



WCRP Task Team on Seamless Data and Data Management

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Susann Tegtmeier and Anna Rutgersson

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Recommendations on mechanisms and structures for integrated data production and management

Current status

WCRP Data Advisory Council (WDAC)

- Coordination across WCRP (data policies, protocols, ECVs, reanalysis, fluxes, obs4MIPS)
- Coordination with main partners (GCOS, GOOS, WWRP, GAW, Future Earth) and satellite agencies

What needs to be strengthened/included ...

- New sensors and data products
- Training and education
- Guidelines on data quality control
- **Stronger synergies with modelling, data assimilation, (re)analysis and WIGOS**
- Stronger research-operations synergies (e.g., infrastructure)
- Data synthesis and data integration (long-term climate relevant data)
- Contemporary and historic archival research data.

Data panels within core projects

- Carrying out fundamental work for developing, assessing and updating several reference data sets

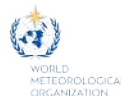
Data infrastructures

- Developed as part of initiatives (S2S, CHFP, ESGF, etc), but not necessarily interfaced or using seamless formats and best practices

Recommendations for data activities, mechanism and structures in WCRP

Coordinate observations, reanalyses, data science and management issues across the programme

- Better transfer of experiences in data management across WCRP entities
- Close collaboration with modelling group
- Coordination of reanalyses, in particular around Earth system reanalysis
- Include data assimilation (OSEs/OSSEs in coordination with WWRP/DAOS/PDEF and WGNE)
- Include data science and data mining (connect with AI/IT communities more closely)
- Interfacing/integrating (research) data infrastructure with their operational equivalent (WIS, C3S/CDS)
- Strong link to GCOS and space agency bodies to exchange on WCRP needs and space agency plans
- Promote a broader Earth System approach to observations with GCOS



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