



CORDEX-MAIRS-FE Joint Workshop Agenda October 17-18, 2024

Theme: *Multi-scale Climate-Air-Water Nexus for Sustainable Health, Food, and Energy*

Date: Oct 17-18th

Location: College of Environmental Sciences and Engineering, B121, Peking University

Online participation:

<https://gu-se.zoom.us/j/61241902483?pwd=gLEMEcvHW9viEsYYQaaTI03VYH0mCc.1>

Time slots below are indicated in Beijing local time.

Organized by

- Coordinated Regional Climate Downscaling Experiment/Swedish Meteorological and Hydrological Institute
- Monsoon Asia Integrated Research for Sustainability-Future Earth
- Future Earth Global Secretary Hub (China)

Hosted by

- College of Environmental Sciences and Engineering, Peking University (CESE, PKU)
- Professional Committee of Environmental Sustainability Science & Innovation, Chinese Society for Environmental Sciences (CES-Envision)
- Monsoon Asia Integrated Research for Sustainability-Future Earth International Program Office (MAIRS-FE IPO)

Day 1: Intro - Understanding the Nexus and possible interdisciplinary approaches

14:00 PM - 14:40PM

Welcome, Opening Remarks & Workshop Objectives

- [Dr. Lake Iréne], Director for the International Project Office for CORDEX
- [Prof. QIN Yue], MAIRS-FE IPO Director, Peking University
- [Prof. DONG Wenjie], Future Earth Global Secretary Hub Director (China); Dean of School of Atmospheric Sciences at SYSU, APN SSC
- Welcome Address: Prof. LIU Yong (Dean of CESE, Peking University)
 - *Overview of the workshop's goals in using **Downscaling data** to address the **climate-air-water nexus***

14:45 PM - 18:00 PM

14:45 PM - 15:45 PM [Prof. QIN Yue]

Session 1 Leading Presentations: Multi-scale Climate Modeling and Downscaling Approaches to Support Air Quality, Human Health, and Energy Security

~15 minutes each; 1 hour in total

- Prof. *Guy P. Brasseur (Max Planck Institute for Meteorology)*
- Prof. *LU Xi (Tsinghua University)*
- Dr. *Shaukat Ali (Central Asia CORDEX, SickKids)*
- Prof. *XUE Tao (Peking University)*

15:45 PM - 16:05 PM Group Photo and Coffee break

16:05 PM - 17:05 PM Break-outs 1: [Dr. Lake Iréne]

- Group 1: climate downscaling data to support energy security – how could it be used; what are the main issues/gaps in information and how can we together help filling these gaps [Prof. *LU Xi*; Prof. *OU Yang*; Prof. *Michelle Simões Reboita*, location: *B112*]
- Group 2: climate downscaling data to support air quality and human health – what are the main issues/gaps in information and how can we together help filling these gaps [Prof. *DAI Hancheng*; Counsellor *Science and Innovation Tina Karlberg*, location: *B104*]

17:05 PM - 17:45 PM Break-out reports [Dr. Lake Iréne and Counsellor *Science and Innovation Tina Karlberg*, location: *Main conference room B121*]

17:45 PM - 18:00 PM Closing remarks [Prof. *ZHANG Shiqiu*]

18:00 PM – 20:00 PM Dinner

Day 2: Leveraging Regional Climate Information for Action (B121)

9:00 AM - 10: 30AM [Prof. ZHANG Shiqiu]

Session 2: Leading Presentations: Multi-scale Climate Modeling and Downscaling Approaches to Support Food, Energy, and Water Security

- Prof. *LIU Xuejun (China Agricultural University)*
- Prof. *Wang Xuhui (Peking University)*
- Prof. *BAI Zhaohai (Chinese Academy of Sciences)*
- Prof. *QIN Yue (Peking University)*

10:30 AM - 10:45 AM **Group Photo and Coffee Break**

10:45 AM - 11:30 AM Break-outs 2: [Prof. ZHANG Shiqiu]

- Group 1: climate downscaling data to support Food security – how could it be used; what are the main issues/gaps in information and how can we together help filling these gaps [*Prof. LIU Beibei, location: B112*]
- Group 2: climate downscaling data to support Water security – what are the main issues/gaps in information and how can we together help filling these gaps [*Prof. HONG Chaopeng and Prof. YU Jialing, location: B110*]

11:30 AM - 12:15 PM Break-out reports [Dr. Lake Iréne, *Main conference room B121*]

12:15 PM – 14:00 PM **Lunch break**

14:00 PM - 15: 00 PM (B121)

Session 3: Using CORDEX/Regional Climate Information to Drive Policy and Action [Prof. *ZHOU Feng*]

- Leading presentation: Prof. *LIU Beibei (Nanjing University)*
- Leading presentation: Prof. *HOU Lingling (Peking University)*
- Experience sharing: Dr. *WAN Wei (Clean Air Asia)*
- Experience sharing: *Low Chien-Tat (Geospatial Risk Lead, CWR)- Virtual*
- Experience sharing: *Linda Stevenson (APN) – Virtual*

15: 00 PM – 16: 00 PM

Session 3: Pilot Study Proposal, Break-outs 3: [Dr. Lake Iréne]

- Outline a time-limited pilot project/collaboration form to demonstrate the benefits of collaboration across disciplines and bridging the gap between science and society. Identify what is feasible to move forward with and ideas on how.
 - Regional (extreme) climate information and study + demo on air quality and health—focusing on the ‘Actions’ and discussion on communication platforms/possibilities as this is where we really bridge the gap between science and policy/users/society; funding possibilities, experiences sharing from practioners [Dr. WAN Wei and Prof. BAI Zhaohai, location: B112]
 - Regional (extreme) climate information and study + demo on water availability, food security, and food security, focusing on the ‘Actions’ and discussion on communication platforms/possibilities as this is where we really bridge the gap between science and policy/users/society [Prof. ZHANG Chuan and Julie Dado, location: B104]

16: 00 PM – 16: 30 PM Coffee break

16: 30 PM – 17: 30 PM [Dr. Lake Iréne, Main conference room B121]

- **Group Photo**
- Break-out feedbacks and discussions on the ‘best topic’
- Wrap-up and next steps.

Closing remarks

18:00 PM – 20:00 PM Dinner