



WCRP Model Advisory Council (WMAC)

40th Session of the WCRP Joint Scientific Committee

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May 2019

Geneva, Switzerland



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METEOROLOGICAL
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Progress and achievements



WCRP/WWRP International Prize for Model Development 2018



Dr Thomas Melvin has been awarded the WCRP/WWRP International Prize for Model Development 2018

WCRP is pleased to announce that Dr Thomas Melvin from the UK Met Office has been awarded the WCRP/WWRP International Prize for Model Development 2018.

The Prize Committee, consisting of representatives from WCRP, the [World Weather Research Programme \(WWRP\)](#), and the [Working Group on Numerical Experimentation \(WGNE\)](#) was greatly impressed by his strong profile and

the outstanding quality of his contributions to weather and climate model development.



Pan-WCRP Modelling Groups Meeting and 6th Session of the WCRP Modelling Advisory Council
UK Met Office, Exeter, United Kingdom, 9-13 October 2017
The Pan-WCRP Modelling Groups meeting will feature a series of plenary, individual and possibly bilateral meetings of modelling groups including [WGCMP-CMIP](#), [WGSIP](#), [WGNE](#), [S2S](#), [DCPP](#), [CORDEX-SAT](#), [CLIVAR OMDP](#) during the week and a dedicated Modeling Council session on Friday.
Agenda (as at 5 October 2017)

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Progress and achievements

- WMAC supported WGCM in holding the CMIP6 Model Analysis workshop in Barcelona, March 25-28, 2019



- WMAC meeting in Barcelona, March 28, 2019, to formulate inputs to WCRP Implementation Plan and JSC40

Future plans

- Follow up discussions with NCAR for 3rd WCRP Summer School on Climate Model Development to be held some time in 2019-2020



- Call for nominations for WCRP/WWRP International Prize for Model Development for 2019 in July with 1 October deadline. Encourage your ECRs to apply

Links to the WCRP Strategic and Implementation Plans

Recommendations on modeling activities and IP:

- Guiding principles:
 - Manage change carefully and gradually
 - Do not harm when it works
 - Changes need to be justified and require engagement
 - Timely opportunity to adjust structure
 - Further integrate activities within and outside (e.g. WWRP, GAW) WCRP
- Place model coordination role in a subset of JSC members, with a staff person responsible assigned for the activities across all modeling in WCRP acting as the single point of contact for all matters relating to modeling in WCRP.

Links to the WCRP Strategic and Implementation Plans

- Coordination of modeling activities is more important than ever as we move into seamlessness, Earth system models, Research-Operations, modelling in different places at WMO
- It requires JPS dedicated support
- Some scenarios:
 - (subset of) JSC playing coordination role
 - Maintain WMAC
 - Nothing...



Links to the WCRP Strategic and Implementation Plans

- Form an Earth system model development working group with atmosphere, ocean, land surface, sea and land ice, chemistry, aerosols, biogeochemistry (AIMES), etc.
- Need proper internal 2-way communications to leverage fundamental ‘process’ and/or ‘disciplinary’ work (e.g. from core projects)
- “Initialized simulations”: opportunities to consolidate S2S-WGSIP-DCPP, also possibly in closer connection to NWP/WWRP towards more ‘seamlessness’
- Need to acknowledge respective roles and contributions of operational and research centers, as well as academia in this landscape

Links to the WCRP Strategic and Implementation Plans

- Changes affecting WGCM:
 - opportunity to evolve into a “climate change” (‘WGCC’) with focus on longer term, uninitialized, historical and future climate change simulations and scenarios, support to assessments
 - interface with the Integrated Assessment Modeling (growing importance of societal dimension)
 - sustainability/resourcing and ‘operationalization’ of (parts) of CMIP (cf dedicated JSC40 agenda item): activity within the new “climate change working group” with a staff person hired to report to the CMIP Panel chair to coordinate funding for essential CMIP activities (e.g. forcing data sets, infrastructure)
 - needs to be deeply rooted in modeling centers
 - coordination with corresponding regional modeling