

45th Session of the WCRP Joint Scientific Committee (JSC)

27-30 May 2024

DEADLINE: 1 May

Report to the WCRP Joint Scientific Committee

CORDEX

1. Highlights for Joint Scientific Committee (including high-level publications, new achievements/products, and capacity building activities – in particular anything you feel should go into a WCRP annual achievement report or brochure)

- The CORDEX-CMIP6 Archiving Specifications for dynamical downscaling were open for comments during 2023 and have been finalized in 2024.
- The International Conference on Regional Climate-CORDEX 2023 was very successfully held in Trieste, Italy, and Pune, India, as well as online. This was the first ICRC-CORDEX that was held as a hybrid conference and with two physical hubs. <https://icrc-cordex2023.cordex.org/>
- Two Side events at the WCRP OSC; CORDEX Africa and CMIP and CORDEX Analysis and evaluation tools. Reports can be found here: <https://cordex.org/news-events/cordex-at-the-wcrp-osc-2023/>
- Many new publications:
<https://cordex.org/publications/peer-reviewed-publications/publications-2023/>
- The White paper on CMIP6 GCM selection and Matrix design for EURO-CORDEX was published, <https://zenodo.org/records/7673400#.ZAWmhezMLP8>
- Larger capacity building activities and planning meetings in several of our domains:
 - Workshop on *Climate Data Analyses and Downscaling* in Samarkand, Uzbekistan
 - Workshop on *Developing a Strategy for Future Climate Projections in South Asia* held in Nepal
 - Inception workshop and stakeholder consultation in the “Climatic hazard Assessment to enhance Resilience against climate Extremes for Southeast Asian megacities (CARE for SEA megacities)” project held in Bangkok, Thailand
 - *Annual Polar meeting* in Utrecht, the Netherlands (hybrid)
 - *The 7th International Med-CORDEX Workshop* (online)
 - *EURO-CORDEX General Assembly* (online)

A number of other online meetings were also held.

2. Planned science initiatives and major events (over next 1- 5 years)

- Establish task forces on a number of specific topics related to CORDEX CORE, downscaling methods/ML, oceans, convection permitting and preparations for CMIP7.

- *Start the planning for the next International Conference on Regional Climate-CORDEX.*
- *Several capacity building trainings/workshops in Asia, Africa, Central and South America (both regular and occasional)*
- *Further development of the Flagship Pilot Study initiative*

3. Planned Products, high-level assessments or other key outputs/publications

- *CORDEX white paper on bridging climate science with society*
- *CORDEX experiment design and archiving specifications for statistical downscaling of CMIP6*

4. Linkages with Core Projects, Lighthouse Activities, Academy etc.

- *CORDEX had a joint session at WCRP OSC with CMIP in 2023 and a joint townhall session with RfS and CMIP at the EGU24. CORDEX and RfS also had a joint Splinter meeting at EGU24 where the collaboration and integration of CORDEX/RfS was discussed and the discussion will continue.*
- *My Climate Risk had a side event at the hub in Pune, India during the ICRC-CORDEX 2023 and was also involved in the CORDEX SEA workshop in the project CARE for SEA megacities, during 2023.*
- *The Polar domain is collaborating with CliC and additional collaborations between CORDEX and CliC are being discussed for other domains.*
- *The new task forces will look for collaboration with other WCRP CPs and LHAs. Already now we have been exploring linkages with ESMO and the user side of the cascading information from global to local. Discussions with EVE etc.*
- *Claas Teichmann, Grigory Nikulin and Irène Lake are part of the Steering Group for the AR7 Impact and Adaptation Thematic data request paper.*

5. Partnerships with entities outside of WCRP

- *CORDEX has reinitiated the collaboration with MAIRS-FE and is planning a joint workshop as a continuation of previous workshops.*
- *CORDEX is discussing a potential collaboration with the ESA and EU commission initiative CopPhil for collaboration in the CORDEX Southeast Asia domain*
- *Many of the CORDEX domains are in close partnership with other organizations active in their region and the activities are usually co-funded by other partners.*
- *Within the Project CPD4Africa (earlier CRD4Africa) liaison with new and old partners have been established or reinforced, such as for instance ICPAC, AGRHYMET, ECCAS etc*

6. Suggestions, issues or challenges, for example:

- *Suggest some sort of platform/forum for WCRP CPs, LHAs and other WCRP initiatives to interact and discuss collaborations and joint efforts. For instance, in person meetings with representatives from all activities invited and digital possibilities for interaction between the meetings.*
- *There is a concern in the CORDEX community that the direct communication between WCRP JSC and CORDEX has been disrupted. CORDEX has no longer a designated liaison and all co-chairs don't have direct contact with JSC and are not invited to WCRP meetings. CORDEX needs to rely on RfS to speak on behalf of CORDEX and to be the link to the JSC.*
- *Suggest more transparency within WCRP and more bottom-up governance to ensure future engagement from the communities. Lately the process for several initiatives have been too top-down.*