



ACM2022 ASIAN CONFERENCE on METEOROLOGY 2022

November 24, 2022 Virtually online

Organized by
Chinese Meteorological Society (CMS)
Korean Meteorological Society (KMS)
Meteorological Society of Japan (MSJ)

Hosted by
Local Organizing Committee (LOC) of
Asian Conference on Meteorology (ACM,
Chinese Meteorological Society (CMS))

Welcome Message



Greetings! On behalf of the International Organizing Committee of the Asian Conference on Meteorology 2022 (ACM2022), I would like to take this opportunity to express our excitement at hosting ACM2022 virtually on November 24th, 2022.

The ACM is the continuation of the Chinese Meteorological Society (CMS)–Korean Meteorological Society (KMS) – Meteorological Society of Japan (MSJ)'s joint meeting that has been biennially held during 2005 - 2013, and the expansion of three societal meeting to other Asian countries. The first two meetings were held in Kyoto, Japan in October 2015 and in Busan in October 2017, respectively. Due to the global wide COVID-19 pandemic, the meeting was temporarily suspended since 2020. After the long break, we decide to continue our convention and hold the third ACM meeting virtually in the coming fall. The Chinese Meteorological Society is the host of this meeting. We prepare four topics under the theme of "ACM2022 - Asian Climate and Environment Changes under Global Warming". Our three societies decided to have a one-day virtual conference. Speakers are invited by three societies, especially encouraging young scholars. In addition, ACM will create a WEB for poster presentations, and all atmospheric scientists are welcome to submit posters. We prepare four topics under the theme of "ACM2022 - Asian Climate and Environment Changes under Global Warming".

Session 1: Understanding and Projecting Asian Climate Change
Session 2: Development and Applications of Meteorological Satellites
Session 3: Extreme and Disastrous Weather and Climate Events
Session 4: Physical and Chemical Processes of East Asian Air Pollution

We look forward to meeting you online!

Huijun Wang Chair of ACM2022 IOC
President of CMS

Conference Date and Schedule

Date | November 24 (Thu), 2022

Schedule in Beijing time (+1 hour in Seoul and Tokyo)

08:00-08:30	Opening Ceremony Huijun Wang, President of CMS Kyung-Ja Ha, President of KMS Kaoru Sato, President of MSJ
Session 1: Understanding and Projecting Asian Climate Change Chair: Masahiro Watanabe	
08:30-08:45	Sachiko A. Adachi, RIKEN Center for Computational Science Regional climate studies using dynamical downscaling methods
08:45-09:00	Daehyun Kang, Korea Institute of Science and Technology Role of the background state on the tropical-meteorological teleconnection for East Asia
09:00-09:15	Xichen Li, Institute of Atmospheric Physics, Chinese Academy of Sciences A dipole-like temperature pattern over Eurasian and North American continents driven by ocean temperature and sea ice variabilities
09:15-09:30	Satoru Okajima, The University of Tokyo Understanding the seasonality of the North Pacific transient eddy activity
09:30-09:45	Chang-eul Park, Korea Institute of Science and Technology Increasing population exposure to unprecedented summer heat over East Asia
09:45-10:00	Lei Wang, Fudan University Seasonal predictability of North Atlantic Oscillation and the associated surface climate
10:00-10:30	Break
Session 2: Development and Applications of Meteorological Satellites Chair: Jing Li	
10:30-10:45	Sang-Moo Lee, Seoul National University Estimating ocean surface wind speeds from Advanced Microwave Scanning Radiometer 2 measurements
10:45-11:00	Chao Liu, Nanjing University of Information Science and Technology Fast radiative transfer models and its applications for Fengyun satellites
11:00-11:15	Masashi Minamide, The University of Tokyo Predictability of Mixed Convection and Tropical Cyclones through All-sky Infrared Satellite Radiance Assimilation
11:15-11:30	Emmylee Seo, Pukyong National University Assimilation of SMAP and ASCAT soil moisture retrievals into the JULES land surface model using the Local Ensemble Transform Kalman Filter
11:30-11:45	No Yu, National Satellite Meteorological Center FengYun Meteorological Satellite Products and Application Capabilities
11:45-12:00	Chie Yokoyama, The University of Tokyo Future projections of Bias precipitation characteristics combining GPM DPR observation and GCM Models
12:00-14:00	Poster session
Session 3: Extreme and Disastrous Weather and Climate Events Chair: Myong-In Lee	
14:00-14:15	Woosuk Choi, Sejong University Heat wave initiation and duration over Korea
14:15-14:30	Yu Du, Sun Yat-sen University The coupling of gravity waves and convection
14:30-14:45	Michio Hayashi, National Institute for Environmental Studies Extreme ocean warming events near Japan and climate change
14:45-15:00	Jonghan Kim, Pohang University of Science and Technology CMIP6 model-based assessment of human contribution to 2020/21-like persistent Iran meteorological droughts
15:00-15:15	Li Li, Nanjing University The importance of data assimilation components for analyses and forecasts
15:15-15:30	Yohel Yamada, Japan Agency for Marine-Earth Science and Technology Large ensemble simulation for investigating predictability of precursor vortices of Typhoon Faxai in 2019 with a 14-km mesh global nonhydrostatic atmospheric model
15:30-16:00	Break
Session 4: Physical and Chemical Processes of East Asian Air Pollution Chair: Yongyun Hu	
16:00-16:15	Guaman Geng, Tsinghua University Drivers of PM _{2.5} air pollution deaths in China 2002-2017
16:15-16:30	Syutchi Itahashi, Central Research Institute of Electric Power Industry Variations in transboundary aerosol compositions according to recent emission trends over East Asia
16:30-16:45	Kel Kawai, Nagoya University Importance of Asian dust for ice nucleating particles in mixed-phase clouds
16:45-17:00	Ja-Ho Koo, Yonsei University Analysis of back-trajectory patterns according to the PM _{2.5} in South Korea
17:00-17:15	Hyo-Jung Lee, Pusan National University Spatial and temporal variability of ozone formation regime over East Asia
17:15-17:30	Lin Zhang, Peking University Environmental benefits and household costs of clean heating options in northern China
17:30-18:00	Closing Ceremony Yongyun Hu, on behalf of LOC

Conference Website

<https://www.acm2022.cn/>

Click on the left hand side for the zoom meeting registration
Sign up for poster submission

History and Objectives

The Chinese Meteorological Society, the Korean Meteorological Society, and the Meteorological Society of Japan have been organizing joint conference on meteorology since 2005. After the sixth conference held in China in 2013, the three societies agreed to expand the conference and encourage participations from Asian countries, with a new conference title of the Asian Conference on Meteorology (ACM). The conference has been held for every two years, hosted by the three societies taking turn. The first conference was held in Kyoto, Japan in October 2015, and the second was held in Busan, Korea in October 2017. Due to the COVID-19 pandemic, the physical conference was paused by four years since 2017, and now, the third conference will be held virtually in November 2022.

The purpose of the joint conference is to enhance the development of atmospheric science, promote international academic exchange, organize regional activities in the field of meteorology, and create an academic exchange platform for meteorological societies of Asian countries.

International Organizing Committee (IOC)

CMS Chinese Meteorological Society

- Prof. Huijun Wang Nanjing University of Information Science and Technology
- Prof. Yongyun Hu Peking University
- Prof. Lei Wang Fudan University
- Prof. Jing Li Peking University

KMS Korean Meteorological Society

- Prof. Kyung-Ja Ha Pusan National University
- Prof. Seon-Ki Park Ewha Womans University
- Prof. Myong-In Lee Ulsan National Institute of Science and Technology

MSJ Meteorological Society of Japan

- Prof. Kaoru Sato The University of Tokyo
- Prof. Masahiro Watanabe The University of Tokyo
- Prof. Toshihiro Takemura Kyushu University

Local Organizing Committee (LOC)

Members

- | | |
|-------------------|---|
| Prof. Huijun Wang | LOC Chair, Nanjing University of Information Science and Technology |
| Prof. Yongyun Hu | Peking University |
| Prof. Lei Wang | Fudan University |
| Prof. Jing Li | Peking University |