

WCRP CORDEX

Coordinated Regional Climate Downscaling Experiment

News



The 8th international Med-CORDEX Workshop, locally organised by Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA) in Rome, Italy, was a successful event. During 14-16 May 2024, about 60 participants attended onsite and some invited speakers participated online.



One of the CORDEX co-chairs, Daniela Jacob, gave a CORDEX overview online talk on the first day. There were also online talks from invited speakers Robert Vautard (IPCC-WGI co-chair) and Bart van den Hurk (IPCC-WGII co-chair).

On top of the presentations and discussions on coupled CORDEX-CMIP6 baseline runs in Med-CORDEX, there were also more original sessions such as Impact session including coastal risks and coastal cities and the Session on biogeochemical modelling.

You can read more about Med-CORDEX on their [website](#).

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User cases

Listen to Gunhild Rosqvist as she describes how she and other scientists work together with the Sami reindeer herders in the north of Sweden. Click the link below or the image to the right to see the video.

[Reindeer herders in Sweden benefit from CORDEX data.](#)

More user cases available at our website under [CORDEX User cases](#)



Reminder: Open call for CORDEX Science Advisory Team (SAT) membership

Do you want to engage in and contribute to CORDEX development as a member of the CORDEX Science Advisory Team (SAT)?

The call for nominations is **open until 30 June 2024** and self-nominations are welcomed.

Information about the call and link to the nomination form can be found [here](#).

You can also read more about the CORDEX SAT [here](#).

Please circulate and distribute this call among your communities and networks!



Med-CORDEX (Mediterranean)

Med-CORDEX is an open club of Mediterranean climate model developers and users, driven by scientific curiosity. It is self-organized, and based on voluntary efforts and is endorsed by CORDEX, Med-CLIVAR, and HyMeX.

Its scientific focus is on the regionally closed energy and water cycles, which implies developing and applying coupled ocean-atmosphere-land high-resolution climate models.

Over the past 15 years, our overarching scientific goals have been to:

- understand the past variability of the Mediterranean regional climate system and characterize its potential future evolution;
- investigate, understand, and improve the description of regional climate phenomena and
- contribute to the characterization of the impacts of Mediterranean climate change

Med-CORDEX began in 2009 as an official CORDEX domain, following the European CIRCE project and funded by the HyMeX program. It develops reference modeling frameworks to provide coordinated regional climate simulations, focusing on the various components of the Mediterranean climate system, including the atmosphere, land, ocean, and aerosols.

Multi-channel coordination is achieved through a mailing list (medcordex@meteo.fr), a website (www.medcordex.eu), a Slack-based discussion forum (medcordex.slack.com), a Zenodo community (<https://zenodo.org/communities/medcordex/>), and an active

steering committee (medcordex-sc@meteo.fr).

Med-CORDEX has published numerous scientific works, including two reference publications (Ruti et al. 2016, Somot et al. 2018b) and 145 scientific articles between 2011 and 2024, including a special issue in Climate Dynamics in 2018 and various multi-model studies.

The Med-CORDEX centralized database hosted by ENEA includes 125 datasets (12 TB uploaded, 42 TB downloaded), contributed by 15 institutes and used by 305 registered users. This database supports extensive research and collaboration within the Mediterranean climate community. Three of the first endorsed CORDEX Flagship Pilot Studies (FPSs) were proposed by Med-CORDEX, focusing on key regional climate processes and their interactions:

[Role of the natural and anthropogenic aerosols in the Mediterranean region: past climate variability and future climate sensibility](#)

[Role of the air-sea coupling and small-scale ocean processes on regional climate](#)

[Convective phenomena at high resolution over Europe and the Mediterranean](#)

Over the years, Med-CORDEX's contributions to Mediterranean climate and ocean science have been recognized by international initiatives such as Med-CLIVAR, C3S, IPCC-AR6, and MedECC-MAR1. Notably, it was the only coordinated initiative providing ocean variables from regional climate models to the IPCC-AR6 interactive atlas.

In 2023 Med-CORDEX published an updated version of the Med-CORDEX-CMIP6 baseline run protocol: [Med-CORDEX phase 3: Common protocol for the Baseline runs for the CORDEX-CMIP6 framework](#).

The current Points of Contact in this domain are:

MED-CORDEX: Erika Coppola, Bodo Ahrens, Gabriel Jordà, Gianmaria Sannino, Samuel Somot and Fabien Solmon

[MED-CORDEX domain](#)

More information on activities within our domains can be found at the CORDEX website under [Domain activities](#)



Group photo from the 6th Med-CORDEX workshop in Toulouse in 2019. The same place where it all started.

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**The International Project Office for CORDEX is hosted by
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