CONFERENCE PROGRAMME

Trieste

WELCOME TO
THE INTERNATIONAL CONFERENCE ON REGIONAL CLIMATE - CORDEX 2023
Trieste and Pune
25-29 SEPTEMBER 2023

Regional climate information is more than ever needed for decision-making on societal issues such as vulnerability and adaptation to a changing climate with weather/water extremes. Thus in order to pursue the use of knowledge and products the ICRC-CORDEX 2023 will bring together international regional climate information providers and users.
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<td>16.00 Outcome and insights from Flagship Pilot Studies</td>
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<td>18.00</td>
<td>18.00-20.00 Ice-breaker</td>
<td>18.00-20.00 Side events</td>
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The conference will mainly be in the Leonardo da Vinci Building and ex SISSA Building.

There are two prayer rooms, one in Leonardo building and one in Galileo guesthouse.
MONDAY 25th SEPTEMBER

● REGISTRATION ●
Time: 09.00-11.00 and 14.00-16.00 Room: Leonardo building—Main entrance lobby

● PRE-CONFERENCE MEETING CORDEX-SAT ●
Time: 14.30-17.30 Room: Leonardo building—Oppenheimer Room

TUESDAY 26th SEPTEMBER

● REGISTRATION ●
Time: 08.00-09.30 Room: Leonardo building—Main entrance lobby

● WELCOME AND KEYNOTE SPEAKERS ●
Time: 09.30-10.30 Room: SISSA Building - Aula Magna

Session co-chairs: Filippo Giorgi, Daniela Jacob and Silvina Solman
Rapporteurs: Sylvia Ampadu and Temitope Samuel Egbebiyi

Invited speakers:
Filippo GIORGI ICTP
Atish DABHOLKAR Director ICTP
Michele BABUDER Assessore all’Ambiente, City of Trieste
Raghavan KRISHNAN Director IITM
Nana Ama BROWNE KLUTSE vice chair IPCC WGI
Mario CIANCARINI ENEL
Bjorn STEVENS EVE Initiative
Detlef STAMMER Chair JSC WCRP
Silvina SOLMAN and Daniela JACOB CORDEX Co-chairs

● HEALTH BREAK ●
Time: 10.30-11.00 Room: SISSA

● SESSION A1: EARTH SYSTEM MODELLING IN THE REGIONAL CONTEXT ●
Time: 11.00-12.30 Room: SISSA Building - Aula Magna
Session co-chairs: Melissa Bukovsky and Klaus Görgen

11.00-11.15: Invited speaker Samuel SOMOT

11.15-12.30: Oral presentations
Modelling the climate change signal in the Canarian Eastern Current Upwelling System with a regional coupled model William CABOS
Regional coupled modeling to improve understanding of the Southeast Asian Climate
Quentin Frederic DESMET
Himalayan glacial anomaly as simulated by a coupled regional glacier-climate model and its syn-
optic-scale drivers Aaquib JAVED
Coupled groundwater-to-atmosphere simulations with the regional climate system model TSMP
as a contribution to the new European CORDEX-CMIP6 ensemble Klaus GOERGEN
The latest projected climate change signal over Southern Africa using the Conformal Cubic At-
mospheric Model (CCAM) Jessica STEINKOPF (NEE PICAS)
Development of a regional earth system model using a variable resolution global
grid Marcus THATCHER

● LUNCH BREAK (POSTERS) ●
Time: 12.30-13.30       Room: Leonardo building - cafeteria/terrace

● SESSION A2: CONVECTION PERMITTING MODELLING ●
Time: 13.30-15.00       Room: SISSA - Aula Magna
Session co-chairs: Maria Laura Bettolli and José Abraham Torres Alavez

13.30-13.45: Invited speaker Erika COPPOLA
13.45-15.00: Oral presentations
Tropical cyclone changes in convection-permitting regional climate projections: a study over the
Shanghai region. Erasco BUONOMO
The role of Tibetan Plateau Vortices in extreme precipitation events in the Tibetan Plateau re-
region Julia CURIO
BARPA-C: Kilometre-scale climate modelling development based on ACCESS Christian STASSEN
Detection and sensitivity to global warming of disastrous-like storms in the complex alpine ar-
ea Emanuela PICHELLI
Brand new Convection-Permitting simulations over South America: a look at the uncertainty
sources at the sub-daily time scale Francesca RAFFAELE
A new method for dynamical downscaling of heatwaves by convection-permitting climate mod-
els: event-based downscaling Fuxing WANG

● HEALTH BREAK (POSTERS) ●
Time: 15.00-15.30       Room: SISSA

● SESSION A3: STATISTICAL METHODS/MACHINE LEARNING TECHNIQUES FOR REGIONAL CL-
IMATE MODELLING/DOWNSCALING ●
Time: 15.30-17.15       Room: SISSA - Aula Magna
Session co-chairs: Fatima Driouech, Jason Evans and Douglas Maraun
15.30-15.45: Invited speaker José Manuel GUTIERREZ
15.45-17.15: Oral presentations

A storyline approach to select the CMIP6 model ensemble to be downscaled for the South America domain
Andressa ANDRADE CARDOSO
Convolutional neural networks for local climate downscaling: precipitation extremes in the FPS in Southeastern South America
Maria Laura BETTOLLI
RCM-emulators: A study of applicability to large GCM ensembles
Antoine DOURY
Should we bias correct boundary conditions for regional climate models?
Jason EVANS
Introducing eXplainable Artificial Intelligence to assess Deep Learning Models for Statistical Downscaling
Jose GONZÁLEZ-ABAD
Can deep-learning models extrapolate to downscaling rainfall in future climates?
Neelesh RAMPAL

Design of Experiments and Machine Learning (DoE & ML)-based approach to better capture uncertainty in future climate projections
Carla VIVACQUA

● POSTER SESSION A ●
Time: 17.15-18.00       Room: Leonardo Building - main entrance level

● ICEBREAKER RECEPTION ●
Time: 18.00-20.00       Room: Leonardo Building - cafeteria/terrace

WEDNESDAY 27th SEPTEMBER

● REGISTRATION ●
Time: 09.00-09.30       Room: SISSA

● CORDEX PANEL DISCUSSION ●
Time: 09.30-10.30       Room: SISSA - Aula Magna

Session chair: Irene Lake

Rapporteurs: Daniel Abel and Temitope Samuel Egbebiyi

Highlights from a long and successful career in regional modelling and CORDEX

9.30 Opening from chair Iréne LAKE

9.35 Filippo’s life and work William GUTOWSKI

9.50 Filippo’s deeds Presentations and plenary discussion:
Silvina SOLMAN
Linda MEARNS
Colin JONES (Video)
Erika COPPOLA
DAILY SCIENTIFIC AND SOCIAL EVENTS

Ramon FUENTES FRANCO
Daniela JACOB

10.25 Filippo GIORGI

10.40 Wrap-up Iréne LAKE

● HEALTH BREAK ●
Time: 10.30-11.00  Room: SISSA

● INSIGHTS FROM SESSION A AND DISCUSSION ON THE FUTURE SCIENTIFIC DEVELOPMENT AND PRIORITIES ●
Time: 11.00-12.30  Room: SISSA - Aula Magna
Session co-chairs: Daniela Jacob and Silvina Solman

● LUNCH BREAK (POSTERS) ●
Time: 12.30-13.30  Room: Leonardo building - cafeteria/terrace

● PLENARY SESSION B: CORDEX INTERACTION WITH SOCIETY ●
Time: 13.30-15.30  Room: SISSA - Aula Magna
Session co-chairs: Amira Nasser Mostafa and Dominique Paquin

13.30-14.00: Invited speakers William GUTOWSKI and RIFs representative
14.00-14.45: Oral presentations

Lessons learned about the use of downscaled climate model results for practical use Rasmus BE-NESTAD
Capacity development for climate science – CORDEX and the WCRP Academy Christopher James LENNARD
Regional Climate Modeling in North America and Europe: Why such Different Paths? Linda ME-ARNS

14.45-15.30: Panel discussion

● HEALTH BREAK ●
Time: 15.30-16.00  Room: SISSA
● OUTCOME AND INSIGHTS FROM PILOT FLAGSHIP STUDIES ●
Time: 16.00-17.00    Room: SISSA - Aula Magna
Session co-chairs: Daniela Jacob and Silvina Solman

● POSTER SESSION B AND GENERAL ●
Time: 17.00-18.00    Room: Leonardo building - main entrance level

● EVENING SIDE EVENTS ●
Time: 18.00-20.00    Room: Adriatico Guest House
• Early Career Scientist event (Adriatico Guest house Cafeteria).
• Flagship Pilot Study: URBan environments and Regional Climate Change (URB-RCC) (Adriatico Guest house - Giambiagi Lecture Hall).
• Mediterranean CORDEX domain (Lundquist meeting room - Adriatico Guest house).

THURSDAY 28th SEPTEMBER

● REGISTRATION ●
Time: 09.00-09.30    Room: SISSA

● PARALLEL SESSIONS C1 (SISSA—AULA MAGNA) and C2 (LEONARDO BUILDING—BUDINICH LECTURE HALL) ●
Time: 09.30-11.00    Room: SISSA and Leonardo building

C1 - Societal Impacts (SISSA—AULA MAGNA)
Session co-chairs: Natália Machado Crespo and Michelle Simões Reboita

Oral presentations
Climate Response to Land-Use Changes over North America and Europe Olivier ASSELIN
Margarida 17th of June 2017, an Extreme Fire Event in Pedrogão Grande, Central Portugal Rita CARDOSO TAVARES
Impact of climate change in Mexican wine grape regions Blanca Natalia CASTILLO
The Intersection of Climate and Renewable Energy Research: Successes and Limitations Andrea HAHMANN
Climate change in Sweden with impacts for reindeer husbandry Erik KJELLSTROM
Quantification and allocation of uncertainties of climate change impacts on hydropower potential under 1.50C and 2.00C Global Warming Levels in the the Benue River Basin, Cameroon Rodric Merime NONKI
Checking the performance of Regional Climate models in determining Flooding at Basin Scale using Global Hydrodynamic model Hrishikesh SINGH
Performance of CORDEX models in reproducing block-level meteorological droughts characteris-
C2 - Natural ecosystem impacts (LEONARDO BUILDING—BUDINICH LECTURE HALL)

Session co-chairs: Ismaila Diallo, Tereza Cavazos Pérez and Marco Reale

Oral presentations

Modeling the Impact of Climate Change on Flood and Drought: case study Awash River Basin, Ethiopia Ermias BRHANE

Evaluation Of High-Resolution Climate Run Of Alaro-0 Over The CORDEX-Africa Domain Laura DECORTE

The coupled physical-biogeochemical model SHYFEM-BFM for scenario analysis in the regulated Venice Lagoon system Donata MELAKU CANU

Future wildfire conditions in Ukraine under the RCP 8.5 climate scenario Inna SEMENOVA

Assessment of the regional climate model RegCM5 and atmospheric chemistry simulation over Africa Eric YAO

Dynamical Downscaling of CMIP6 Models over the Med-CORDEX Region: An Application of ENEA-REG 2.0 to the Assessment of Expected Climate Change Impacts Maria Vittoria STRUGGLIA

Climatic and Anthropogenic Vulnerabilities of the Himalayan Ecosystem Pankaj KUMA

● HEALTH BREAK ●
Time: 11.15-11.30  Room: SISSA and Leonardo Building

C1 and C2 joint panel discussion

Time: 11.30-12.30  Room: SISSA—Aula Magna

Invited speaker: Bart van den HURK

Panellists: Lola CORRE, Hailemariam DOKO, Eleni KATRAGKOU, Gaby LANGENDIJK and Douglas MARAUN.

● INSIGHTS FROM B - DISCUSSIONS ●
Time: 12.30-13.30  Room: SISSA—Aula Magna

Session co-chairs: Daniela Jacob and Silvina Solman

● LUNCH BREAK (POSTERS) ●
Time: 13.30-14.30  Room: Leonardo building - cafeteria/terrace

● PARALLEL SESSIONS D: CORDEX IN PRACTICE ●
Time: 14.30-17.00 (with health break 15.30-16.00 in SISSA and Leonardo building)

Session D1 - CORDEX-Ocean: Towards a CORDEX framework for Ocean Regional Climate Modelling (online and Trieste) (Leonardo building - Oppenheimer room)

Conveners: Samuel Somot (Med-CORDEX), Marine Herrman (CORDEX South-East Asia), Markus Meier (EURO-CORDEX, Baltic Earth) and Tereza Cavazos (Central America CORDEX).
14.30-15.30 Introductory talks

Chairs: Tereza CAVAZOS and Marcus MEIER

Introduction (5 min) Tereza CAVAZOS
Dynamical downscaling of future ocean climate for Mexican coastlines, towards the evaluation of future species’ ranges and ecosystems shifts (5 min) Paulina CETINA HEREDIA
Quantifying air-sea heat fluxes over Southeast Asia and their response to climate change (5 min) Hue NGUYEN
Mercury fate and transport in the Mediterranean Sea: current state and projected changes under RCP4.5 and RCP8.5 emission scenarios (5 min) Ginerva ROSATI
Regional Climate System Modeling for the Baltic Sea region – an overview about Baltic Earth activities (10 min) Markus MEIER
Regional physical-biogeochemical coupled ocean modeling at the Gulf of Mexico (10 min) Sheila ESTRADA-ALLIS
High-resolution studies of the South East Asia regional climate system with a focus on ocean (10 min) Marine HERRMANN
Modelling the Sea in Med-CORDEX: a review (10 min) Samuel SOMOT

15.30-16.00 Health break

16.00-17.00 Discussion

Chairs: Marine HERRMANN, Markus MEIER, Samuel SOMOT

Short introduction: Main objectives of the discussions (5 min) Samuel SOMOT
Discussions

Session D2- Regional Climate Modelling in the Polar Regions: Applications and the road ahead (online and Trieste) (Galileo Guest house - Fibonacci Lecture room)

Conveners: Priscilla A. Mooney, Annette Rinke and John Cassano

14:30 [invited] Oskar Landgren (Met Norway), Developing km-scale climate projections for impact studies over Svalbard.
15:00 Priscilla A. Mooney (NORCE and Bjerknes Centre for Climate Research), Developing future climate projections for impact studies in the polar regions.
15:20 Annette Rinke (AWI), New Polar CORDEX model intercomparison initiative related to MO-SAiC.
15:30-16:00 HEALTH BREAK
16:00 Jan Lanwehrs (AWI), Arctic Climate Simulations with the ICON Model – Comparison with Reanalyses and Observations, with a Focus on Intrusion Events.
16:15 Heidrun Matthes (AWI), Developing Climate Information for Arctic reindeer herding communities.
16:30 Andrew Orr (UKRI-BAS), Characteristics of surface “melt potential” over Antarctic ice shelves.

Session D 3- Discussion session: Climate projections for islands (online and Trieste) (Leonardo building - Stasi Lecture Hall)
DAILY SCIENTIFIC AND SOCIAL EVENTS

Conveners: Jason Evans (CCRC), Tannecia Stephenson (UWI), Marcus Thatcher (CSIRO), Christophe Menkes (ENTROPIE, IRD, CNRS), Matthieu Lengaigne (MARBEC, Univ. Montpellier, CNRS, Ifremer, IRD, Sète, France), Ali Belmadani (ENM & CNRM, Université de Toulouse, Météo-France, CNRS, Toulouse, France).

14:30 Jason Evans Welcome/Introduction
14:40 Marie Leroux (online) Producing climate services in the Southwest Indian Ocean from CMIP6 Downscaled Data
14:52 Abhnil Prasad (online) Future Precipitation Extremes in the Small Pacific Islands
15:04 Almoustapha Amadou Malam Lacho Impacts of ocean-atmosphere coupling on precipitation in small islands: a case study of the Cape Verde archipelago.
15:16 Ali Bel Madani Downscaling climate projections over small islands and territories: The cases of French West Indies and French Guiana
15:30 Health break
16:00 Misnawati Misnawati Assessing Rice Yield Change based on CORDEX-Southeast Asia simulations in Sumatra
16:12 Vishnu Sasidharan Nair CLIPSSA: High-Resolution Island Scale Climate Simulation for Improved Adaptation Strategies in the Southwest Pacific Region
16:24-17.00 Discussion

Session D4 - Climate services for transformation using CORDEX datasets: best practices using FAIR principles and innovative tools (online and Trieste) (SISSA - room B)

Conveners: Claas Teichmann (GERICS), Armelle Remedio (GERICS), Helena Martins (SMHI), Ángel G. Muñoz (BSC), Lars Buntemeyer (GERICS), Christine Nam (GERICS), Francisco Doblas-Reyes (BSC), Gaby S. Langendijk (GERICS), Katharina Bülow (GERICS), Ludwig Lierhammer (GERICS), Marjana Brkić (CPN), Marta Terrado (BSC), Peter Hoffmann (GERICS), Ross D. Dixon (UNL).

14:30-15:30 (1st part)
• 4 talks (10 min each)
  ○ SOBOLOWSKI Stefan EURO-CORDEX CMIP6 GCM Selection & Ensemble Design: Best Practices and Recommendations
  ○ FERNANDEZ-GRANJA Juan Antonio Performance, Dependencies and Spread of the CMIP Global Climate Models for selected CORDEX domains as described by the low-level circulation.
  ○ HORANYI Andras Climate projection datasets in the Copernicus Climate Change Service’s (C3S) Climate Data Store (CDS)
  ○ STRANDBERG Gustav Tailored CORDEX data for the Swedish energy sector – a stakeholder focused approach
• 2 poster-pico-presentation (2 min each)
  ○ SCHUCHNÉ BÁN Beatrix, EURO-CORDEX data in the climate services of the Hungarian Meteorological Service
  ○ OVCHARUK Valeriya, Development of Multilevel Local, Nation- and Regionwide Education and Training in Climate Services in Ukraine
• 15 min for discussion
DAILY SCIENTIFIC AND SOCIAL EVENTS

Session D6: High resolution urban climate modeling and regional climate change – progress and challenges for CORDEX (online and Trieste) (SISSA Main Auditorium)

Conveners: Dr. Tomas Halenka, Dr. Gaby S. Langendijk, Dr. Sri Raghavan and Mr. Muhammad Ammar.

14.30-15.30
Opening of session
Tomas Halenka & Gaby Langendijk
• CORDEX FPS URB-RCC
• CORDEX and involvement in IPCC AR7 Special Report on cities
• Connection to WCRP OSC - RCM community

1). 5 talks 9 min presentation + 2 min questions
Evaluation of the AROME CP-RCM for the study of urban climate in the Paris region and impacts under hot weather conditions Aude LEMONSU
Representation of the Urban Heat Island in CORDEX-CORE: A global multi-city analysis from the CORDEX FPS URB-RCC Jesus FERNANDEZ FERNANDEZ
Representation of UHI characteristics of different European cities by the first ensemble of convective-permitting simulations. Sophie BASTIN
Climate Change Scenarios and Urban Modelling for City of Prague Tomas HALENKA
Towards climate services for health based on very high-resolution future climate information for cities Peter HOFFMANN

15.30 - 16.00 Health break

16.00 - 17.00
5 talks 9 min presentation + 2 min questions
The contributions of urbanization to a mega-heatwave in the Yangtze River Delta urban agglomerations Jiacan YUAN
Urban Climate Simulation in the Metropolitan Area of Buenos Aires (SUrAMBA): Sensitivity study on model configuration. Luis MUÑOZ PABÓN
WRF projected temperature change over MENA from regional to urban scales Katerina KONSTANTINIDOU
Impact of planetary boundary layer schemes on simulation of East Asian winter monsoon using a regional climate model Seok-Woo SHIN
Where to for CORDEX downscaling in the global south. Is the answer in the clouds? Christopher James LENNARD

Session D7: Training on how to compare bias-corrected Regional Climate Models (RCMs) with Empirical Statistical Downscaling (ESD) for robust future climate change projections, exploring tools/products (online and Trieste)
DAILY SCIENTIFIC AND SOCIAL EVENTS

Conveners: Huikyo Lee (Jet Propulsion Laboratory, California Institute of Technology, USA), Rasmus Benestad (Norwegian Meteorological Institute (NMI), Norway), Abdelkader Mezghani (NMI), Kajsa Parding (NMI), Ian Brosnan (NASA Ames Research Center, USA), Alexander Goodman (Jet Propulsion Laboratory, California Institute of Technology, USA).

Participants have to bring their own laptops to attend this training session.

14.30 – 15.30 (Speaker: Abdelkader Mezghani & Rasmus Benestad)
14.30 – 14.35 Welcoming words and introducing the session
14.45 – 15.30 Hands-on training (ESD)
   1. Bring in your own observation data or use ERA5 or equivalent gridded data as observations for those who wants to downscale GCM ensembles using ESD,
   2. Run sample/custom scripts to downscale precipitation and temperature
   3. Downscale precip or temp to a region of interest (using ESD), or use bias-corrected data from NASA, visualize the results, make summary plots
   4. Compare the downscaled results from a regional climate model (RCM) and ESD

15.30 – 16.00 Health break (Q&A and troubleshooting continue)

16.00 – 16.55 (Speaker: Bridget Thrasher & Hugo Lee)
16.00 – 16.10 Introducing NASA’s statistically downscaled product (NEX-GDDP-CMIP6) and RCMES system
16.10 – 16:55 Hands-on training (NEX-GDDP-CMIP6)
   1. Run RCMES commands and analyzing NEX-GDDP-CMIP6
   2. Extracting a subregion of interest and manipulate the data
   3. Process the results and produce summary plots and maps

16:55 – 17:00
• Collecting feedback from participants

Session D8: Extreme Events: Observations and Modeling (online and Pune) (Aryabhatta Hall)


Session co-chairs: Sridhara Nayak and Koji Dairaku

09.00-09.30 IST Introductory talks from Sridhara Nayak, Koji Dairaku, Suman Maity, Mandira Singh Shrestha and Lalu Das.

09.30-10.20 IST Oral presentations

Cyclone Mocha: Analyzing Impacts and Advancing Predictive Capabilities for Coastal Resilience (8 min) Mohan Kumar Das
Adequacy of ROM, a RESM, in capturing the precipitation extremes in Himachal Pradesh, India (8 min) **Jyoti Sharma**

Machine learning based lightning prediction over Eastern India (8 min) **Javed Akhter**

A study of soil water dynamics in extremely dry and wet rainfall conditions over the core monsoon zone of India (8 min) **Mangesh Goswami**

Assessment of extreme rainfall events over the Indian subcontinent during the historical and future projection periods based on CMIP6 simulations (8 min) **Suthinkumar P S**

Frequency of extremes precipitation is projected to increase during the 21st century over Indian River Basins (IRBs) (8 min) **Pawan Kumar Chaubey**

10.20-10.45 IST Poster session D8-P talks

Quantifying current and extreme precipitation events in Nepal to inform hydropower stakeholders (2 min) **Katy Richardson**

Greenhouse forcing and its amplification mechanisms on Africa's Hot days and Night (2 min) **Paul Adigun**

Optimization and evaluation of the Weather Research and Forecasting (WRF) model for wind energy resource assessment and mapping in Iran (2 min) **Nasim Hossein Hamzeh**

Impact of North Tropical Atlantic on South Asian Summer Monsoon Variability (2 min) **Ajinkya Aswale**

Exploring the Vertical Moist Thermodynamic Characteristics of the Extreme Rainfall Events over Monsoon Core Region (2 min) **Deepak P**

Future changes in the potential intensity of tropical cyclones over the North Indian Ocean in response to the thermal structure of the atmosphere and the Ocean in CMIP6 models (2 min) **Abhiram Nirmal C. S**

Evaluation of Monsoon Precipitation Extremes in WRF-based Dynamically Downscaled Reanalysis over the Indian Himalayas (2 min) **Rohtash Saini**

Unveiling the Distinguishing Features of Normal and Extreme Cold Wave Events in North India (2 min) **Athira K S**

Sensitivity analysis of physics parameterization schemes for Western Disturbances over the Indian region: A high-resolution WRF model study (2 min) **Raj Pritam Gupta**

Evaluating complexity of the soil moisture - rainfall relation over core monsoon zone of India (2 min) **Madhusudan Ingale**

Assessment of WRF Model in Simulating Heat Wave Events over India (2 min) **Priyanshu Gupta**

10.45-11.00 IST Q&A and summary

**Session D9: Aerosol impact on regional climate (online and Trieste) (SISSA Room D)**

Conveners: Marc Mallet (Meteo-France), Fabien Solmon (LAERO/OMP), Erik Kjellström (SMHI), Klaus Wyser (SMHI), Grigory Nikulin (SMHI), Helena Martins (SMHI), Johannes Quaas (Uni Leipzig), Michael Schulz (Met Norway), Annica Ekman (SU), Ilona Riipinen (SU).
14.30 Opening of session
14.35 Keynote: Ben Booth Exploring CORDEX and driving GCM differences, in the context of time evolving aerosols
14.50 Keynote: Pierre Nabat Multi-model assessment of the role of anthropogenic aerosols in European summertime climate change
15.05 Peace Olubukunmi Awoley Characterization of Aerosol Radiative Forcing under Clear-Sky Conditions during a Typical Dry Season period over West Africa
15.15 Fabien Solmon Aerosol Climate Interactions over Africa analyzed through Regional Climate Modelling.

15.30 Coffee break

16.00 Manu Thomas Response of clouds and aerosols to natural atmospheric variability in the EC-Earth3-AerChem model
16.10 Shiyu Wang Evaluation of Aerosols impact on the Asian summer monsoon with EC-Earth3-AerChem model
16.20 Oskar Landgren Recent aerosol developments in the HCLIM regional climate model

16.30 Topical discussion on aerosols in climate modelling

Session D10: Concepts and identification of global warming levels (GWLs) for regional climate services (online and Trieste) (SISSA Room A)

Conveners: members of three weather services, Deutscher Wetterdienst (D), GeoSphere Austria (A), and MeteoSwiss (CH) Nora Leps, Theresa Shellander-Gorgas, Sven Kotlarski

14.30 – 15.30 10 min General introduction to the session and 3 talks (12+3 min each)
Reference trajectory for adaptation in metropolitan France: describing the impact of global warming levels at the local scale. Lola CORRE
Deriving GWL-based products for modern climate services Harald RYBKA
Developing a concept for GWL with users – Experiences from the NUKLEUS project Kevin SIECK

15.30 – 16.00: Health break

16.00 – 17.00: Moderated discussion addressing the following questions:
1) What are the main challenges in generating GWL-based climate information at the local/regional scale?
2) Which approaches do exist and which are their respective pros and cons?
3) Do groups/service providers already have specific experiences with the acceptance of users regarding GWL-based climate information?
4) Which are the difficulties arising for users of (formerly) transient climate data and are there ways to avoid these complications?
5) Can we identify common findings which could be used for some general recommendations for deriving GWL-based products (e.g. for other services)?
DAILY SCIENTIFIC AND SOCIAL EVENTS

● POSTER SESSION C AND D●
Time: 17.00-18.00    Room: Leonardo Building

● EVENING SIDE EVENTS●
Time: 18.00-20.00    Room: Adriatico Guest House

- Flagship Pilot Study: Impact of land use changes on climate in Europe across spatial and temporal scales (Giambiagi Lecture Hall)
- North America CORDEX domain (Lundquist meeting room)
- Flagship Pilot Study: Extreme precipitation events in Southeastern South America a proposal for a better understanding and modeling and the South America community (Kastler Lecture Hall)

FRIDAY 29th SEPTEMBER

● REGISTRATION AND MORNING COFFEE ●
Time: 09.00-09.30    Room: SISSA building

● LAST DAY SESSION—INSIGHTS FROM SESSION C AND D—THE FUTURE OF CORDEX●
Time: 09.30-11.30    Room: SISSA—Aula Magna
Session co-chairs: Daniela Jacob and Silvina Solman

● CONTINUATION OF LAST DAY SESSION—CREATE YOUR FUTURE WORKSHOP ●
Time: 12.30-15.00    Room: Adriatico Guest House - Kastler Lecture Hall
CONFERENCE INFORMATION

ABSTRACTS
Abstracts can be downloaded from the ICRC-CORDEX 2023 website https://icrc-cordex2023.cordex.org/

BADGES
All participants will be issued a name badge at registration. This badge will be the official pass to all sessions, health breaks, lunches and conference related events. All participants are required to wear their name badge at all times while on-site for safety and security reasons.

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The speakers mentioned in this program were confirmed at the time of publication. It is possible that due to unforeseen circumstances some speakers will be replaced or will not be able to participate. Views expressed during sessions and events featured at the International Conference on Regional Climate – ICRC-CORDEX 2023, do not necessarily reflect the views of the organizers. By registering, participants acknowledge and consent that during their attendance at the ICRC-CORDEX2023 their image or voice may be recorded via video, photograph, or any other means by an official of the conference. This content may be distributed or published at the discretion of the ICRC-CORDEX2023. If you do not wish to be recorded, you are required to formally advise the ICRC-CORDEX2023 in advance by sending a mail to smr3878@ictp.it.

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The Abdus Salam International Centre for Theoretical Physics provide free WIFI for their visitors. All participants will be provided with a username and password to log in.

LOST AND FOUND
Personal items, especially valuables, should not be left unattended in the conference area at any time. Unattended items will be taken to lost and found, located at the Leonardo Building main lobby Infopoint. All unclaimed items will be left to the Infopoint and can be recovered only in person.

LUNCHES AND BREAKS
Buffet lunches for conference participants will be served at the Leonardo Building Cafeteria on Tuesday, Wednesday and Thursday. Health breaks will take place in the exSISSA building on Tuesday, Wednesday and Friday. Thursday will be split between the two main venues, exSISSA and Leonardo Building in the morning and in connection to the D-sessions in the afternoon.
CONFERENCE INFORMATION

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POSTER PRESENTATION GUIDELINES
Posters should be on display as outlined in the poster session schedule. Poster should be put up just before the scheduled display time and taken off at the very end of the scheduled display time. Authors should be in attendance during the session and are expected to stand by their poster in order to answer questions. Poster areas will be equipped with poster boards and material to hang your poster. Local poster printing service will be available during the conference or you could bring your own poster. For further information on posters, please visit https://icrc-cordex2023.cordex.org/guidelines/.

ORAL PRESENTATION GUIDELINES
Well before the session upload your presentation (PowerPoint or PDF entitled with the session and name of the presenter) to the shared folder. The URL to the shared folder for uploading the presentation will be communicated in due course. The presentations will be presented from the computer available in the meeting room. Thirty minutes prior to the start of your session, please go to the meeting room in which your presentation is scheduled to take place and identify yourself to the co-chairs of the session. Please ensure that your file (Power Point or PDF titled with session and name of presenter) is displayed properly. For further information on orals, please visit https://icrc-cordex2023.cordex.org/guidelines/.

MEDICAL ASSISTANCE
During office hours: +39 040 2240500

REGISTRATION
Registration fees include participation in all conference sessions and the social events for which the participant has signed up. The registration is open Monday 9.00-11.00 and 14.00-16.00 and will be located in the lobby of the main building. Leonardo building. For the rest of the week the registration will be in the Main lecture hall entrance in exSISSA building and be open Tuesday 8.00-9.30, Wednesday-Friday 9.00-9.30.
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