



The Abdus Salam
International Centre
for Theoretical Physics



ICTP/CORDEX International Workshop on Coordinated Regional Projection Research and Synthesis

DESCRIPTION:

The CORDEX community will be brought together to coordinate contributions to literature supporting IPCC AR7 WGI, addressing gaps in regional climate information, extremes, and uncertainty, while integrating new CMIP6-CORDEX simulations and AI-based regional climate emulators.

MORE INFORMATION:

A new generation of regional climate projections (CORDEX-CMIP6) will become available, together with, for the first time, ensembles produced by AI-based regional climate emulators that are expected to significantly contribute to the regional climate literature. The workshop will provide a forum to assess, compare, and integrate these emerging approaches with established regional modeling frameworks. It will also highlight recent scientific advances, including developments in high-resolution regional simulations, process-based evaluation, attribution of regional climate change, and uncertainty assessment. The workshop promotes inclusivity by providing an accessible platform for scientists from developing and underrepresented regions to engage with the CORDEX community and contribute to the literature informing the IPCC AR7 WGI assessment.

TOPICS:

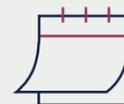
- Updates on new regional climate model (RCM) projections
- High-resolution simulations for different CORDEX domains
- Multi-model ensemble approaches and uncertainty quantification
- Downscaling added value and model evaluation
- Observational datasets for model validation
- Process-based evaluation and diagnostics
- Representation of climate extremes (heatwaves, heavy rainfall, droughts, etc..)
- Improved understanding of regional climate feedbacks
- Characterization and communication of uncertainty
- AI-based regional climate emulators
- Hybrid modeling approaches combining RCMs and AI
- Opportunities and limitations of AI-generated climate projections
- Emerging research priorities in regional climate science

SPEAKERS:

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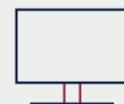
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12 - 15 May 2026



Trieste, Italy



Deadlines:
31 March 2026

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FURTHER INFORMATION:

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Female scientists are encouraged to apply

GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

