predictions, from subseasonal to centennial and from regional to global scales
- To push boundaries of ESM modeling across all domains
- To best exploit data for model initialization, verification and understanding of the Earth System
- To ensure adequate computing and monitoring resources are available for that purpose
- To better capture climate uncertainties and contributions for decision making
- ...

WMAC design

- Useful to the modeling community
- A platform for modeling dialogue
- Build synergies within and outside WCRP
- Research-oriented, end-user focused

Key factors of success

- Take ownership
- Forum for innovation
- Action oriented - measurable impact
- Whole more than the sum of the parts

Practical

- Dense agenda
- Reporting: JPS takes notes, we need your inputs and help – Google shared doc
- Presentations will be published on the Council web pages – unless we are told otherwise
- Reporting to the JSC on 17 July
- You are welcome to attend the JSC