

WCRP Data Advisory Council

February 20, 2013

WCRP DAC & MAC Joint Activities

WDAC Perspectives

- Thank you for giving us an opportunity to participate in these discussions
- Broad suite of activities being addressed by WDAC and WMAC
- WDAC has the lead role for “data driven” activities
- Joint activities address model/data efforts overlaps

Areas of Mutual Interest

- ECV Inventories
- obs4MIPS
- Development of “best practices” for dataset quality assessment
- Climate data stewardship – traceability
- Reanalysis
- Data Assimilation
- Satellite Simulators
- ESGF Governance

ECV inventory

- **Background:**
 - Data set inventory proposal was developed at the Joint WCRP/GCOS workshop in Frascati, Italy in April 2011. Subsequent discussion between WOAP chair (WDAC predecessor) and NOAA/NCDC has led to an implementation plan developed by NCDC for the GOSIC data portal
 - There are ongoing activities on a data set inventory by CEOS/CGMS to establish an architecture for space-based climate monitoring. A web-based community questionnaire is forming the basis for the first version of this architecture

Quality Assessment

- Background: Promoting common approaches to data set quality assessment would facilitate model/data set comparison activities
- Recommendation: Determine and promote “best practices” current in use by WCRP programs
- Actions:
 - Multiple WCRP activities will update WDAC2 on their “best practices” for dataset quality assessment
 - Will schedule a similar dialog with WMAC on model assessment for a future meeting

Obs4MIPs

- Background: WDAC was briefed on the ongoing initiative Obs4MIPs, which makes observing datasets available in an ESGF accessible format.
- Recommendation: WDAC encourages broadening of contributions from the WCRP core projects, CEOS, CGMS, IGBP, SOLAS and the Reanalysis community to this activity, so as to populate the ESGF and further facilitate model-data comparisons
- Action: Obs4MIPs briefing at WDAC2

Reanalysis

- Background: The 4th WCRP International Conference on Reanalyses called for international coordination on input observations (*in situ* and remotely sensed covering atmosphere, ocean and land)
- Recommendation: initiate planning activities for a WCRP workshop addressing these issues
- Action: Task team composed of M. Bosilovich, A. Simmons and J. N. Thepaut to develop a proposal for this workshop, likely to be held at ECMWF in 2014

Data Assimilation

- Background: WDAC role agreed to in WDAC/WMAC ToRs.
- Recommendation: Discuss options for workshops that would address assimilation of higher space/time resolving observations
- Action: TBD

Satellite Simulators

- Background: Simulators provide synthetic data sets from model fields that can be used for comparison, observing system simulation experiments, evaluation of data assimilation, *etc.* activities
- Recommendation: WDAC will provide input to the WCRP on satellite simulators as needs arise
- Action: WDAC has a “watching” brief currently, no ongoing actions

ESGF

- Background: Earth System Grid, a national (US) project, has been internationalized and become the ESG Foundation (ESGF)
- Recommendation: WDAC will provide input to the WMAC / WGCM working groups as needed – meeting this past fall on ways forward
- Action: WDAC has a “watching” brief currently, WGCM has the lead