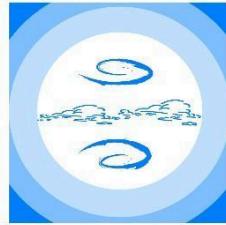


# International Association of Meteorology and Atmospheric Sciences (IAMAS) Association Internationale de Météorologie et des Sciences de l'Atmosphère (AIMSA)



International Association of Meteorology  
and Atmospheric Sciences

[www.iamas.org](http://www.iamas.org)

## INTRODUCTION

IAMAS is a research association of the International Union of Geodesy and Geophysics (IUGG) that focuses on all aspects of the gaseous envelope around the Earth and other planets. The main work is conducted, coordinated, and communicated through IAMAS's 10 International Commissions, which, in alphabetical order, are the:

- International Commission on Atmospheric Chemistry and Global Pollution (iCACGP),
- International Commission on Atmospheric Electricity (ICAE),
- International Commission on Climate (ICCL),
- International Commission on Clouds and Precipitation (ICCP) including the Committee on Nucleation and Atmospheric Aerosols (CNAA),
- International Commission on Dynamical Meteorology (ICDM),
- International Commission on the Middle Atmosphere (ICMA),
- International Commission on Planetary Atmospheres and their Evolution (ICPAE),
- International Commission on Polar Meteorology (ICPM),
- International Commission on Tropical Meteorology (ICTM)\*
- International Ozone Commission (IOC), and
- International Radiation Commission (IRC).

All the international commissions, and IAMAS as a whole, play a leading role in global coordination, communication and discussion of the latest research through organizing and participating in a wide range of scientific meetings that are open to all scientists.

\* The IAMAS Bureau has supported activities supporting the development of a new commission on Tropical Meteorology. The formal decision on forming such a commission will be taken by the IAMAS Delegates at their 2025 Assembly.

# ADMINISTRATION

## IAMAS Bureau Meetings

Monthly meetings are held virtually by zoom. The bureau regularly invites different members-at-large and commission presidents to attend these meetings. An in person meeting was held 21-23 May, 2024 at the Ecole Nationale Supérieure, département des géosciences, Paris. The next in-person meeting of the Bureau will be held 20-25 July, 2025 during our Assembly in Busan, Korea

## Funding

IAMAS held an open call for proposals for activities to be undertaken in 2025 by its commissions with a deadline in October 2024 for consideration both by IAMAS directly, and forwarding to IUGG for its consideration. As a result, IUGG funded six proposals totalling 50,000 USD and IAMAS funded another fifteen proposals totalling 86,800 USD. The next open call for proposals from our commissions will have a deadline in September, 2025 in alignment with the planned IUGG proposal deadline.

The list of funded IUGG and IAMAS activities in 2024 is as follows.

### **IAMAS Early Career Committee:**

- Support for ECR participation in BACO2025, Busan, Korea, 20-25 July 2025

### **ICACGP:**

- 21st Global Emission Initiative (GEIA) Conference, Abidjan, Ivory Coast, 9-11 July, 2025
- iCACGP Business Meeting at BACO25, Busan, Korea, 20-25 July 2025
- ACAM Workshop and Training School, Bali, Indonesia, 9-13 June 2025
- IGAC-iCACGP ECR online conference, 2025

### **ICAE:**

- International Symposium on Lightning Physics and Lightning Meteorology, Beijing, China, 23-26 April 2025
- ICAE Commission Business Meeting, San Francisco, December 2025

### **ICCL:**

- Climate and Cryosphere Open Science Conference, Wellington, New Zealand, Feb 9-12, 2026 (clic2026.com)

### **ICCP:**

- ICCP Business Meeting at BACO25, Busan, Korea, 20-25 July 2025

- Eleventh WMO Scientific Conference on Weather Modification, Pune, India  
November 2025

**ICDM:**

- Resilience to Natural Hazards through AI Solutions, Frascati, Italy, May 2025
- Explaining and Predicting Earth System Change Science, Busan, Korea 15-18 July 2025
- Current and future role of dynamic meteorology, Busan, Korea 28-29 July 2025

**ICMA:**

- Improved simulations of the stratosphere for better predictions of weather, climate and extreme events (a joint QBOi-SNAPSI-QUOCA activity workshop), Cambridge, UK, 24-28 March 2025
- Workshop on 'Data Science for Weather and Climate Research' and Training School on 'Climate Data Analysis and AI in the Global South (AI4Climate)', Dakar, Senegal, October/November 2025

**ICPAE:**

- Titan: 20-year anniversary of Cassini-Huygens mission, Paris, France, 2025
- Round-table discussion for international research of planetary atmospheres at BACO25, Busan, Korea, 20-25 July 2025

**ICPM:**

- Workshop on Antarctic Meteorology and Climate, Incheon, Korea 16-18 July 2025
- ICPM 2024 Business Meeting at BACO25, Busan, Korea, 20-25 July 2025

**ICTM\*:**

- Preparatory Commission planning meeting and lectures on “Advances and challenges in the prediction of tropical weather extremes”, Pune, India, 12 March 2025 followed by series of panel discussions as part of the preparatory meeting for BACO

**IRC:**

- Early Career Researcher participation in BACO2025, Busan, Korea, 20-25 July 2025

## **IAMAS EXECUTIVE COMMITTEE 2023-2027**

**President:** Andrea Flossmann FRANCE

**Vice-Presidents:**

- John Burrows GERMANY
- Mary Scholes SOUTH AFRICA

**Past President:** Joyce E. Penner USA

**Secretary General:** Keith Alverson CANADA

**Members at large:**

- Neil Holbrook AUSTRALIA
- Mu Mu CHINA
- Marilyn Raphael USA
- Tirusha Thambiran SOUTH AFRICA
- John Turner UK

**Early Career Scientist Representative:** Jing Li CHINA

**Commission Presidents (Ex Officio Members):** See listings below

## IAMAS COMMISSIONS

### Atmospheric Chemistry and Global Pollution (ICACGP)

**Website:** [www.icacgp.org](http://www.icacgp.org)

**President:** Mary Barth USA

**Vice-Presidents:**

- Hugh Coe UK
- Christian George FRANCE
- Judith Hoelzemann BRAZIL
- Hiroshi Tanimoto JAPAN

### Atmospheric Electricity (ICAE)

**Website:** <http://www.icae-iamas.org/>

**President:** Xiushu Qie CHINA

**Secretary:** Weitao Lyu CHINA

### Climate (ICCL)

**Website:** <https://www.iamas.org/commissions/iccl/>

**President:** Jianping Li CHINA

**Secretary:** Qiuzhen Yin BELGIUM

### Clouds and Precipitation (ICCP)

**Website:** [www.iccp-iamas.org](http://www.iccp-iamas.org)

**President:** Greg McFarquhar USA

**Vice-President:** Luis Ladino Moreno MEXICO

**Secretary-Treasurer:** Martina Krämer GERMANY

## **ICCP - Committee on Nucleation and Atmospheric Aerosols (CNAA)**

**Website:** [www.icnaa.org](http://www.icnaa.org)

**Chair:** Markku Kulmala FINLAND

**Secretary:** Katrianne Lehtipalo FINLAND

## **Dynamic Meteorology (ICDM)**

**Website:** <http://icdm.atm.ucdavis.edu/ICDM.html>

**President:** Thomas Spengler NORWAY

**Vice President:** Tim Woollings UK

**Secretary:** Craig Bishop AUSTRALIA

**Past President:** Richard Grotjahn US

## **Middle Atmosphere (ICMA)**

**Website:** <https://www.iamas.org/icma/>

**President:** Natalia Calvo SPAIN

**Vice-President:** Seok-Woo Son KOREA, Rep. of

## **Ozone (IO3C)**

**Website:** [www.io3c.org](http://www.io3c.org)

**President:** Irina Petropavlovskikh, USA

**Vice Presidents:**

- Nathaniel Livesey, USA
- Valérie Thouret, France

**Secretary:** Corinne Vigouroux, Belgium

## **Planetary Atmospheres and their Evolution (ICPAE)**

**Website:** <http://iamas.org/icpae>

**President:** Ann Carine Vandaele BELGIUM

**Secretary:** Yeon Joo Lee KOREA, Rep. of

**Vice Secretary:** Giuliano Liuzzi ITALY

## **Polar Meteorology (ICPM)**

**Website:** [www.iamas.org/icpm/](http://www.iamas.org/icpm/)

**President:** Matthew Lazzara USA

**Secretary:** Tracy Moffat-Griffin UK

## **Radiation (IRC)**

**Website:** <https://www.iamas.org/irc/>

**President:** Manfred Wendisch GERMANY

**Vice President:** Hajime Okamoto JAPAN

**Secretary General:** Christine Chiu USA

# ACTIVITIES

## Events

IAMAS held its last General Assembly during IUGG-2023, in the CityCube Conference Centre, Berlin, Germany, July 2023.

The next IAMAS General Assembly will be held jointly with IAPSO and IACS from 20-25 July 2025 in Busan Korea.

## Awards

The last [IAMAS Early Career Medal was awarded in 2023 at the IUGG general assembly in Berlin to Dr. Cheng Sun](#) for his outstanding contributions to the understanding of Atlantic climate variability.

The IAMAS Early Career Medal for 2025 will be awarded at BACO25 in Busan, Korea.

## International Commission Reports

### Early Career Scientist Committee

In 2024, the major activity of the IAMAS ECS committee was to plan for the ECS event to be held during BACO-25. We had several meetings and made the final plan for two events: one ice breaking social event in the evening of the first day, and one scientific editing/proposal writing workshop during lunch.

We also made major progress by contributing to the “ECSNet: the IUGG Early-Career Scientists Network”. Jing Li was interviewed by Katia Pinheiro, the ECSNet PI about “How to get involved in IAMAS”. The interview contents were posted on the IUGG ECS webpage.

We continue to expand our network by advertising IAMAS and our committee on various occasions, including EGU, IRS meeting, IGAC conference, etc.

The ECS working group in the Chinese National Committee of IAMAS also held a series of activities in China. We co-organized the Fengyun meteorology satellite workshop, Typhoon and storm workshop between Taiwan and Chinese Mainland, and held the planetary atmosphere graduate student summer school.

### iCACGP (<http://www.icacgp.org/>)

2024 iCACGP activities

On 8 September 2024, the international Commission on Atmospheric Chemistry and Global Pollution (iCACGP) held its annual business meeting in Kuala Lumpur, Malaysia the day before the start of the 2024 iCACGP-IGAC Joint Conference. The International Global Atmospheric Chemistry (IGAC) Project is a project supported by iCACGP and Future Earth to facilitate atmospheric chemistry research towards a sustainable world.

The first session of the business meeting was joint with the IGAC Scientific Steering Committee (SSC) and the IGAC/iCACGP Early Career Researcher (ECR) SSC, totaling 28 attendees. The group discussed past and future Early Career Research activities as well as IGAC/iCACGP positioning statements, the format of future conferences, and the role of long term measurements in atmospheric chemistry research. During the afternoon session, the iCACGP members provided updates on current and future activities in their region and discussed outcomes of past visioning sessions and next steps for strategic planning for iCACGP.

The 2024 iCACGP-IGAC Joint Conference, held 9 - 13 September 2024, included sessions on air quality impacts, climate and weather impacts on air quality, fundamental chemistry processes, recent observation campaigns and new model developments, and atmospheric chemistry in the changing Earth system. There were two panel discussions on current challenges and future directions in atmospheric chemistry. An early career researcher program was run during the conference as well as an early career short course before the conference. There were ~400 participants at the conference.

The Surface Ocean–Lower Atmosphere Study (SOLAS) Project is another project supported by iCACGP and Future Earth to provide science coordination and capacity building. The 2024 SOLAS Science Conference was held 10-14 November 2024 in Goa, India. Themes during the conference included greenhouse gases and the oceans, air-sea interface and fluxes of mass and energy, atmospheric deposition and ocean biogeochemistry, interconnections between marine ecosystems, aerosols, and clouds, ocean biogeochemical control on atmospheric chemistry, and science & society/climate intervention. The conference also included two integrated themes on the Indian Ocean and upwelling systems. The conference included an early career scientists event. The conference brought together approximately 250 participants from 25 countries and regions.

The iCACGP through IUGG provided support to the workshop and school on the Molecular-Level Understanding of Atmospheric Aerosols, which was held 1-5 April 2024 in Corsica. The workshop addressed challenges in understanding the formation of aerosol particles from gaseous precursors and the initial growth of these particles, the internal structure of aerosols, aerosol phase behavior, heterogeneous and multiphase (photo)chemistry, gas-surface interactions, the ability of aerosols to

initiate ice and cloud nucleation, the evolution of aerosol optical properties, and the role of bioaerosols in the atmosphere.

In 2025, iCACGP is providing support for the upcoming IGAC/iCACGP online Early Career Researcher conference and the Atmospheric Composition and the Asian Monsoon (ACAM) workshop as well as the Global Emissions Initiative (GEIA) conference. The iCACGP is also convening two sessions and co-convening two other sessions at the BACO 2025 conference.

### **ICAE (<https://www.iamas.org/icae/>)**

ICAE Activities in 2024:

- Maintenance of the formal website for ICAE (<https://www.iamas.org/icae/>).
- Online publication of two issues of ICAE newsletters.
- Maintenance of ICAE mailing list: Mailing list for ICAE Colleagues: [icae-colleagues@googlegroups.com](mailto:icae-colleagues@googlegroups.com), ~430 Colleagues; Mailing list for ICAE Members: [icae-members@googlegroups.com](mailto:icae-members@googlegroups.com)
- Organization of one ICAE session in EGU 2024.
- Organization of ICAE EC meeting during AGU2024. This ICAE EC meeting received \$1500 financial support from the IAMAS/IUGG.

Plans for ICAE in 2025:

- Preparation of 18th ICAE 2026.
- Participate in the Busan IAMAS-IACS-IAPSO Joint Assembly 2025 (BACO-25) and organize one session.
- Organize the 2025 ICAE EC meeting during AGU2025.
- Organize the 2025 International Symposium on Lightning Physics and Lightning Meteorology (ISLP&M), Beijing, China.
- Publication of two issues of ICAE newsletter.
- Maintenance of the website for ICAE.
- Update the ICAE colleague mailing list as needed.

### **ICCL (<https://www.iamas.org/commissions/iccl/>)**

ICCL activities in 2024:

1. ICCL (co-)organized 13 symposia at the Busan BACO (IAMAS-IACS-IAPSO) Joint Assembly 2025. The titles of the symposia and the ICCL members involved are listed below:
  - IAMAS symposia
  - Joint symposia
    - M17 Atlantic Overturning Circulation: Climate Impacts and External Factors (Léon Chafik, Jianping Li)
    - M18 Monsoon systems: variability, processes, predictability, change and extremes (Jianping Li)

- M20 High resolution modelling of regional and local climate (Tomas Halenka)
  - Joint symposia
    - JMP03 High-impact Weather and Climate Extremes (Neil Holbrook, Seok-Woo Son)
    - JMP04 Antarctic Bottom Water formation, variability and trends (Zhaomin Wang)
    - JMP06 Advancing air-sea flux process understanding across diverse conditions (Greg Foltz)
    - JMP07 Past climate changes and their relevance for the future (Qiuzhen Yin, Ayako Abe-Ouchi, Emilie Capron)
    - JMP08 Tropical Pacific SST Warming Patterns: Observations, Models and Impacts (Mat Collins, Leon Chafik)
    - JMP09 El Niño/Southern Oscillation and its Global and Regional Impacts (Jianping Li)
    - JMC13 Tropical-polar interactions under rapid climate change: Processes and influences (Xichen Li)
    - JMC16 Global warming driven cryospheric loss at high latitudes and altitudes and its impact on society and ecosystems (Keith Alverson)
    - JMCP18 Sub-seasonal to Decadal Prediction (S2S-S2D) (Seok-Woo Son)
    - JMCP20 Responses of Antarctic ice shelves to changing atmospheric and oceanic forcing (Zhaomin Wang)
- 2. Six new members were nominated and accepted by ICCL:
  - Ben Kravitz, Indiana University, USA
  - Cheng Sun, Beijing Normal University, China
  - Xichen Li, Institute of Atmospheric Physics of Chinese Academy of Sciences, China
  - Gregory Foltz, NOAA Atlantic Oceanographic & Meteorological Laboratory, USA
  - Jules Kajtar, National Oceanography Centre, UK
  - François Massonnet, Université catholique de Louvain, Belgium
- 3. The ICCL meeting proposal titled “Climate and Cryosphere Open Science Conference” led by Keith Alverson was submitted to the IAMAS call for proposals for activities in 2025-26 and was accepted for funding by IAMAS. The conference is scheduled to be held in Wellington, NZ, 9-12 February 2026.
- 4. The 2024 International Forum on Pacific Island Countries Response to Climate Change (PICC 2024), co-sponsored by IAMAS, was organized by Jianping Li in Qingdao, China from July 6 to 7, 2024. The forum was hosted by the Center for Ocean Carbon Neutrality (COCN) at Ocean University of China (OUC) and focused on accelerating global cooperation and developing sustainable solutions to address the impacts of climate change on Pacific Island Countries (PICs). It received over 100 delegates from more than 10 countries, including China, the United States, the United Kingdom, Spain, Korea, Fiji, and etc.

5. A session titled “Water cycle changes over Asia: from attribution to adaptation how to communicate advanced information on climate and hazard projections to the general public” was organized by Tosi Nakaegawa at the 9th GEWEX (Global Energy and Water EXchanges core project of the World Climate Research Programme) Open Science Conference held in Sapporo, Japan from July 7-12, 2024, co-sponsored by IAMAS.
6. A session titled “A Future in Flux: Climate Projections, Tropical Cyclones, and Securing Water Resources” was organized by Tosi Nakaegawa at the 9th International Engineering, Sciences and Technology Conference (IESTEC 2024) held in Panama, October 23 – 25, 2024.
7. The 2024 International Forum on Carbon Neutrality and Sustainable Development (CNSD 2024) was organized by Jianping Li on November 17, 2024 in Qingdao, China. Nearly 60 participants from 6 countries, including China, Italy, Spain, the United Kingdom, Nigeria and Rwanda attended the conference.
8. At EGU 2024 Assembly, 14-19 April 2024, Vienna, Austria, organized monsoon session, Session AS1.18: Monsoon systems in the past and present and under future climate change (Co-convener Jianping Li).
9. At the AGU24 Annual Meeting (9-13 December 2024), Washington D.C, USA, ICCL (co-)organized 2 sessions. The titles of the sessions and the ICCL members involved are listed below:
  - Session A070: Decadal Climate Variability: Key Processes of Air-Sea Interaction, Mechanisms and Predictability (Lead Convener: Jianping Li).
  - Session A015: Ocean-Land-Atmosphere Interactions and Extreme Weather and Climate (Jianping Li as a Co-Convener).

### **ICCP (<https://www.iamas.org/iccp/>)**

In 2024, the major activity of ICCP was the convening of the International Conference on Clouds and Precipitation, held at the Jeju Convention Center in Seogwipo, Jeju between 14 and 19 July 2024. This conference was the 19<sup>th</sup> in a series sponsored by the International Commission on Clouds and Precipitation (ICCP) that began in 1954 in Zurich, Switzerland and was last held in person in 2016 in Manchester, England (the 2021 meeting organized at the Indian Institute of Tropical Meteorology was held virtually). Dr. Seong Soo Yum of Yonsei University was Chair of the Local Organizing Committee, and Dr. Greg McFarquhar of the University of Oklahoma was Chair of the Scientific Steering Committee.

There were 6 introductory plenary talks in the first morning of the conference covering topics of liquid clouds, ice clouds, mixed-phase clouds, convective clouds, tropical convection and laboratory studies. For the rest of the conference, there were 192 talks split into two parallel sessions and 299 poster presentations. Overall there were 469 attendees from 44 nations, with PR China, the United States, South Korea, Germany, India and the United Kingdom representing the countries with the greatest number of submissions. There were scientific sessions on aerosol-cloud-precipitation-radiation interactions, liquid-phase clouds, polar clouds, tropical clouds, cloud electricity, convective clouds, liquid-phase clouds, ice-phase

clouds, mixed-phase clouds, ice nucleating particles and cloud condensation nuclei, fog and visibility, turbulence and entrainment, orographic clouds, ice multiplication processes, and weather modification and geoengineering. At the banquet on Thursday evening, the newest honorary member of the ICCP, Dr. Darrel Baumgardner, gave a talk on the synergism between academia and private business.

Some innovative ideas were tried at the conference. Because there were more applications for oral presentations than available slots, a double blinded review process was used to select the oral talks where the reviewers from the ICCP committee did not know the identity of the authors of the submissions they were reviewing. All participants received 10 stickers to place on the posters they thought were the best, with the 10 posters receiving the most stickers winning the “People’s Choice Poster Award” which were presented at the ICCP Banquet on Thursday evening. A Cloud Physics Family Tree was on display throughout the conference, showing the academic lineage of all those who list cloud physics as their primary discipline—some ancestry can be traced back to 1100, but only names as far back as 1800 were displayed at the ICCP. A mentoring lunch was held on Tuesday where mid-career and senior scientists sat at tables with early-career scientists and students, engaging in dialog to hear about concerns of younger scientists and offering career advice. A social program on Wednesday afternoon, a first for an ICCP conference, allowed participants to explore Jeju Island at locations such as Bijarin Forest, Eosenugsangak Trail, Gotjawal Forest, Arte Muesum, and the Cloud Chamber at the National Institute of Meteorological Studies (NIMS).

Two meetings of the ICCP Executive commission took place during the conference. At the first, 15 new members from 13 different countries were elected to the ICCP commission, with Prof. Luis Ladino elected Vice-President. At the second, the Indian Institute of Tropical Meteorology was selected as the host for the 20<sup>th</sup> ICCP conference which will take place in 2028 with Dr. Mahen Konwar as host of the Local Organizing Committee.

There were several workshops and training events occurring immediately before or after the ICCP Conference. The 11<sup>th</sup> International Cloud Modeling Workshop (ICMW) took place at Yonsei University the week before the conference and involved intercomparison of simulations performed by different investigators of 5 unique cases applying different aspects of recent modelling innovations. A Workshop on Scientific Directions for Cloud Chamber Research was conducted at NIMS the weekend before the conference, and brought together the community to discuss recent progress and future opportunities for research involving cloud chambers, including discussion of recent and future chamber designs, aerosol/cloud measurement methods for cloud chamber research, and modelling studies related to cloud chamber research. The Workshop on Evaluation of Cloud Probe Processing Software also took place at NIMS the weekend before the ICCP. The motivation for this meeting was to aid in the development, interpretation, evaluation and standardization of software packages that process data obtained by optical array probes. Prior to the workshop, a synthetic dataset that simulates the binary data collected by optical array probes was made available to workshop participants, with the meeting dedicated to intercomparing the results from different groups who ran their codes on the synthetic datasets. Directions for future

intercomparisons were discussed. Finally, a Short Course on Cloud Microphysics and Radar Observations was held the day after the ICCP conference at NIMS. Course participants learned about challenges and future visions of cloud/precipitation particle initiation and growth, cutting-edge cloud remote sensing instruments and measurements, and synthesis of remote sensing observations and model simulations to improve the understanding of cloud microphysics.

In other activities, the ICCP journal club is continuing its monthly seminar series, with invited volunteer speakers giving presentations on various aspects of cloud physics. The link to register for the event is [available here](#).

In 2025, the ICCP will host symposia as part of the Busan IAMAS-IACS-IAPSO Joint Assembly (BACO2025) by sponsoring/co-sponsoring sessions on “Cloud-precipitation-aerosol studies,” “Weather modification and small-scale geoengineering: theory, practice and technology”, and “Dynamics and microphysics of moist convection.” ICCP members also have considerable interest in the 11th Conference on Weather Modification that will be held in Pune, India in November 2025.

### **ICDM (<https://www.iamas.org/icdm/>)**

ICDM has a total of 24 members as well as 3 emeritus members from overall 13 countries. A third of the members in ICDM are women.

In 2024, ICDM organised the ICDM workshop on Linking Weather and Climate Dynamics across Scales, held at Nanjing University International Conference Center, China, 13-19 October 2024. [Workshop website](#).

The workshop was a huge success with 130 participants on site and several 100 participants following a livestreaming online in China.

### **ICMA (<https://www.iamas.org/icma/>)**

The ICMA Business Meeting (BM) 2024 was held online on the 26<sup>th</sup> of September. Yaga Richter stepped down as ICMA member. During 2024, ICMA was preparing for BACO-25 and applied for the Middle Atmosphere Symposium to be held within BACO-25 (M10).

In 2025, ICMA will be sponsoring two workshops: a joint QBOi-SNAPSI-QUOCA activity workshop to be held on Cambridge, UK, 24-28 March on “Improved simulations of the stratosphere for better predictions of weather, climate and extreme events” and a workshop on 'Data Science for Weather and Climate Research' and Training School on 'Climate Data Analysis and AI in the Global South (AI4Climate)', Dakar, Senegal, to be held in November 2025. Both have been supported with IUGG and IAMAS funding.

The 2025 ICMA BM will be held in Busan during BACO-25.

## **IO3C (<https://www.io3c.org/>)**

In 2024, the IO3C organized the Quadrennial Ozone Symposium (QOS2024, hosted by the University of Colorado, Boulder, 14-20 July 2024) to share ozone-focused research findings and status of observations. The symposium had more than 220 participants (including 40 online), 7 Keynote talks, 6 Invited talks, 97 oral presentations (in 7 sessions), and 221 posters. The IO3C held a side meeting to vote in new members of the commission and discuss upcoming planning for the next four years.

Half of the IO3C commission was renewed, including the four officers. The list of new and continuing members can be found on the IO3C website.

In addition, during the QOS symposium dinner, the Commission presented three awards: One Dobson award for the most influential early career scientist publication and two Farman awards for lifetime career achievements in promoting and supporting ozone research and monitoring.

Following the multi-year IO3C tradition, on September 16th, the International Day for the Preservation of the Ozone Layer, the Commission published a press release to commemorate the anniversary of the signing of the 1987 Montreal Protocol on Substances that Deplete the Ozone Layer and to provide the update on the recovery of the stratospheric ozone layer.

In January 2025, IO3C members had an online meeting to welcome new members and discuss activities planned for 2025. Members responded to the survey to identify ongoing collaborations with other organizations involved in ozone research, discussed pathways to increase IO3C visibility in the social media, and brainstormed methods to optimize communications.

The IO3C regularly contributes to decision making in the areas of public distribution of the data collected by observing networks that focus on the monitoring of ozone and related species, timely submission and open-assess archival of the data, reprocessing of the Dobson and Brewer ozone historic records with the IO3C-approved ozone cross-sections, ozone records homogenization (i.e. ASOPOS2), to name a few. The Commission shares information about its activities in the WCRP APARC and NDACC newsletters, in the WMO GAW Ozone and UV Bulletin, and on Facebook.

## **ICPAE (<https://www.iamas.org/icpae>)**

In 2024, ICPAE organized a session at the Europlanet (EPSC) 2024 Conference in Berlin: EXOA6 - Planetary Atmospheres: a key to the evolution of Planets, which attracted a total of 7 oral contributions (1 of them invited) and 4 posters. The majority of the contributions (6 out of 11) were given by Early Career individuals, and some of them also received support by the committee.

During EPSC, ICPAE also organized a business lunch meeting to which members and interested individuals could attend. On that occasion, the idea of reforming some of the ICPAE membership rules was discussed (e.g., eliminating the 2-yr gap if someone wishes to be a continuous member), and there was a discussion about potential topics to focus on for future conference sessions and meetings. Among those, it was agreed to work on Climate, Space Weather in planetary atmospheres, Comparative atmospheric studies.

In 2024, 13 new individuals joined ICPAE as first term members.

### **ICPM (<https://www.iamas.org/icpm/>)**

ICPM had a relatively quiet year. ICPM are sponsoring/involved with the following sessions for BACO-25:

- M11 Polar weather and climate extremes
- JMC14 Climate Change in the Polar Regions: Observing, Modelling and Predicting High Impact Transitions
- JMC15 High latitude field campaigns
- JMCP17 Natural Hazards
- M04 Cloud-Precipitation-Aerosol Studies
- M20 High resolution modelling of regional and local climate
- JCM01 Coupling between the atmosphere and snow/ice surfaces: Observations and modelling
- JMC13 Tropical-polar interactions under rapid climate change: Processes and influences

Members have attended and presented at the ICPM endorsed 19th Workshop on Antarctic Meteorology and Climate (WAMC) and the 8th Year of Polar Prediction in the Southern Hemisphere (YOPP-SH) Meeting. It was a hybrid meeting hosted by Polar Meteorology Group, Byrd Polar and Climate Research Center, The Ohio State University. The WAMC brings together those with common interests in Antarctic meteorology, climate, forecasting and related disciplines. The three-day event focused on observational networks, numerical modeling, weather forecasting, operational/logistical interests, and Antarctic meteorological and climate research from contributors around the world. Meeting website can be found here: [https://polarmet.osu.edu/WAMC\\_2024/](https://polarmet.osu.edu/WAMC_2024/) The commission continued its social media presence with a recent addition of Bluesky.

### **ICTM\***

Members are planning the ICTM commission pre BACO meeting. This includes a mini meeting with a few lectures on 12 March 2025 to launch a series of panel discussions on the relevant topics for tropical meteorology. These topics are the following

- Moist convection and parameterization of sub-grid physical processes
- Organization of convection, Tropical storms, disturbances, and extreme weather,
- Madden-Julian oscillation in theory, observations, and prediction models,
- Tropical sub-seasonal variability and its effects on extratropics,

- Monsoons and the teleconnections, ENSO, IOD, PDO, Equatorial waves and instabilities,
- The influence of remote forcing versus regional processes on the monsoon variability,
- The influence of surface-atmosphere interactions on the sub-seasonal to seasonal prediction skill in the monsoon season,
- The influence of combined climate oscillations on extremes,
- Climate modes and their impact on tropical weather and climate,
- Modelling climate sensitivity and climate change in the tropics,
- Anthropogenic effects on tropical weather and climate.

These meetings will be conducted in hybrid mode.

### **IRC (<https://www.iamas.org/irc/>)**

The primary activities in 2024 were directed toward the organization and realization of the quadrennial symposium of the IRC, the [International Radiation Symposium 2024 \(IRS 2024\)](#) that was held in Hangzhou, China, from 17-21 June, 2024. During IRS 2024, the IRC performed its annual business meeting on June 18, 2024. Key topics of discussion during the IRC business meeting included: the financial status of the IRC, an overview of upcoming meetings, and presentations from the 12 current IRC working groups. In addition, the new IRC officers for the 2025-2028 term were elected at this meeting. The upcoming election of IRC Commissioners for the 2025-2028 term was also discussed.

The following list comprises the Working Groups of the IRC:

1. ASA - Atmospheric Spectroscopy Applications
2. BSRN - Baseline Surface Radiation Network
3. CR - Clouds and Radiation
4. GEB - Global Energy Balance
5. ICLAS - International Coordination group for Laser Atmospheric Studies
6. IPRT - International Polarized Radiative Transfer
7. ITWG - International TOVS Working Group
8. UV - Solar UltraViolet Radiation
9. 3DRT (I3RC) - Three-Dimensional Radiative Transfer
10. HRMM - Hyperspectral Radiation: Measurements and Modelling
11. TSSI - Total and Spectral Solar Irradiance
12. MLRS - Machine Learning Applications in Remote Sensing

Annual reports, including publications, meetings, and related activities can be found on the [IRC website](#).

The IRS 2024 was the second time this symposium was held in China after the IRS 1986 in Beijing. It was also the second IRS in three years because the previous symposium, IRS 2022 in Thessaloniki, was delayed twice due to the COVID-19 pandemic. The IRC was determined to set the IRS back to its previous cadence.

IRS 2024 was organized by the School of Earth Sciences at Zhejiang University (ZJU) in partnership with the IRC and sponsored by the International Union of Geodesy and Geophysics (IUGG) and International Association of Meteorology and Atmospheric Sciences (IAMAS). Zhejiang Sanli New Century Grand Hotel provided a single convenient location for participant accommodations and all symposium sessions. Over 270 scientists from 18 countries participated in the fully in-person symposium, with 193 oral presentations and 74 posters.

IRS 2024 provided a comprehensive international forum for presenting and discussing research in atmospheric radiation and related disciplines in the following ten sessions: Topical Union Session: Current Problems in Atmospheric Radiation; Radiative Transfer Theory and Modeling; Particle Radiative Properties; General Remote Sensing; Ground-based Measurements and Field Observations; Radiation Budget and Forcing; Weather, Climate, and Environment Applications; Solar UV Radiation; China's Satellite Remote Sensing Programs; Radiation Science in the Tibet regions. Internationally renowned senior scientists, junior scientists, and students had a unique opportunity to discuss the most current scientific issues, exchange new ideas and establish far-reaching collaborations. Keynote addresses were delivered in the Topical Union Session at the start of each day.

A banquet was held on the evening of the third day at the famed Hangzhou Cuisine Museum. One of the highlights was the awards ceremony where the IRC Gold Medal and Young Scientist awards were presented. Dr. Ping Yang (Texas A&M University Distinguished Professor) received the IRC Gold Medal for his *remarkable achievements, groundbreaking research, and unwavering dedication to advancing our understanding of radiative processes in the Earth-Atmosphere system*. Dr. Jake Gristey (Cooperative Institute for Research in Environmental Sciences, University of Colorado Boulder) was presented the IRC Young Scientist Award for a *wide range of expertise, from high-resolution modeling to satellite mission design, and from pure curiosity-driven science questions to machine-learning applications*. Three additional scientists were awarded an Early Career Poster Prize, sponsored by the IAMAS-associated journal, *Advances in Atmospheric Sciences* (AAS): Stavros Vignos (National Observatory of Athens), Jaume Ruiz de Morales (Universitat de Girona), and Mayuki Sano (Tohoku University).

AAS also plans to publish our comprehensive meeting report of IRS 2024 and a special issue featuring select papers presented at IRS 2024.

On the afternoon of 20 June 2024, participants had the opportunity to join one of three excursions: West Lake, a World Cultural Heritage Site that had a major influence on East Asian culture between the ninth and eighteenth centuries; the Lingyin Temple, built in 328 AD during the Eastern Jin Dynasty, and one of the most significant and wealthiest Buddhist temples in the country; or Xixi Wetland Park, with a history of more than 4000 years and an abundant cultural heritage.

IRS 2024 was by all measures a resounding success. The IRC looks forward to inviting you to the next International Radiation Symposium in 2028!