

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