

# WMAC report

John Mitchell and Christian Jakob

# JSC expectations

- Not enough time and expertise in JSC to deeply discuss modelling issues
- WMAC to serve as an extension to the JSC to have those discussions and provide advice in all directions
- Identify gaps and duplication and instigate efforts to remedy them

# Community expectations

- Questionnaire was sent to all participants
- WMAC - What is it good for?
- Perceptions and worries at the start
  - Will be top-down and prescriptive
  - More work, no gain
  - Coordination is well handled in existing structure

# After a day of discussion

- Role of WMAC is mainly advisory working with all modelling groups
- Main responsibility for working-level coordination must remain with the individual groups
- WMAC as a forum for discussion and communication between the groups
- BUT: WMAC should also identify and promote priority areas, as the community is already overstretched

# Suggested shorter TORs

In partnership with WCRP projects and working groups act as a focal point for WCRP modelling and advise the JSC and WCRP community on issues pertaining to modelling.

1. Regularly assess modelling capabilities within WCRP and identify gaps, overlaps and opportunities for synergy.
2. Provide advice on priorities for modelling across WCRP including the Grand Challenges.
3. Facilitate effective communication on modelling issues within the WCRP and with the broader community.
4. Promote capacity development in modelling, model evaluation, and model application.

# Activities

- Promote model development
  - e.g., facilitate sharing of model development experience between groups through workshops but also online tools
- Model evaluation
  - e.g., promotion of new diagnostic techniques to link model error to process deficiencies
- Model application
  - e.g., assessing and communicating limitations and uncertainties
- Communication
  - e.g., white papers and synthesis papers on issues relevant to the Grand Challenges, e.g., model biases, ...

**We would like to start those now through the use of online communication tools (see below).**

# Practical issues

- Membership
  - High-level, preferably ex-officio rather than personal membership
  - Direct membership of WWRP - essential for seamless discussions
  - 2-3 JSC members assigned as liaison and attending the meeting

# Practical issues

- Meetings
  - One day at JSC is fine for now
  - Preference for a day after project and WG reports
- Support
  - WMAC and WGs do not have project office support
  - Thought needs to be given to this as support is required for websites, communication, reporting, etc.
  - should perhaps not simply be loaded onto an existing structure



# WMAC-WDAC interactions (TBC)

- Data assimilation
- Reanalyses
- OBS4MIPS
- Synergies between instrument simulator and retrieval approaches to model evaluation

# Some questions

- Autonomy from JSC - What can and can't WMAC decide/communicate without JSC approval (e.g., say a white paper)?
- Online tools and efficient communication - how to get them set up and supported?
  - e.g., report outcome of this meeting, discussion fora, repositories, ...
- Support needs discussion