Update on CORDEX activities

Online  October 12

www.cordex.org
Restructuring of the WCRP

Lighthouse Activities
Earth System Change
My Climate Risk
Safe landing climates
WCRP Academy
Digital earths

Yellow columns: homes

Discussion of where CORDEX fits in this new structure

New structure - homes and pillars: https://www.wcrp-climate.org/wcrp-ip-structure
CORDEX update

- CORDEX White Paper (was open for comments)

Future challenges for CORDEX?

- Need for higher resolution simulations but possibly on smaller domains
- Need for increased model complexity (regional Earth System Models)
- Exascale computing
- Data and infrastructure
  - Ensure all CORDEX data is available on ESGF
  - Increased need for sub-daily data

- Coming: How to bridge climate science to society
CORDEX update

- CORDEX experiment design for dynamical downscaling of CMIP6
  - Nearly finalized

- Coming: Empirical Statistical Downscaling

- Flagship Pilot Studies
  - Regional Climate features, CP-scale
  - End-to-end perspective
  - 9 endorsed, 7 new applications

- Open meetings for POCs and FPS PIs
## CORDEX simulation overview

- Existing simulations; domain, RCM, forcing etc
- **South Asia**

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### CORDEX Simulation Details

<table>
<thead>
<tr>
<th>Domain</th>
<th>GCM_run</th>
<th>RCM</th>
<th>Evaluation</th>
<th>Historical</th>
<th>RCP2.6</th>
<th>RCP4.5</th>
<th>RCP6.0</th>
<th>RCP8.5</th>
<th>Reference (DOI)</th>
<th>Institution</th>
<th>Contact Info. (*)</th>
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<td>(1) S.L. Serland (<a href="mailto:sierreland@env.ethz.ch">sierreland@env.ethz.ch</a>) and P. Kumar (<a href="mailto:pothapakula@iau.uni-frankfurt.de">pothapakula@iau.uni-frankfurt.de</a>)</td>
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CORDEX update

- Best practices for workshops
- Platforms for communication
- Data sharing
- Training guides/templates, tutorials
Improve communication/cooperation Users-Producers
Adequate climate information communicated in an understandable and usable way to; decision makers/responsibles for VIA measures

- Water managers south of Sahara
- City planners in Manila
- Forest owners in Sweden
- Farmers in India

http://khandingenglishproject.blogspot.se/2012/12/discussion-text.html

Co-produce
Co-explore
Co-design
Co-define
Co-refine

Thank you!!