WMAC- 3rd Meeting, Heidelberg 2nd July

1. Regional Climate Information
   • Need for evaluation of value of RCMs
   • Competition between downscaling and global modelling
   • WGRC to take lead

2. Grand challenges
   • All involved model development
   • Show-stoppers need to be identified
   • New fora for identification and exposure of issues

3. Dynamics within WCRP

4. Systematic errors

5. CMIP6 – DECK vs MIPs
   • Importance of model versioning and traceability in ESGF
   • ESGF-WIP governance remains unclear – can ESGF be used effectively across whole WCRP programme?

6. Model Evaluation – Obs4MIP
   • Need for more high-res spatio-temporal data to support model development
   • GEWEX-PROES test case to identify technical difficulties

7. Communication of model based uncertainty to users
WMAC-Actions

1. Promoting model development
   • WMAC to request model development, model and data issues to be highlighted by Projects and GCs

2. Regional climate information: Actions for WGRC
   • Evaluation strategy for regional climate information based on global and regional products
   • Synthesis paper (e.g. through science workshop - CORDEX, WGNE, WGCM, WGSIP and core projects)

3. ESGF: Action for JSC
   • ESGF talk at next JSC meeting to implement proper governance within WCRP for a whole-of-programme approach (e.g. extension of WIP or other IPs?)

4. Summer school on model development
   • WMAC to design invitation document that sets out requirements and selection criteria to host the school
   • Advertise school concept on website and link to specific school website and other relevant summer schools in the community

5. WCRP/WWRP International Prize for Model Development
   • Announcement has been made

6. Climate dynamics: Action for SPARC
   • Act as WCRP Point of Contact on atmospheric dynamics and explore need for a separate Climate Dynamics Panel

7. CMIP and DECK: Action for WGCM
   • Clarify need (or not) for DECK experiments as an entry requirement for other activities