

World Climate Research Programme JOINT SCIENTIFIC COMMITTEE (JSC) 41st online session

WMAC Report (draft 1)

1. Highlights for JSC

- WMAC coordinated the award of the WCRP/WWRP International Prize for Model Development 2019 awarded jointly to Dr Clément Albergel from MétéoFrance and Dr Baoqiang Xiang from the Geophysical Fluid Dynamics Laboratory in the USA and delivered at the AGU 2019.
- WMAC has provided leadership and recommendations to the JSC as part of the task team on "Model Development and Computing Infrastructure".
- WMAC provided lead support to the CMIP6 Model Analysis Workshop in Barcelona in March 2019 <https://cmip6workshop19.sciencesconf.org>.
- WMAC has participated in the WCRP Flagship Workshop in Hamburg in February 2020 <https://www.wcrp-climate.org/wcrp-hamburg>.
- WMAC has been involved in the discussions about the operationalisation of some aspects of CMIP.
- WMAC provided comments on WMO Research Board draft concept notes and drew the JSC attention on the need to ensure that climate and Earth system modelling features prominently on the Board's priorities.

2. Primary science issues (looking ahead, 3 to 5 years)

- WMAC coordinates the organization of the 3rd WCRP Summer School on Climate Model Development at NCAR in 2021. It was originally planned for 2020, but the pandemic has led to some delays.
- The JSC chair has suggested the organisation of a modelling initiative to complement the development of the implementation plan. It was initially planned for autumn 2020. It is not clear if WMAC should be in charge of organising such an event, although WMAC has already proven its ability to bring together the modelling community in events like the first-ever Pan-WCRP Modelling Groups Meeting at the UK Met Office (Exeter, United Kingdom) on 9-13 October 2017. WMAC believes that such an event would be a unique occasion to bring closer together the modelling and data communities and identify common challenges and opportunities.
- A stronger integration with the data activities would be desirable.

3. Issues and challenges, for example:

- Coordination of modelling activities is more important than ever as we move into seamless, Earth system models, Research-Operations, modelling in different places at WMO. WMAC believes that this coordination role is needed with a staff person responsible assigned for the activities across all modelling in WCRP acting as the single point of contact for all matters relating to modelling in WCRP.