

‘WCRP Ahead’: Directions, Plans and Outcomes

For discussion at WCRP Joint Steering Committee, April 2016

Forward (Dave, Guy)

Introduction (Dave, Guy)

- Driving forces of WCRP (context, external factors, CoP21, IPCC, etc.)
- WCRP stakeholders (global research community, climate information users, etc.) Emphasizing WCRP’s nature as community-driven effort motivated by the demand for improved understanding of climate
- Unique contribution of WCRP to society (climate assessment, etc.)

Enhancing Relevance of Climate Science to Society (Dave, Guy)

- Affirming long-term objectives / mission of WCRP
- Introducing key objectives for 2017-2022 implementation (Follow Brasseur & Carlson, introduce regional, urban)

Serving and Sustaining the Climate Community ([need ONE JSC coordinator](#))

- Next Generation of Climate Experts: Building Capacity Regionally and Globally
- Climate Data Sets and Analyses (open access, progress in model outputs and in situ datasets)
- Efficiency and effectiveness in promoting WCRP science and service

Confronting Urgent Challenges ([need TWO JSC coordinators](#))

Emerging Scientific Questions (focus on what these GC should have produced or accomplished by 2020.

Note that WCRP is enabling and stimulating the process through creation & review of GCs.)

- Decadal Variability, Predictability and Prediction
- Regional Sea-Level Variability and Change
- Climate Extremes
- Clouds, Circulation and Climate Sensitivity
- Water Availability in Breadbasket Regions
- Melting Snow and Ice
- Biogeochemistry of CO₂

Framework for implementation ([need FOUR JSC coordinators](#))

CMIP Impact and Process (use the Carlson and Eyring article, reference the GMD article)

The Building Blocks of Climate Science

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

Advisory and working groups

Strategic Approach for WCRP Implementation (*need TWO JSC coordinators*)

Key Partnerships

- GCOS
- Research programmes in Earth system science (WWRP, GAW, etc.)
- Future Earth (and partner projects, highlighting WCRP as the coordinating body of fundamental climate science)
- Climate Services

Evaluation processes (*JPS, need ONE JSC coordinator*)

- Internal, project level
- Proposals
- Cross-cutting and overview

Structure and Funding (Dave)

Resources

- Financial resources: 3-agency sponsorship, volunteer contribution of national institutions
- Structural resources: JPS, IPOs and volunteer engagement of national research programmes

Challenges and needs for sustainable support for climate research

Main (and planned) activities requiring resources during 2017-2018

Concluding Remarks
