

The 30th International Symposium on Polar Sciences (ISPS 2025)

The 20th Workshop on

ANTARCTIC METEOROLOGY AND CLIMATE (WAMC 2025)

July 16-18, 2025

Korea Polar Research Institute and Online

ISPS 2025 / WAMC 2025 Program

as of July 1

All times are in KST (UTC+9).

July 16 (Wednesday)		
08:10 - 08:40	Registration	
Opening		Sejong Conference Room
08:40 - 08:50	Introduction of KOPRI	
08:50 - 08:55	Welcome Address Hyoung Chul Shin, President of KOPRI	
08:55 - 09:00	WAMC Opening	
Session 1. AWS Chair: Taejin Choi (Korea Polar Research Institute)		Sejong Conference Room
09:00 - 09:20	S1-1. Sabina Kucieba (British Antarctic Survey) <i>An Overview of AWS Servicing at Halley and Rothera Research Stations and Unusual Phenomena Observed at Halley During the Summer Season</i>	Virtual
09:20 - 09:40	S1-2. Lee Welhouse (AMRDC, University of Wisconsin - Madison) <i>The Automatic Weather Station and Polar Climate and Weather Station Field Season 2024-2025</i>	Virtual
09:40 - 10:00	S1-3. Lee Welhouse (AMRDC, University of Wisconsin - Madison) <i>The Automatic Weather Station and Polar Climate and Weather Station Field Season 2025-2026 Future Plan</i>	Virtual
10:00 - 10:20	Coffee Break	
Session 2. Data & Observations Chair: Yonghan Choi (Korea Polar Research Institute)		Sejong Conference Room
10:20 - 10:40	S2-1. Jinfei Wang (Sun Yat-sen University) <i>Identification of Antarctic sea ice regimes using objective data mining</i>	In-person
10:40 - 11:00	S2-2. Simone Pulimeno (Ca' Foscari University of Venice) <i>Polar-AOD network: strengthening aerosol climatologies for the polar observing community</i>	Virtual
11:00 - 11:20	S2-3. Matthew Lazzara (AMRDC, University of Wisconsin - Madison) <i>The Antarctic Meteorological Research and Data Center Data Repository: A Project Update</i>	Virtual
11:20 - 11:40	S2-4. David Mikolajczyk (AMRDC, University of Wisconsin - Madison) <i>The Antarctic Meteorological Research and Data Center Website: An overview and discussion of the AMRDC website, featured projects, and real-time data display</i>	Virtual
11:40 - 12:00	S2-5. Amin Beiranvand Pour (INOS, University Malaysia Terengganu) <i>PRISMA hyperspectral remote sensing satellite data for mineralogical mapping in Antarctica</i>	Virtual
12:00 - 13:30	Lunch Break	
	12:40-13:10 KOPRI Campus Tour	

Session 3. Forecasting & Modeling Chair: Mariana Fontolan Litell (The Ohio State University)		Sejong Conference Room
13:30 - 13:50	S3-1. Michael Johnson (NIWC LANT Polar Programs) <i>NPP Meteorology 2025: Overview, Plans, and Goals</i>	Virtual
13:50 - 14:10	S3-2. Kevin W. Manning (NSF National Center for Atmospheric Research) <i>AMPS Update - July 2025</i>	In-person
14:10 - 14:30	S3-3. Mariana Fontolan Litell (Byrd Polar and Climate Research Center - The Ohio State University) <i>Forecast Impact of Additional Radiosonde Ascents During the Year of Polar Prediction – Southern Hemisphere (YOPP-SH) Winter Campaign</i>	In-person
14:30 - 14:50	S3-4. Isabella Onsi (NIWC LANT Polar Programs) <i>Early Career Perspective on Antarctic Operations</i>	Virtual
14:50 - 15:10	<i>Coffee Break</i>	
15:10 - 15:30	S3-5. Keith Hines (Byrd Polar and Climate Research Center, The Ohio State University) <i>Skillful Polar WRF Cloud Modeling of a Warm Winter Atmospheric River at the Antarctic Peninsula</i>	Virtual
15:30 - 15:50	S3-6. Saurav Dey Shuvo (Byrd Polar and Climate Research Center, The Ohio State University) <i>Simulating the 12 February 2020 North Dakota Blizzard: An Application of a Blowing Snow Algorithm Coupled with the Polar Weather Research and Forecasting Model</i>	Virtual
15:50 - 16:10	S3-7. Étienne Vignon (Laboratoire de Météorologie Dynamique /CNRS) <i>Advanced precipitation scheme in ICOLMDZ with improved microphysics and subgrid cloud-hydrometeor interactions to better simulate polar precipitation</i>	Virtual
16:10 - 16:30	S3-8. Jenna Palmer (NPP Meteorology) <i>Improving Antarctic Fog Forecasting using Data Analytics</i>	Virtual
16:30 - 16:50	S3-9. Phil Reid (Australian Bureau of Meteorology) <i>Coupled model sea ice forecasts - some results and complexities</i>	Virtual
16:50 - 17:10	<i>Group Photo</i>	
Session 4. Poster Session In-person Only		Sejong Conference Room
17:10 - 18:00	S4-1. Qinghua Yang (Sun Yat-sen University, Southern Marine Science and Engineering Guangdong Laboratory (Zhuhai)) <i>A dataset of the edge of each polynya in the Antarctica</i>	
	S4-2. Clare Eayrs (Korea Polar Research Institute) <i>Enhancing Antarctic Forecasting and Services through the Polar Coupled Analysis and Prediction for Services (PCAPS) Project</i>	

	S4-3. Enbo Ge (Chinese Academy of Meteorological Sciences) <i>Temperature characteristics of ABL at Zhongshan Station, Antarctica observed by MTP</i>	
	S4-4. Matteo Willeit (Potsdam Institute for Climate Impact Research) <i>Convection in the Southern Ocean triggered by Heinrich events</i>	
	S4-5. Ran Yang (School of Atmospheric Sciences, Sun Yat-sen University) <i>Unveiling the Compound Nature of Antarctic Extremes: Regional Drivers and Seasonal Variability of Precipitation and Warm Events</i>	
	S4-6. Hyeogdo Kweon (Department of Atmospheric Sciences, Yonsei University) <i>Spatiotemporal Correlation Between Antarctic Springtime Stratospheric Ozone and Meteorological Factors Based on MERRA-2 Reanalysis</i>	
18:00 - 20:00	<i>Welcome Dinner</i>	<i>Cafeteria</i>
July 17 (Thursday)		
08:50 - 09:00	<i>Registration & Beginning of the 2nd-day Workshop</i>	
Session 5. Research-I Chair: Jordan Powers (NSF National Center for Atmospheric Research)		<i>Sejong Conference Room</i>
09:00 - 09:20	S5-1. Taejin Choi (Korea Polar Research Institute) <i>Ten-Year Measurements of Surface Radiation and Turbulent Heat Flux at Jang Bogo Station, Terra Nova Bay, Antarctica</i>	<i>In-person</i>
09:20 - 09:40	S5-2. Jordan Powers (National Center for Atmospheric Research) <i>A Modeling Investigation of an Antarctic Mass Loss Event</i>	<i>In-person</i>
09:40 - 10:00	S5-3. Satyajit Singh Saini (Indian Institute of Technology Roorkee) <i>Seasonal Variability and Long-Range Transport of Black Carbon Aerosols over East Antarctica: Observational Insights from Bharati Station</i>	<i>In-person</i>
10:00 - 10:20	S5-4. Sergi González-Herrero (WSL Institute for the Snow and Avalanche Research SLF) <i>Instrumentation of a tall tower at Princess Elisabeth station to study the vertical energy exchange during blowing snow events in Antarctica</i>	<i>Virtual</i>
10:20 - 10:40	<i>Coffee Break</i>	
10:40 - 11:00	S5-5. Diana Francis (Khalifa University) <i>Role of Foehn winds in snow sublimation and land-ice changes</i>	<i>Virtual</i>
11:00 - 11:20	S5-6. Diana Francis (Khalifa University) <i>Atmospheric Triggers of Ice-Shelf Fronts Calving Events in Antarctica</i>	<i>Virtual</i>
11:20 - 11:40	S5-7. Naohiko Hirasawa (National Institute of Polar Research) <i>Detection of extremely weak precipitation</i>	<i>Virtual</i>
11:40 - 12:00	S5-8. Naoyuki Kurita (Nagoya University) <i>Summer warming in the East Antarctic interior triggered by southern Indian Ocean anthropogenic warming</i>	<i>Virtual</i>
	<i>Lunch Break</i>	
12:00 - 13:30	12:10-13:00 Seminar for Early Career Researchers Speaker: Taejin Choi (KOPRI)	<i>Penguin Seminar Room</i> <i>(In-person Only)</i>

Session 6. Research-II		Sejong Conference Room
Chair: Sang-Jong Park (Korea Polar Research Institute)		
13:30 - 13:50	S6-1. Christine Kaufhold (Potsdam Institute for Climate Impact Research) <i>Impact of Antarctic and Greenland Ice Sheet melting on sea level, regional climate, and future coastlines</i>	In-person
13:50 - 14:10	S6-2. Shoudong Zhao (Chinese Academy of Meteorological Sciences) <i>Observed Top Ten Heatwaves in the Antarctic Peninsula (1991–2023)</i>	In-person
14:10 - 14:30	S6-3. Sang-Jong PARK (Korea Polar Research Institute) <i>35-YEARS OF CLIMATOLOGY OF THE KING SEJONG STATION, ANTARCTICA</i>	In-person
14:30 - 14:50	S6-4. Minghu Ding (Chinese Academy of Meteorological Sciences) <i>Blocking Events in East Antarctica</i>	In-person
14:50 - 15:10	<i>Coffee Break</i>	
15:10 - 15:30	S6-5. Evan Quinter (University of Delaware) and Mary Stack (University of Virginia) <i>Trends in Storminess Over the West Antarctic Peninsula: A Multi-Method Analysis of ERA5 Reanalysis Data (1979-2021)</i>	Virtual
15:30 - 15:50	S6-6. Cavaliere Alice (National Research Council, Institute of Polar Sciences, Italy) <i>Surface radiation budget data in a bipolar perspective: observations, comparison and exploiting for products</i>	Virtual
15:50 - 16:10	S6-7. David H. Bromwich (Byrd Polar and Climate Research Center, The Ohio State University) <i>Is Interior Antarctica on the Threshold of Major Climate Change?</i>	Virtual
16:10 - 16:30	S6-8. Xun (Jerry) Zou (Scripps Institution of Oceanography, University of California San Diego) <i>March 2022 East Antarctic Heatwave Under Different Background Climate Conditions</i>	Virtual
16:30 - 16:50	<i>Coffee Break</i>	
Session 7. Research-III		Sejong Conference Room
Chair: Ja-Ho Koo (Yonsei University)		
16:50 - 17:10	S7-1. Hyesun Choi (Korea Polar Research Institute) <i>Changes in the Timing of Stratospheric Final Warming and Their Link to Recent Antarctic Summer Climate</i>	In-person
17:10 - 17:30	S7-2. Ja-Ho Koo (Yonsei University) <i>Connection between the Antarctic stratospheric ozone and sea ice extent in the Weddell Sea in austral spring</i>	In-person
17:30 - 17:50	S7-3. Dong-Chan Hong (Seoul National University) <i>How does Antarctic ozone depletion affect the Southern Hemisphere climate?</i>	In-person
17:50 - 18:10	S7-4. Minju Park (Yonsei University) <i>Spatiotemporal characteristics of Antarctic springtime tropopause from ozonesonde observations and its relationship with total ozone column</i>	Virtual

July 18 (Friday)		
08:50 - 09:00	Registration & Beginning of the 3 rd -day Workshop	
Session 8. Research-IV Chair: Eui-Seok Chung (Korea Polar Research Institute)		Sejong Conference Room
09:00 - 09:20	S8-1. Rui Zhong (School of Atmospheric Sciences, Sun Yat-sen University) <i>Revisiting the Interaction Between Antarctic Sea Ice and Southern Ocean Cyclones</i>	In-person
09:20 - 09:40	S8-2. Kaixin Liang (Sun Yat-sen University) <i>Regional extreme Antarctic sea-ice retreat linked to tropical forcing</i>	In-person
09:40 - 10:00	S8-3. Peiyi Lin (School of Atmospheric Sciences, Sun Yat-sen University) <i>Dipolar Distribution of Cyclones and Its Influence on Sea Ice Extremes in the Amundsen–Bellingshausen Seas</i>	In-person
10:00 - 10:20	S8-4. Antonia Louise Radlwimmer (University of Otago) <i>Changing storm behaviour and its links to winter sea ice processes in the Ross Sea</i>	In-person
10:20 - 10:40	Coffee Break	
10:40 - 11:00	S8-5. Diana Francis (Khalifa University) <i>Atmospheric Drivers of Coastal and Open-Ocean Polynyas around Antarctica</i>	Virtual
11:00 - 11:20	S8-6. Feba Francis (Universite Catholique de Louvain) <i>Wind nudging experiments to simulate the 1970s drop in the sea ice extent in the Southern Ocean</i>	Virtual
Closing		Sejong Conference Room

Online Meeting Room (Zoom)

<https://us06web.zoom.us/j/87833575005?pwd=wj0LU6GSOWnvPdoyCwMRGeYZpUWsja.1> (Meeting ID: 878 3357 5005, Passcode: 25071618)

KOPRI Campus at a Glance from Above

