

# BACO 2025

Busan IAMAS-IACS-IAPSO  
Joint Assembly

2nd Circular | 22 November 2024

20-25 July 2025  
BEXCO, Busan, Republic of Korea





# CONTENTS

OVERVIEW	03
WELCOME MESSAGE	04
LOCAL ORGANIZING COMMITTEE OF BACO-25	05
IMPORTANT DATES	06
SCIENTIFIC PROGRAM	07
LIST OF SYMPOSIA	08
REGISTRATION	11
CALL FOR ABSTRACTS	12
SPONSORSHIP & EXHIBITION	13
HOST CITY BUSAN	15
TRANSPORTATION	16





# OVERVIEW

## BACO 2025 Busan IAMAS-IACS-IAPSO Joint Assembly

**Title**

**Busan IAMAS-IACS-IAPSO Joint Assembly 2025**

**Date**

**20-25 July 2025**

**Theme**

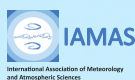
**Our Interconnected Earth**



**Venue**

**BEXCO, Busan, Republic of Korea**

**Hosted by**



**Organized by**



사단법인 한국기상학회  
Korean Meteorological Society



(사)한국해양학회  
The Korean Society of Oceanography



대한지질학회  
THE GEOLOGICAL SOCIETY OF KOREA

**Local Organizing Committee of BACO-25**

**Sponsored by**



부산광역시  
BUSAN METROPOLITAN CITY



기상청  
Korea Meteorological  
Administration



IBS Center  
for Climate Physics



국립수산물과학원  
National Institute of Fisheries Science



KOREA  
TOURISM  
ORGANIZATION



**For more information for the sponsorship,  
please contact the BACO-25 secretariat (see p13).**

Busan Gwangalli



# WELCOME MESSAGE

Welcome everyone,

On behalf of the Local Organizing Committee (LOC), we are honored to host the Busan IAMAS-IACS-IAPSO Joint Assembly 2025 (BACO-25) in Busan, Republic of Korea. I am Kyung-Ja Ha, the LOC Chair and a professor in the Department of Atmospheric Science at Pusan National University.

Korea has achieved remarkable scientific and technological advancements alongside its rapid economic growth. However, the country has also increasingly faced natural disasters, highlighting the global climate change crisis. At this crucial time, when the importance of the Earth's environment is more emphasized than ever, this assembly will serve as a platform to share the latest discoveries in earth sciences and collaborate on strategies to overcome the climate crisis.

We anticipate that this event will not only foster academic progress in geosciences but also encourage the participation of young geoscientists from the world to promote international cooperation programs.

BACO-25 will be organized jointly by the Korean Meteorological Society, the Korean Society of Oceanography, and the Geological Society of Korea, with enthusiastic support from the Korean government and Busan Metropolitan City, ensuring a professional and successful conference.

BACO-25 will take place from July 20 to 25, 2025. Over these six days, esteemed colleagues from academia, government, and industry worldwide will engage in scientific presentations, discussions, information exchanges, and international cooperation in earth sciences. Participants will enjoy exceptional scientific programs, exhibitions, and exciting supporting events.

Busan, Korea's second-largest city, boasts numerous world-class institutions and universities renowned for earth and ocean science research, such as the Korea Institute of Ocean Science & Technology (KIOST), the APEC Climate Center (APCC), the IBS Center for Climate Physics, and the National Institute of Fisheries Sciences. Busan is a dynamic metropolis where modern life harmonizes with traditional hospitality. The city offers extensive multilingual signage, efficient public transportation, ICT-based infrastructure, and eco-friendly technologies, making it a convenient place for residents and visitors. Busan is truly a destination of excitement, sensory richness, and warmth.

As an ocean tourism city, Busan features seven beautiful beaches. It is also a city of festivals, hosting events year-round, including the Busan International Film Festival and the Busan International Fireworks Festival. Its close proximity to UNESCO World Heritage sites in Gyeongju and the stunning Jeju Island, just a short flight away, provides unique experiences for international delegates.

On behalf of the LOC, we are preparing a variety of academic and cultural programs to ensure the successful hosting of the BACO-25 Joint Assembly in Korea. We sincerely hope to welcome you to Busan in 2025.

Sincerely yours,



**Kyung-Ja Ha**

Chair, Local Organizing Committee of BACO-25





# LOCAL ORGANIZING COMMITTEE OF BACO-25



**Chair**  
**Kyung-Ja Ha**  
Pusan National University  
(PNU)



**Co-Chair**  
**Seon-Ki Park**  
Korean Meteorological  
Society



**Co-Chair**  
**Hyoung Chul Shin**  
The Korean Society of  
Oceanography



**Co-Chair**  
**Young-Seog Kim**  
The Geological Society  
of Korea



**Advisory Committee**  
**Chair**  
**Byung-Ju Sohn**  
Seoul  
National University



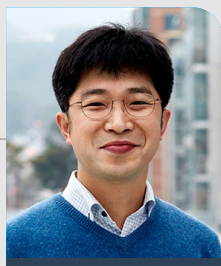
**Secretary General**  
**Myong-In Lee**  
**(IAMAS NC)**  
Ulsan National  
Institute of Science and  
Technology  
(UNIST)



**Secretary General**  
**Young Ho Kim**  
**(IAPSO NC)**  
Pukyong National  
University



**Secretary General**  
**Jinho Ahn**  
**(IACS NC)**  
Seoul National  
University



**Budgeting and**  
**Financing**  
**Seok-Woo Son**  
Seoul  
National University



**Planning and**  
**Supporting Events**  
**Sang-Woo Kim**  
Seoul  
National University



**Media and**  
**Communication**  
**Won Sang Lee**  
Korea Polar Research  
Institute



**Sponsoring and**  
**Fundraising**  
**Jae-Hun Park**  
Inha University



**LOC Secretariat**  
**Joonlee Lee**  
Ulsan National  
Institute of Science  
and Technology  
(UNIST)



# IMPORTANT DATES

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Content	Dates	
	Open	Close
Abstract submission	16 Nov 2024	15 Feb 2025
Travel grant application submission	1 Dec 2024	15 Feb 2025
Early bird registration	1 Dec 2024	30 Apr 2025
Online accommodation reservations	1 Dec 2024	30 Jun 2025
3rd Circular release	31 Jan 2025	
Final author registration	15 Apr 2025	
4th Circular release	30 Apr 2025	
Regular registration	1 May 2025	18 Jul 2025
Field trips and Social event registration	1 May 2025	25 Jun 2025
On-site registration	19 Jul 2025	25 Jul 2025



# SCIENTIFIC PROGRAM

The Scientific Program Committee (SPC) has prepared the program consisting of regular symposia scoped by three associations, as well as the joint symposia prepared by the collaboration of different association members.

The regular symposia of the International Association of Meteorology and Atmospheric Sciences (IAMAS) encompass a broad range of topics within the field of atmospheric and meteorological sciences. Key areas of focus include atmospheric chemistry and global pollution, climate, clouds and precipitation, dynamical meteorology, middle atmosphere, planetary atmospheres and their evolution, polar meteorology, ozone, radiation, weather and climate extremes, and atmospheric electricity.

The symposia in the International Association for the Physical Sciences of the Oceans (IAPSO) focus on a wide array of topics related to the physical sciences of the oceans. Key areas of focus include the mean sea level and tides, air-sea interaction, ocean mixing, ocean salinity, Tsunamis and other ocean hazards, ocean model development, marine meteorology, and marine geodesy and geophysics.

The symposia in the International Association of Cryospheric Sciences (IACS) focus on the study of snow, ice, and frozen ground on Earth and other planets. Key areas of focus include snow and avalanches, glaciers and ice sheets, sea ice, interactions with atmosphere and climate, permafrost, planetary, and other ices of the solar system.

The joint symposia proposed by two or three associations focus on themes related to interactions within our Earth systems. Please refer to the symposia list on our website and submit your valuable research!



Scientific Program  
Committee Chair  
**Seon-Ki Park**  
Korean Meteorological  
Society



Secretary General  
**Keith Alverson**  
(IAMAS)



Secretary General  
**Silvia Blanc**  
(IAPSO)

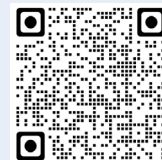


Secretary General  
**Richard Essery**  
(IACS)





# LIST OF SYMPOSIA



## IAMAS Individual Symposia

Theme	Title
M1	Atmospheric Chemistry in the Anthropocene: From the Urban to Global Scales
M2	Atmospheric Composition and the Asian Monsoon
M3	Weather modification: theory, practice and technology
M4	Cloud-Precipitation-Aerosol Studies
M5	Advances in Dynamic Meteorology
M6	Dynamics of Mountain Weather and Climate: Observations, Modeling and Prediction at all scales
M7	Tropical Meteorology
M8	Dynamics and microphysics of moist convection
M9	Mesoscale meteorology
M10	Middle Atmosphere Symposium
M11	Polar weather and climate extremes
M12	Earth's Energy Budget
M13	Advances in Atmospheric Radiation
M14	Lightning, Thunderstorms and Atmospheric Electricity
M15	Advances in the Remote Sensing of Aerosols, Clouds, Precipitation and Radiation
M16	The Mechanism and Prediction of Tropical Cyclones
M17	Atlantic Overturning Circulation: Climate Impacts and External Factors
M18	Monsoon systems: variability, processes, predictability, change and extremes

Theme	Title
M19	Understanding and Modeling of Weather and Geophysical Extremes and Related Complex Risks
M20	High resolution modelling of regional and local climate
M21	Earth-Atmosphere interaction and Boundary Layer Processes

## IACS Individual Symposia

Theme	Title
C1	Advances in Remote Sensing of the Cryosphere
C2	Advances in Sea Ice Forecasting and Modelling
C3	Advances in snow hydrology
C4	Advances in the modeling of glaciers
C5	Cryospheric biogeochemical cycles and environmental effects
C6	Cryospheric hazards and risks: Processes, impacts and adaptations
C7	Glaciers, glacial lakes and water resources in High Mountain Asia
C8	Ice sheet modelling
C9	Increased wet snow conditions under climate change and compound impacts
C10	Modelling and assessing snow processes and characteristics across various scales
C11	Observations of glacier and ice sheet change
C12	Snow2firn
C13	Societal impacts of changing cryosphere and development of resilience pathways
C14	Special session celebrating the international year of glaciers' preservation (invited presentations)



# LIST OF SYMPOSIA

## IAPSO Individual Symposia

Theme	Title
P1	General Topics in Oceanography (physics and biogeochemistry)
P2	Physics and Biogeochemistry of Semi-Enclosed, Shelf Seas and Coastal Zones
P3	Storm Surges, Waves and Coastal Hazards
P4	The Meridional Overturning Circulation (MOC)
P5	Regional ocean modelling
P6	Physical, Biogeochemical and Climate-Relevant Processes in the Southern Ocean through Observations, Theory, State Estimation, Modeling
P7	Thermophysical and chemical properties of Seawater

## Joint Sessions led by IAMAS

Theme	Title
JMP01	Hybrid statistical-physical approaches for Earth System modeling and prediction: from Data Assimilation to Machine Learning
JMP02	Machine Learning in atmospheric, ocean and earth-system prediction: forecasting, simulation and scientific analysis
JMP03	High-impact Weather and Climate Extremes
JMP04	Antarctic Bottom Water formation, variability and trends
JMP05	Variability and change in Pacific Ocean-Atmosphere system
JMP06	Advancing air-sea flux process understanding across diverse conditions
JMP07	Past climate changes and their relevance for the future
JMP08	Tropical Pacific SST Warming Patterns: Observations, Models and Impacts
JMP09	El Niño/Southern Oscillation and its Global and Regional Impacts
JMP10	Ocean-Atmosphere Mechanisms of Climate Variability, Change and Predictability
JMC11	Exploration of the Diversity of Planetary Atmospheres and Surfaces
JMC12	Multi-scale processes of hydrological cycles and impacts of the climate change
JMC13	Tropical-polar interactions under rapid climate change: Processes and influences
JMC14	Climate Change in the Polar Regions: Observing, Modelling and Predicting High Impact Transitions
JMC15	High latitude field campaigns
JMC16	Global warming driven cryospheric loss at high latitudes and altitudes and its impact on society and ecosystems
JMCP17	Natural Hazards
JMCP18	Sub-seasonal to Decadal Prediction (S2S-S2D)
JMCP19	Biogeochemical interactions across the atmosphere-ice-ocean interface
JMCP20	Responses of Antarctic ice shelves to changing atmospheric and oceanic forcing



# LIST OF SYMPOSIA

## Joint Sessions led by IACS

Theme	Title
JCM01	Coupling between the atmosphere and snow/ice surfaces: Observations and modelling
JCM02	Cryosphere changes and potential drivers in High Mountain Asia
JCM03	Permafrost under changing climate
JCM04	Recent Advances in Ice Core Science
JCP05	Ice sheet-ocean interactions and impacts
JCP06	Prospects and Perils of Geoengineering in the Cryosphere and Oceans
JCP07	Remote Sensing of Sea Ice from Satellite Microwave Measurements and its Applications
JCMP08	Connecting Polar to lower latitudes: A global perspective on climate change and impacts for Future Earth Strategies
JCMP09	Ice sheet mass loss: A driver of sea level rise
JCMP10	The atmosphere, cryosphere and oceans in Earth System Models

## Joint Sessions led by IAPSO

Theme	Title
JPM01	Interdisciplinary Tsunami Science
JPM02	Ocean dynamics and climate variability in the North Pacific
JPM03	Ocean and climate seamless forecasting
JPM04	Indian Ocean Sciences
JPM05	Heatwaves in the atmosphere and ocean
JPC06	Understanding and predicting the Arctic Ocean and Sea Ice states: Insights, Challenges, and Future Directions.
JPCM07	Turbulence, Internal Waves and Mixing on all scales
JPCM08	Impacts of climate change on the ocean
JPCM09	Atmosphere, Land, Ocean and Cryosphere Compound Events
JPCM10	The interactions between atmosphere-ocean-cryosphere in recent Antarctic climate change

**Please visit the website for more information!**

[Click Here](#) 

# REGISTRATION

The online registration is open on 1 Dec 2024 Sun. at 00:00 a.m. (KST, GMT+09)

## Important Dates

**Early Bird Registration opens :** 1 December 2024 – 30 April 2025

**Regular registration :** 1 May 2025 – 18 July 2025

**On-site registration :** 19 July – 25 July 2025

(1 USD = 1,350 KRW)

Types of Registration	Early Bird Fee		Regular Fee		Onsite Fee	
	USD	KRW	USD	KRW	USD	KRW
Regular Attendee	\$550	742,500	\$650	877,500	\$750	1,012,500
Postgraduate Student <sup>1</sup>	\$350	472,500	\$450	607,500	\$550	742,500
Undergraduate Student <sup>2</sup> & K-12 Educators and Students	\$150	202,500	\$200	270,000	\$200	270,000
Retiree	\$350	472,500	\$450	607,500	\$550	742,500
One-day Attendee	\$250	337,500	\$300	405,000	\$300	405,000
Accompanying Person <sup>3</sup>	\$120	162,000	\$150	202,500	\$150	202,500

1. A postgraduate student is a M.Sc. or Ph.D. student. The participant must be a student during the conference and need to provide proof/student status of the university (e.g., pdf copy of the original inscription at a university or attestation by a professor).

2. An undergraduate student includes high-school student.

3. Accompanying person fee is only available as supplement to existing full registration.

\* If you are an **Plenary Speaker, Sponsor or Exhibitor**, please DO NOT register here. Wait for a separate personal registration link to be sent to you via email.



# CALL FOR ABSTRACTS

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The abstract submission is open on 16 Nov Sat. 2024 at 00:00 a.m. (KST, GMT+09)

## Important Dates

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**Abstract Submission opens :** 16 November 2024

**Abstract Deadline :** Midnight KST - 15 Feb 2025

**Abstract Notifications :** 10 March 2025

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## Call For Abstracts

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Abstracts must be submitted online via the website only.

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**Please visit the website for abstract submission!**

[Click Here](#) 

## Eligibility

To submit an abstract, you must create an account on the official website of BACO-25. Presenting Authors must be registered participants. Only abstracts of authors who have paid their registration fees by the **Early Registration Deadline (30 April 2025)** will be scheduled for presentation and included for publication. Authors are required to consent to the collection and use of personal information and the "Copyright Transfer Agreement" during abstract submission.

## Types of presentations

Abstracts may be submitted for oral, poster, or oral/poster presentation. The Symposia Conveners will determine whether the abstract will be accepted for presentation, **taking into account the author's preference**. The Symposia Conveners and Scientific Program Committee also reserve the right to reassign presentation to other symposia.

## Abstract formatting

The length of the abstract text must be **between 200 (minimum) and 500 (maximum) words**, which will be automatically counted by the submission system. **Tables, figures, references, and other graphics are not allowed**. You will be able to modify your abstract in the submission system until the submission deadline.

## Abstract submission fee

Abstract submitters must pay a separate **submission fee (\$60 USD) for each abstract submitted**. Abstract submission fees are non-refundable. Abstract submission does not automatically guarantee acceptance.

## Withdrawing abstract

Presenting authors may withdraw their abstract from the submission system before the submission deadline. After the deadline, please contact the Scientific Program Committee ([abstract@baco-25.org](mailto:abstract@baco-25.org)).

## Questions

If you have any questions about the abstract submission process, please contact the Scientific Program Committee ([abstract@baco-25.org](mailto:abstract@baco-25.org))

# SPONSORSHIP & EXHIBITION

## Sponsorship Package and Benefits

(1 USD = 1,350 KRW)

Level		Diamond	Gold	Silver	Bronze
Rate	USD	74,000	37,000	22,200	7,400
	KRW	100,000	50,000	30,000	10,000
Basic Benefits					
Free registration		Max. 10 persons	Max. 8 persons	Max. 6 persons	Max. 4 persons
On-line Program Book Advertisement (Color)		2p	1p	1/2p	1/2p
Logo Placement on Website		○	○	○	○
Optional Benefit (Choose 1)					
Exhibition Booth (Area, installation provided)		Max. 36㎡ (4 booths)	Max. 18㎡ (2 Booths)	Max. 9㎡ (1 Booth)	Max. 9㎡ (1 Booth)
Sponsor's Special Session		Max. 4 hours (Room + Food & Beverage)	Max. 2 hours (Room + Food & Beverage)	Max. 50 min Advertisement session (Room + Beverage)	



On-line Program Book Advertisement (Color)



Logo Placement on Website/App



# SPONSORSHIP & EXHIBITION

## Exhibition Booth Package

(1 USD = 1,350 KRW)

	Space	Rate		Notes
		USD	KRW	
Independent Booth Raw Space	3m x 3m	2,200	3,000	<ul style="list-style-type: none"> <li>• Installation fee not included</li> <li>• 4 booths or more available</li> </ul>
Standard Booth Shell Scheme	3m x 3m	2,500	3,500	<ul style="list-style-type: none"> <li>• Installation fee included</li> <li>• 3m x 3m x 2.4m(L x W x H)</li> </ul>
Entitlements	<ul style="list-style-type: none"> <li>- Logo recognition with link to the company website</li> <li>- 50-word max company write-up in Sponsor &amp; Exhibitor web page</li> <li>- Logo placement in conference materials (Print and Digital)</li> <li>- Fascia Board, Carpet, Information Counter, 2 Folding chairs, Power socket(220V), 3 Spotlights, Logo placement in Program Book</li> <li>- One conference pass &amp; two exhibitor passes</li> </ul>			



Raw space (block system)



Raw space (customized-wood)



Shell Scheme(Standard Booth)

Please contact the BACO-25 Secretariat (E-mail: [info@baco-25.org](mailto:info@baco-25.org)) for registration and any other inquiries.

# HOST CITY BUSAN

## BUSAN



Busan, a bustling city of approximately 3.5 million residents, is located on the southeastern tip of the Korean peninsula. The size of Busan is 769.89 km<sup>2</sup> which is only 0.8% of the whole landmass of the Korean Peninsula. The natural environment of Busan is a harmonious relationship of mountains, rivers and sea. Its geography includes a coastline featuring superb beaches, scenic cliffs, and mountains that provide excellent hiking and extraordinary views with hot springs scattered throughout the city. Busan enjoys four distinct seasons and a temperate climate that never gets too hot or too cold.

## VENUE, BEXCO



### Venue

A global MICE business platform where dreams become reality. BEXCO, a landmark in the global maritime city of Busan, is a facilitator of successful business that has a vast wealth of knowledge.

The center implements a differentiated operation strategy that is based on its many years of successfully attracting and hosting highly acclaimed, large-scale international events. BEXCO prides itself on being world-leading exhibition and convention center that offers incomparable value to each on its clients. (E-mail : [bexco@bexco.co.kr](mailto:bexco@bexco.co.kr))

#### Convention Hall

- 1F: Conference Rooms 10
- 2F: Conference Rooms 8
- 3F: Grand Ballroom

#### Exhibition Center #1

- 1F: Exhibition Hall: 26,508m<sup>2</sup>
- 2F: Conference Rooms 8
- 3F: Conference Rooms 7

#### Exhibition Center #2

- 1F: Exhibition Hall : 9,936m<sup>2</sup>
- 3F: Exhibition Hall : 9,936m<sup>2</sup>
- Conference Rooms 13

#### Auditorium

- Max 4,002 Seats



# TRANSPORTATION (How to get to Busan)

## Airport Networks

### Route to Korea (Direct Flights)

A total of 97 international airlines in operation 4,585 round trips a week on 395 routes



A list of flight information by airlines can be found in the following



Direct flight information to Busan's Gimhae International Airport(PUS) can be found by clicking here

## Nationwide

You can choose how to get to Busan from Seoul; via air, train, or bus.



Incheon Airport (ICN), 60 minutes (3 times/ day)  
Gimpo Airport (GMP), 60 minutes (37 times/ day)



Seoul Station, 2 hours and 30 minutes (76 times/ day)



Suseo Station, 2 hours and 30 minutes (40 times/ day)



## Travel from Busan Station to BEXCO/Hotels

### Route 1 Travel between Busan Station ↔ BEXCO / Hotels

BEXCO and Hotels are easily accessible from Busan Station by three modes of inexpensive transportation.

Express Bus	Busan Station --> BEXCO / Hotels Takes approx. 40 min. / KRW 2,100 (USD 1.61) Departure interval : 15-20 min.
Subway	Busan Station --> BEXCO/Hotels Takes approx. 50 min. / KRW 1,800 (USD 1.29)
Taxi	Busan Station --> BEXCO/Hotels Takes approx. 30-50 min. / KRW 17,000~19,000 (USD 12.17~13.6)

### Route 2 Travel between Busan's Gimhae International Airport & BEXCO / Hotels

BEXCO and Hotels are easily accessible from Busan Airport (PUS) via two modes of inexpensive transportation.

Limousine Bus	Busan Airport --> BEXCO / Hotels Takes approx. 60 min. / KRW 10,000 (USD 7.65)
Taxi	Busan Airport --> BEXCO/Hotels Takes approx. 50-60 min. / KRW 31,000~35,000 (USD 22.19~25.06)

# BACO 2025

Busan IAMAS-IACS-IAPSO  
**Joint Assembly**



BACO-25 WEBSITE

Visit our BACO-25 website  
for further enquiries please contact