

CORDEX-CMIP6 Outline

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CORDEX-CMIP5 activities

- CORDEX-CMIP5 for the 14 continental-scale CORDEX domains is over even if no deadline
- last CMIP5-driven simulations were published on ESGF in May-June 2021 and no new CMIP5-driven simulations are expected
- 12 CORDEX Flagship Pilot Studies (e.g. focus on sub-continental-scale and/or regional-scale forcings) are ongoing and not related to the CMIP cycles
- simulations generated in one FPS (Convective phenomena at high resolution over Europe and the Mediterranean) will be made available through ESGF in 2022 (a large ensemble of Convection Permitting RCM simulations at about 3km resolution over the Alpine region)
- some technical work is still necessary to make the CP RCM ensemble available through ESGF (creating a new project “CORDEX-FPS”, etc.)

CORDEX-CMIP6 activities

- CORDEX-CMIP6 experiment protocol was finalized in May 2021
- recommended resolutions: 25 and 12.5km
- work on CORDEX-CMIP6 Data Request is ongoing
- CORDEX-CMIP6 “atmospheric” variable list will be finalized soon
- a high demand for 1hr output for impact applications (3hr -> 1hr) but some concerns about data volume (a CORE set of 15 most popular variables)

Next steps (2022):

- variable lists for other realms (aerosol, ocean, etc.)
- creating CMOR tables (the same format as in CMIP6)
- new/updated Data Reference Syntax (DRA) and archiving specifications
- tools for quality control (e.g. PrePARE for CORDEX)
- a new project on ESGF (e.g. CORDEX-CMIP6)

WCRP

C  **RDEX**

Coordinated Regional Climate Downscaling Experiment