

WORLD CLIMATE RESEARCH PROGRAMME

Introduction to brainstorm discussions on Strategy and Implementation Plans

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WDAC ToRs

- Serve as a focal point for observations and data in WCRP
- Advise JSC on issues pertaining to observations and climate data in coordination with WCRP groups
- Promote the effective use of observations with models
- Coordinated development of
 - Coupled reanalysis and data assimilation
 - Data set reprocessing and assessments
 - Observing System Sensitivity Experiments
- Identify observations requirements and gaps
- Data standards, protocols and archival









Brainstorm

- Strategic plan:
 - reference for the next 10 years (ambition!)
 - science priorities and marketing
- Your expertise and role on WDAC
- Think out the box
- Play devil's advocate
- Focus on strategy first, implementation next
- Less is better, look at the big picture
- What matters?









WCRP New Strategy: draft content

- 1. The World Climate Research Programme
- 2. Forty years of successful international climate science
- 3. The next decade of the World Climate Research Programme
- 4. Overarching Scientific Objectives of the Programme
 - O1. Understanding the climate system
 - O2. Determining predictability on weekly to decadal timescales
 - O3. Understanding projectability on decadal to centennial timescales
 - O4. Connecting climate science with policy and decisions

5. Emphases of the Programme

- E0. Climate science in support of sustainable development
- E1. The ocean in the Earth system
- E2. The atmosphere in the Earth system
- E3. The land in the Earth system
- E4. The cryosphere in the Earth system
- E5. The regions in the Earth system

6. Imperatives for the Programme

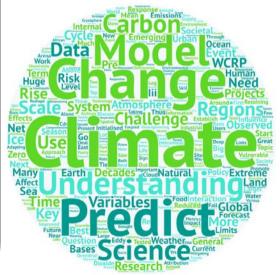
- 11. Hierarchy of Earth and Climate System Models
- 12. Observations and data sets in support of climate science
- 13. Timely assessments of the state of the climate system
- 14. Open access, high-end computing and data infrastructures
- 15. Supporting a vibrant climate community around the world
- 16. Communication and education
- 17. Outreach and societal engagement
- 18. Institutional and programmatic partnerships

7. Closure Statement



Strategic Plan 2019-2029











WCRP New Strategy: draft overarching objectives

1. Processes / understanding / analyze

Identify and constrain key processes that determine the reservoirs and flows of energy and water - and other essential elements including carbon, aerosols, nutrients, salt - within and between the components of the Earth system.

2. Predictability / seamless prediction / skill

Quantify the uncertainties and predictabilities inherent for weekly to decadal time scales of the climate system.

3. Projectability / projections / sensitivity

Quantity the sensitivities and emergent constraints inherent in the changing climate system.

4. Science for Society / policy and services

Improve the generation and use of decision relevant climate information and knowledge about the evolving Earth system, across space and time scales, due to natural variability and climate change.



Strategic Plan 2019-2029



