

WMAC Report

1. Highlights for JSC

- WCRP/WWRP Model Development Prize awarded to Dr Irina Sandu at ECMWF
- WMAC Model Development Summer School at CPTEC in Brazil postponed to January/February 2018 due to budget issues in Brazil
- Pan-WCRP model group meeting from 9-13 October at UKMO in Exeter is becoming ever more critical for planning modelling in a budget-cut-affected WCRP and the broader WMO research landscape. We are seeking strong support from the JSC to hold this meeting despite budget constraints.
- Motivated by the WCRP budget and the WMO research restructure WMAC is initiating a discussion on the structure of the WCRP modelling activities
- S2S project Phase 1 is coming to an end – Review initiated to decide on possible Phase 2 from second half of 2018.
- Proposed change of Co-Chairs from C Jakob to F Doblus Reyes from January 2018

2. Early success and/or planned activities in 2017/2018

- Numerous science workshops and conferences organized by modelling Working Groups (S2D conference in 2013, drag workshop in 2016, systematic error workshop in 2013 and 2017, CMIP model evaluation in 2017, S2S and monsoons, etc), training workshops on cloud feedback in 2015, teleconnections in 2016 and 2017, s2s predictions in Dakar in 2016, in Singapore and South America in 2017, etc
- Pan-WCRP Modelling meeting 9-13 October 2017, Exeter, UK
- WMAC-6, 13 October 2017, Exeter, UK
- Other known plans:
 - Possible "S2D conference" in 2018 on subseasonal to decadal prediction, under the auspices of S2S, WGSIP and DCP, possibly in collaboration with CCI

3. Partners for Council's activities (within and outside WCRP community)

- WGNE, WGCM, WGSIP, CORDEX, GASS, GLASS, WWRP
- Core Projects and Grand Challenges
- Through the above, modelling centres around the world.

4. Overall Council timeline if applicable

- Proposed change of Co-Chairs from C Jakob to F Doblus Reyes from January 2018

5. Issues and challenges:

- WMACs main role is to oversee the modelling activities in the WCRP. Currently we do so through annual meetings with the chairs of the major modelling groups at the JSC. This is already a minimalist solution and not being able to have the WMAC members at the JSC is inhibiting our ability to provide sound advice to the JSC.

- Given this, the plan for a tighter collaboration in research between the WWRP, GAW and the WCRP, as well as the budget situation, the Pan-WCRP modelling meeting in Exeter in October is now of critical importance. We are counteracting budget constraints by encouraging participants to self-fund their participation. The results of a survey of how much support might be required for the meeting, noting that our local hosts are carrying all local costs, will be available at the JSC meeting.
 - WMAC has taken on the responsibility to coordinate the discussion of what a modelling programme in a more budget-constraint WCRP that is more strongly linked to the WWRP and GAW communities might look like. Once again, the October Pan-WCRP meeting will be a vital step in this discussion. In preparation, we will undertake a survey of the current WCRP modelling activities as well as trying to identify the needs of the major modelling centres.
 - WMAC will also lead a discussion on the ever-increasing gap between the use of climate model information and the community's ability to invest in their improvement and the production of the information. An example for this is the very successful and highly visible CMIP programme, which internally relies almost entirely on volunteer efforts and for which critical parts are provided by individuals with often no backup. This endangers what is one of WCRP's flagship activities and careful consideration of future phases is required.
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