

ISAR-8

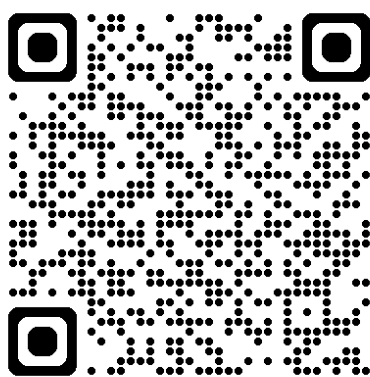
The Eighth International Symposium on Arctic Research

October 28-31, 2025
Hachioji, Tokyo, Japan

Access the ISAR-8 Online Program Site

Scan the QR code below to view the full session schedule and program details.

Stay up to date with the latest information throughout the symposium.



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Program as of October 22, 2025

Welcome Words



Jun Inoue

Chair, ISAR-8 Local
Organizing Committee

On behalf of the Symposium Organizing Committee, it is our great pleasure to welcome you to the Eighth International Symposium on Arctic Research (ISAR-8), held at Tokyo Tama Mirai Messe in Hachioji, Tokyo, Japan, on October 28 - 31, 2025. The symposium is organized by the National Institute of Polar Research (NIPR) and the Japan Consortium for Arctic Environmental Research (JCAR) with generous support from many other institutions.

Since its first meeting in 2008, ISAR has grown into one of the most important international platforms for Arctic research, bringing together scientists and stakeholders from diverse disciplines. The Arctic is experiencing rapid environmental and societal change, which affects not only the region itself but also climate, ecosystems, and human activities across the globe. At ISAR-8, we aim to share the latest findings, exchange ideas across disciplinary boundaries, and strengthen collaborations toward sustainable solutions.

This year, ISAR-8 is held entirely in person, allowing direct discussions and networking that are essential for building trust and advancing knowledge. We expect more than 300 participants from 25 countries, and around 300 presentations covering a wide range of topics from natural sciences to social sciences and humanities. We are confident that this symposium will provide a unique opportunity for fruitful discussions and new collaborations.

We sincerely thank all colleagues and partners who have made this symposium possible. We also hope you will enjoy your time at ISAR-8, and that this meeting will inspire new steps toward a deeper understanding of the Arctic and its global connections.



Yoshifumi Nogi

Professor, Director-General,
National Institute of Polar
Research, Japan

On behalf of the National Institute of Polar Research, it is my great pleasure to welcome you to the Eighth International Symposium on Arctic Research (ISAR-8), held in Hachioji City, Tokyo, at Tokyo TAMA Mirai Messe from October 28 to 31, 2025.

ISAR has traditionally taken place every two years in March; however, this time, we convene after a two-and-a-half-year interval. Following the previous symposium, ISAR-8 is once again being held in person, enabling researchers from around the world to meet face-to-face and engage in meaningful dialogue. We are delighted to host this important event in a new venue.

In recent years, the Arctic region has undergone rapid environmental changes, with far-reaching implications for global climate systems and society. Arctic research requires not only scientific investigation but also transdisciplinary collaboration across the natural sciences, social sciences, humanities, and policy studies.

At the same time, the geopolitical landscape of the Arctic, particularly involving Russia, has become increasingly complex. These developments challenge international cooperation and scientific exchange, reminding us of the critical importance of maintaining open dialogue and shared commitment to peaceful collaboration.

I sincerely hope that ISAR-8 serves as a platform for fruitful discussions, new partnerships, and fresh insights that contribute to the sustainable future of the Arctic and beyond. May your time in Hachioji be both productive and inspiring.

Thank you all for your participation and dedication.

Organizations

Organizers

National Institute of Polar Research (NIPR)

Japan Consortium for Arctic Environmental Research (JCAR)

Co-Organizers

Hokkaido University

Japan Agency for Marine-Earth Science and Technology (JAMSTEC)

ISAR-8 Local Organizing Committee (LOC)

Jun Inoue (NIPR) *Chair

Hiromichi Ueno (Hokkaido University) *Vice-Chair

Eiji Watanabe (JAMSTEC) *Vice-Chair

Hiroyasu Hasumi (JCAR/The University of Tokyo) *Vice-Chair

Daisuke Goto (NIPR)

Mariko Hatta (JAMSTEC)

Yoshihiro Iijima (JCAR/Tokyo Metropolitan University)

Yuji Kodama (Hokkaido University)

Akihisa Konno (JCAR/Kogakuin University)

Toshinobu Machida (JCAR/National Institute for Environmental Studies)

Takanori Nishiyama (NIPR)

Daiki Nomura (Hokkaido University)

Fujio Ohnishi (JCAR/Hokkaido University)

Kazuyuki Saito (JCAR/JAMSTEC)

Tetsuo Sueyoshi (NIPR)

Masayuki Takigawa (JAMSTEC)

Takeshi Tamura (NIPR)

Yutaka Tobo (NIPR)

Hisatomo Waga (NIPR/University of Alaska Fairbanks)

Hironori Yabuki (JCAR/NIPR)

Masakazu Yoshimori (JCAR/The University of Tokyo)

ISAR-8 Program Committee

Masakazu Yoshimori (JCAR/The University of Tokyo) *Chair

Michiyo Kawai (JCAR/Tokyo University of Marine Science and Technology)

Ayumi Kotani (JCAR/Nagoya University)

Takatoshi Matsuzawa (JCAR/National Maritime Research Institute)

Masahiro Minowa (JCAR/Hokkaido University)

Shigeto Nishino (JCAR/JAMSTEC)

Fujio Ohnishi (JCAR/Hokkaido University)

Junichi Okuno (JCAR/NIPR)

Yuko Osakada (JCAR/Chuo University)

Kazuyuki Saito (JCAR/JAMSTEC)

Juha Saunavaara (JCAR/Hokkaido University)

Takuo Tsuda (JCAR/The University of Electro-Communications)

ISAR-8 International Advisory Committee (IAC)

Tatiana Alekseeva (Cryosphere and Remote Sensing) Arctic and Antarctic Research Institute

Dorthe Dahl-Jensen (Paleoclimate) University of Copenhagen

Hajo Eicken (Cryosphere) University of Alaska Fairbanks

Josef Elster (Terrestrial) University of South Bohemia

Kumiko Goto-Azuma (Cryosphere and Paleoclimate) NIPR

Joachim Otto Habeck (Anthropology) University of Hamburg

Larry Hinzman (Terrestrial) University of Alaska

Kristin Ingvarsdottir (History) University of Iceland

Rachael Lorna Johnstone (Polar Law) University of Akureyri

Michael Karcher (Oceanography) Alfred Wegener Institute

Joo-Hong Kim (Atmosphere) Korea Polar Research Institute

Nikolay Kradin (Anthropology) Russian Academy of Science

Marc Lanteigne (Political Science) UiT The Arctic University of Norway

Wieslaw Maslowski (Oceanography) Naval Postgraduate School

Atsushi Matsuoka (Remote Sensing) University of New Hampshire

Kerim Hestnes Nisancioglu (Paleoclimate) University of Bergen

Tetsuo Ohata (Cryosphere)

Atsumu Ohmura (Climate) Swiss Federal Institute of Technology

Volker Rachold (Geography) Alfred Wegener Institute

Kaj Riska (Arctic Technology) Norwegian University of Science and Technology

Stein Sandven (Oceanography) Nansen Environmental and Remote Sensing Center

Martin Schneebeli (Cryosphere) WSL Institute for Snow and Avalanche Research SLF

Hyoung Chul Shin (Marine Ecology) Korea Polar Research Institute

Thomas Spengler (Atmosphere) University of Bergen

Peter Wadhams (Cryosphere) University of Cambridge

Supported



This program is supported by subsidy from
Hachioji Visitors & Convention Association.

Supported

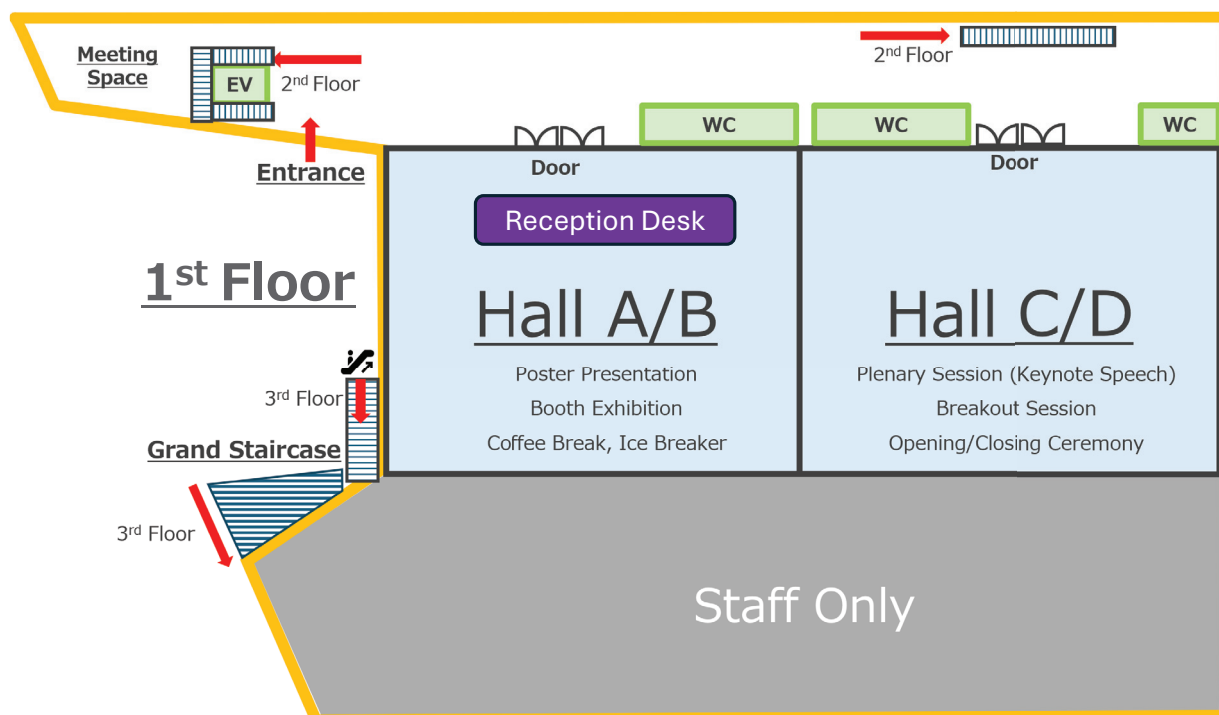


The entire program

Venue: Tokyo Tama-Mirai-Messe

		Hall C/D	Room 1	Room 2	Room 5	Room 3	Room 4	Hall A/B		
October 28 Tuesday	10:00-10:50	Opening/ Photo Session							Exhibition	Cafe
	11:00-11:45	Keynote Speech 1								
	11:45-13:00	Lunch								
	13:00-14:30	R2	S11+S12	R7				Poster Display		
	14:45-16:15	R2	S11+S12	R7						
	16:30-18:00	R2	S11+S12	R7				preparation		
	18:30-19:30							Icebreaker		
October 29 Wednesday	9:30-11:00	R2	S8	R10				Poster Display	Exhibition	Cafe
	11:15-12:45	S2	S10	R5						
	12:45-14:00	Lunch			Side	Side	Side			
	14:00-14:45	Keynote Speech 2						Poster Session Core Time 1		
	15:00-16:30	S2	S10	R4	S13					
	16:45-18:15									
					Special Event 17:00-18:30 SPF-01					
	19:00-21:00	Banquet (Keio Plaza Hotel)								
October 30 Thursday	9:30-11:00	S3	S5+S6	R8				Poster Display	Exhibition	Cafe
	11:15-12:45	S4	S5+S6	R8						
	12:45-14:30	Lunch			Side					
	14:30-15:15	Keynote Speech 3						Poster Session Core Time 2		
	15:30-17:00									
	17:15-18:45	S4	S15	R9						
	18:45-20:15				Side	Side				
October 31 Friday	9:30-10:15	Keynote Speech 4						Poster Display	Exhibition	Cafe
	10:30-12:00	R3	R1	R6	S17					
	12:00-13:30	Lunch				IAC				
	13:30-15:00	R3	R1	R6	S18					
	15:15-16:15	Closing								

1st Floor of Tokyo Tama-Mirai Messe



Hall C/D

- Smoking is prohibited in all areas of the venue.
- Please wear your name tag all time in the venue.

Keynote Speeches

October 28 (Tue) 11:00-11:45	Dr. Hiroki Takakura Professor / Tohoku University
October 29 (Wed) 14:00-14:45	Dr. Anna Nikolopoulos Senior Advisor / UiT The Arctic University of Norway
October 30 (Thu) 14:30-15:15	Dr. Kristín Ingvarsdóttir Associate Professor / School of Humanities, Faculty of Languages and Cultures, University of Iceland
October 31 (Fri) 9:30-10:15	Dr. Yoshihiro Iijima Professor / Tokyo Metropolitan University

Breakout Sessions

October 28 (Tue)	R2
October 29 (Wed)	R2, S2
October 30 (Thu)	S3, S4
October 31 (Fri)	R3

Opening Ceremony

October 28 (Tue), 2025

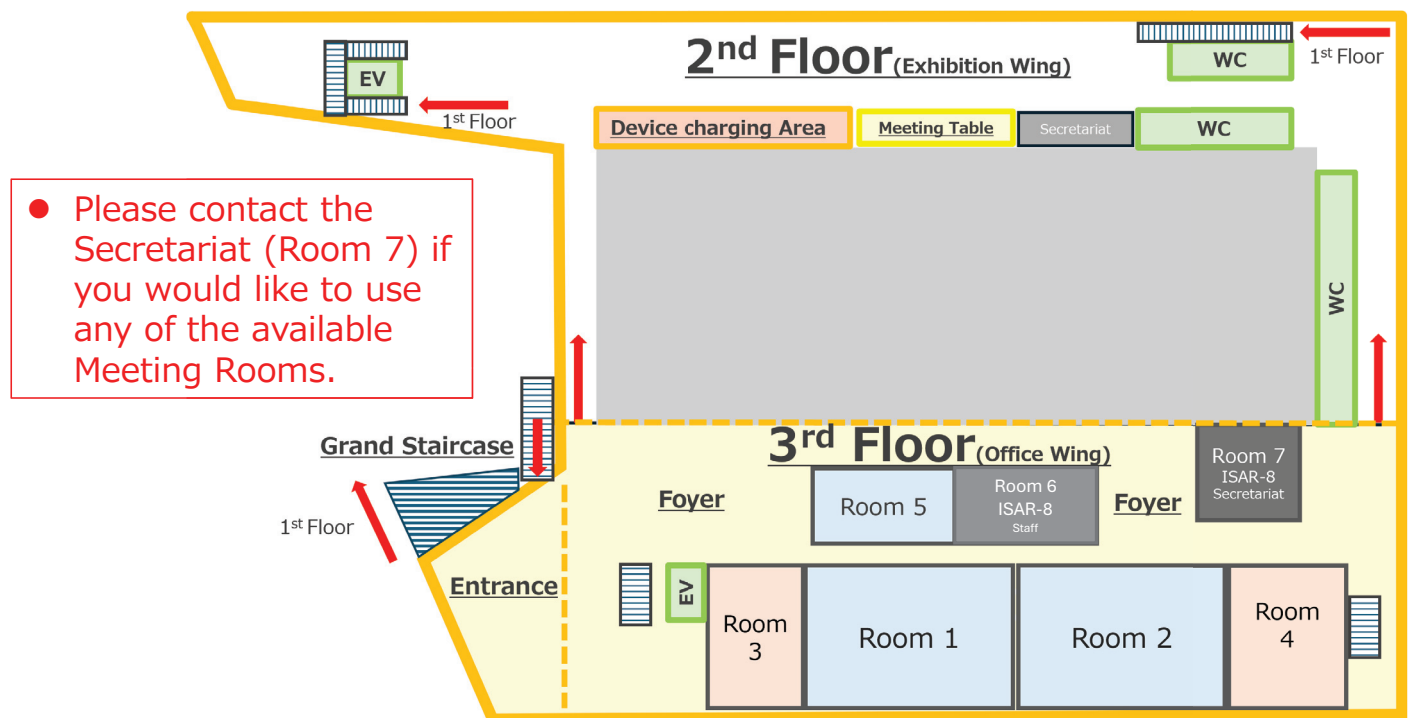
10:00	Declaration of Opening : Jun Inoue (Chair, ISAR-8 Local Organizing Committee)
	Welcome Speech by Organizers: Yoshifumi Nogi (Director General, National Institute of Polar Research)
	Guest Speech: TBD
10:35	Close, move to Entrance
	Photo Session
10:50	Photo Session ends

Closing Ceremony

October 31 (Fri), 2025

15:15	Closing remarks: Volker Rachold (Senior Scientist, Helmholtz Center for Polar and Marine Research, Alfred Wegener Institute)
15:30	Closing Remarks: Hajo Eicken (Director, International Arctic Research Center, University of Alaska Fairbanks)
15:45	Poster award announcement: Kazuyuki Saito (Chair, Poster Award Committee of LOC) Poster award ceremony: Jun Inoue (Chair, ISAR-8 LOC)
16:00	Closing Address and Declaration of closing :Jun Inoue (Chair, ISAR-8 LOC)

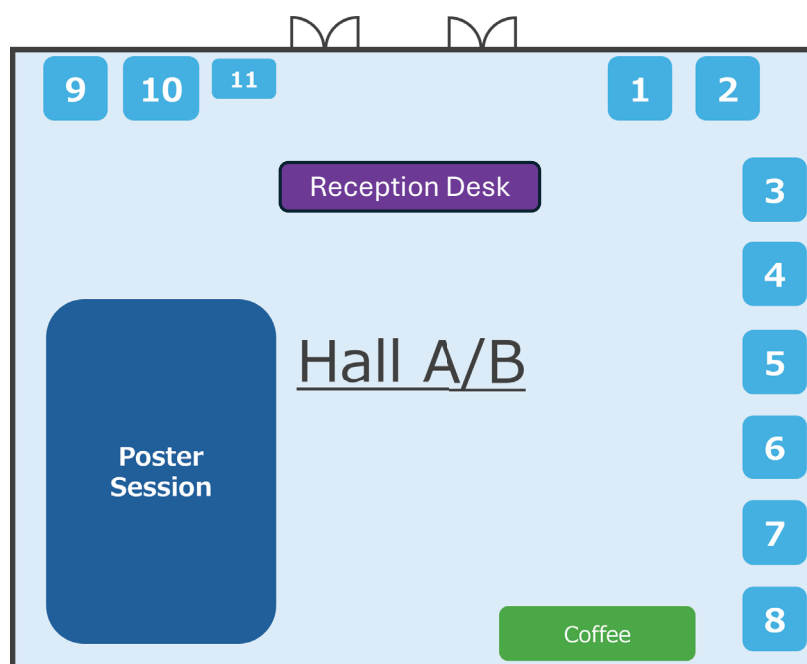
2nd and 3rd Floor of Tokyo Tama-Mirai-Messe



	Oct. 28	Oct. 29	Oct. 30	Oct. 31
Room 1 Breakout Session	S11+S12	S8, S10	S5+S6, S15	R1
Room 2 Breakout Session	R7	R10, R5, R4	R8, R9	R6
Room 5 Breakout Session		S13		S17, S18

Room 3 Side Meetings	October 29 (Wed) 12:45-14:00 <i>Meeting of the Board of the Sustaining Arctic Observing Networks (SAON)</i> October 30 (Thu) 18:45-20:15 <i>Joint Meeting with CNEAS and MIASU</i> October 31 (Fri) 12:00-13:30 <i>ISAR-8 International Advisory Committee (IAC) (Closed)</i>
Room 4 Side Meetings	October 29 (Wed) 12:45-14:00 <i>ASSW2027 LOC (Closed)</i>
Room 5 Side Meetings	October 29 (Wed) 12:45-14:00 <i>Book Presentation: Arctic Policies of Non-Arctic States (Studies in Polar Law, Volume 4, Brill 2025)</i> October 30 (Thu) 12:45-14:30 <i>ROADS Advisory Panel - Partnership meeting</i> October 30 (Thu) 18:45-20:15 <i>Synoptic Arctic Survey (SAS) Side Meeting</i>

Layout of Hall A/B



Exhibitions	
1	EKO Instruments CO., LTD.
2	Cubic-i Ltd. (CLS JAPAN)
3	Campbell Scientific Japan, K.K
4	Arctic Challenge for Sustainability III (ArCS III)
5	Japan Agency for Marine-Earth Science and Technology (JAMSTEC)
6	Mitsui O.S.K. Lines, Ltd.
7	Arctic and Antarctic Data archive System (ADS) , NIPR
8	Fieldpro, Inc.
9	Prede Co., Ltd.
10	Electronic Navigation Research Institute, National Institute of Maritime, Port and Aviation Technology
11	Hachioji Visitors & Convention Association

Poster Session Core Time		
Core Time 1	October 29 (Wed) 16:45-18:15	R2, R4, R5, R7
Core Time 2	October 30 (Thu) 15:30-17:00	R1, R3, R6, R8, R10, S2, S3, S5+S6, S17

Posters may be displayed in **Hall A/B** from **October 28 (Tue) 13:00** to **October 31 (Fri) 13:30**.

Exhibition period: **October 28 (Tue) 10:00** to **October 31 (Fri) 13:30**. We invite all participants to visit and explore the latest technologies and services supporting Arctic research. Highlights include presentations of research outcomes from Japan's Arctic projects.



Icebreaker will be held on October 28 (Tue) at 18:30. We hope you will join us!





The Eighth International Symposium of Arctic Research (ISAR-8)

**Program
Day 1**

**October 28, 2025
Tokyo Tama-Mirai-Messe**

October 28, 10:00 – 10:35

HALL C/D

Plenary

Opening Ceremony

October 28, 10:35 – 10:50

Entrance of the Venue

Group Photo Session

October 28, 11:00 – 11:45

HALL C/D



Plenary

Keynote Speech 1

Chair: Tetsuo Sueyoshi

Speaker: Hiroki Takakura, Professor, Tohoku University

Presentation Title : Changing Arctic Studies and the Distorted Indigenous Wellbeing

October 28, 11:45 – 13:00

Lunch Break

October 28, 13:00 – 17:45

Hall C/D

Breakout Session

R2:Ocean and sea ice

Chairs: Satoshi Kimura, Eunye Son, Tsubasa Kodaira

Presentation Code	Time	Title	Author(s)
R2-O-01	13:00 - 13:15	Seven years of Arctic sea ice thickness from NASA's ICESat-2	*Alek Petty
R2-O-02	13:15 - 13:30	Towards improving sea ice thickness estimates through seasonal density parametrization	*Evgenii Salganik, Odile Crabeck, Niels Fuchs, Nils Hutter, Jack Christopher Landy, Frank Kauker, Dmitry Divine, Marcel Nicolaus
R2-O-03	13:30 - 13:45	Challenges in SAR Lead Detection Under Varying Developmental Stages and Background Ice Conditions	*Jiaxing Gong
R2-O-04	13:45 - 14:00	Launch of GOSAT-GW and prospects of AMSR3 on Arctic research	*Rigen Shimada, Misako Kachi, Eri Yoshizawa, Keiichi Ohara, Kentaro Aida, Kazuki Nakata, Takumi Suzuki, Kazuya Inaoka, Takeshi Miura, Yasushi Kojima, Naoto Ebuchi
R2-O-05	14:00 - 14:15	Learning Without Labels: Segmenting Ice Floes in SAR for Floe Size Distribution	*Louisa van Zeeland, Martin S. J. Rogers, Nick Hughes, Oliver Strickson, Ben R. Evans, Gaëlle Veyssi�re, Andrew Fleming, J. Scott Hosking, Jeremy Wilkinson
R2-O-06	14:15 - 14:30	Rare persistence of sea ice in the western Chukchi Sea: drivers and impacts under a warming Arctic	*Xi Zhao, Jiaxing Gong, Lijuan Song, Annette Rinke, Xiao Cheng
14:30 - 14:45 Coffee Break			
R2-O-07	14:45 - 15:00	Wind, wave, and current effects on sea ice drift based on multiple drifting buoys deployed in the Canada Basin	*Tsubasa Kodaira, Takuji Waseda, Yasushi Fujiwara, Kaoru Ichikawa, Masafumi Kimizuka, Yusuke Kawaguchi, Takehiko Nose, Amane Fujiwara
R2-O-08	15:00 - 15:15	Toward Two-Eyed Seeing in Arctic Ocean Modeling Centering Indigenous Knowledge for Climate-Resilient Stewardship and Food Security	*Claudine Hauri, Donna Hauser, Remi Pages, Krista Heeringa, Roberta Glenn-Borade, Brita Irving, Katherine Hedstrom
R2-O-09	15:15 - 15:30	Warming and Arctic Sea Ice Melt-induced Freshening of the Labrador Sea Raised its Level to Record High	*Igor Yashayaev, Yang Zhang, Vigan Mensah
R2-O-10	15:30 - 15:45	A climatology of seasonal freshwater accumulation to revisit the freshwater budget in Baffin Bay and the Labrador shelf	*Vigan Mensah, Igor Yashayaev, Koji Fujita, Stephen E. L. Howell, Miho Ikeda, Kay I. Ohshima,
R2-O-11	15:45 - 16:00	The past and projected freshwater flux from Arctic land ice and its impact on ocean circulation and climate	*Jonathan L Bamber, Zelu Zhang, Dan Lunt
R2-O-12	16:00 - 16:15	Hydrography and sediment plume dynamics in mid-sized fjords of Southeast Greenland	*Flor Vermassen, Julek Chawarski, Julie Lattaud, Jakob Zopfi, Laurence Dyke, Helen Coxall, Christian Stranne
16:15 - 16:30 Coffee Break			
R2-O-13	16:30 - 16:45	High-Resolution Modeling of Atlantic Water Inflow and Glacier–Ocean Interaction in West Greenland	*Wakaba Otani, Yoshihiro Nakayama, Michael Wood, Ian Fenty, Claudia Wekerle, Vigan Mensah
R2-O-14	16:45 - 17:00	What roles do decadal meltwater variability and multi-year ice decline play in Beaufort Gyre freshwater accumulation?	*Yen-Chen Chen, Vigan Mensah, Kay I. Ohshima
R2-O-16	17:00 - 17:15	Internal Solitary Waves in the Western Arctic Ocean	*Igor E. Kozlov, Aleksey V. Kuzmin, Ilya O. Kopyshov,
R2-O-17	17:15 - 17:30	Cancel (Enhanced Energy Cascade during Sea Ice Melting Season in an Eddy Rich Arctic Ocean)	*Caili Liu, Vasco M�ller, Sergey Danilov
R2-O-18	17:30 - 17:45	Cancel (Mesoscale Eddy Dynamics and Sea Ice Interaction in the Sea of Okhotsk: Insights from SOYA Campaign Drifter Observations)	*Li-Ching Lin, Hwa-Chien, An-Shi Wang, Hoang Nam Nguyen, Huan Meng-Chang

October 28, 13:00 – 18:00

Room 1

Breakout Session

Joint Session S11 + S12

S11: Indigenous Food Security, Sovereignty, and Lifeways in the Northern Communities / S12: Food Sovereignty and Food Security in the Arctic

Chairs: Yoko Kugo, David George Anderson, Jun Akamine

Presentation Code	Time	Title	Author(s)
S11-S12-O-01	13:00 - 13:18	Basque Fisheries and the Global Commodification of Marine Resources in the Late Early Modern Period	*Rie Takagaki
S11-S12-O-02	13:18 - 13:36	Britain's Bounty System and Whale Products in the 1750s: Political Economy and Political Ecology of North Atlantic Whaling	*Yuichi Hiono
S11-S12-O-03	13:36 - 13:54	From Japan to the Arctic: Whaling, Maritime Hegemony, and the Geopolitical Imperatives behind Commodore Perry's Pacific Mission	*Jun Akamine
S11-S12-O-04	13:54 - 14:12	Whale Riders: Parasitic Perspectives and Multispecies Networks in and beyond the Arctic	*Satsuki Takahashi
S11-S12-O-05	14:12 - 14:30	Matters of Concern and Care in the Faroese Pilot Whale Hunt	*DAVID GEORGE ANDERSON
14:30 - 14:45 Coffee Break			
S11-S12-O-06	14:45 - 15:03	"Food Life History" of and socio-ecological impacts on underground food storage in Beringia	*Kazuyuki Saito, Yu Hirasawa, Michael S. Koskey, Yoko Kugo, Theresa John, Go Iwahana, Shirow Tatsuzawa
S11-S12-O-07	15:03 - 15:21	Place-based Food Lifeways and Sovereignty: Coproduction of Knowledge in Indigenous Alaska Communities	*Yoko Kugo, Michael Koskey
S11-S12-O-08	15:21 - 15:39	Operation and Physical Environment of Food Storage Facilities Utilizing Natural Cold Energy	*Go Iwahana, Kazuyuki Saito, Shingo Takazawa, Iurii Zhegusov, Yoko Kugo, Michael Koskey
S11-S12-O-09	15:39 - 15:57	Changing Use Practice of Traditional Ice Cellars "Buluus" for Storing Food Products by the Rural Population of the Republic of Sakha (Yakutia)	*Iurii Zhegusov, Go Iwahana, Kazuyuki Saito
S11-S12-O-10	15:57 - 16:15	Fishing Subsistence among the Kamchatka Indigenous Peoples	*Victoria Sharakhmatova
16:15 - 16:30 Coffee Break			
S11-S12-O-11	16:30 - 16:48	Significance of poverty, well-being and environmental problems among Northern Indigenous Peoples: Evidence from socioeconomic and nutritional surveys in Yakutia	*Shokhrukh Khasanov, Daichi Yamada, Daiju Narita, Tuyara Gavriyeva, Varvara Parilova, Jorge Garcia Molinos
S11-S12-O-12	16:48 - 17:06	Future redistribution of wild food species and current dependencies of rural communities on wild food harvesting in the Sakha Republic (Russian Far East)	*JORGE GARCIA MOLINOS, Daichi Yamada, Varvara Parilova, Shokhrukh Khasanov, Viacheslav Gabyshev, Andrey Makarov, Daiju Narita, Innokentiy Okhlopov, Zhixin Zhang, Stephen C. Sakapaji, Tuyara Gavriyeva
S11-S12-O-13	17:06 - 17:24	Food Sovereignty and Cultural Identity: Observations on the Ainu Foodways	*Sidney Chin Hung Cheung
S11-S12-O-14	17:24 - 17:42	Dividing the Bear as a Gift from the Mountain Deity: Food-Sharing Practices and Contemporary Transformations in the Matagi Society of Northern Japan	*Kaito Matsuura
	17:42 - 18:00	General discussion	

October 28, 13:00 - 17:30

Room 2

Breakout Session

R7:Geospace

Chairs: Takanori Nishiyama, Takuo T. Tsuda, Satoshi Kurita

Presentation Code	Time	Title	Author(s)
R7-O-01	13:00 - 13:30	Space-borne Studies of the Arctic Mesosphere and Lower Thermosphere - some Swedish Perspectives	*Jörg Gumbel
R7-O-02	13:30 - 13:45	Impact of the HTHH eruption's water vapor on polar mesospheric cloud activities observed by Himawari-8/9	*Yosuke Moriyama, Takuo T. Tsuda, Yoshiaki Ando, Hidehiko Suzuki, Hiromu Nakagawa, Takanori Nishiyama, Yoshimasa Tanaka,
R7-O-03	13:45 - 14:00	Resonance-scattering lidar system for simultaneously observing meteoric Ca and Ca ⁺	*Masayuki Katsuragawa, Ayaka Hashimoto, Mutsumi K Ejiri, Sota Kobayashi, Sayako Miyoshi, Hikaru Miyagi, Ken'ichi Nakagawa, Takuo T Tsuda, Keisuke Hosokawa, Takuji Nakamura,
R7-O-04	14:00 - 14:15	Advanced mesopause region wind observations based on MF radar meteor echo measurements	*Masaki Tsutsumi, Toralf Renkowitz, Jorge L. Chau, Juha Vierinen, Njål Gulbrandsen, Satonori Nozawa
R7-O-05	14:15 - 14:30	Atmospheric response to solar proton events in the latest reanalysis data	*Yoshihiro Tomikawa, Jia Jia
14:30 - 14:45 Coffee Break			
R7-O-06	14:45 - 15:15	In-situ and remote studies of the polar ionosphere	*Wojciech J. Miloch
R7-O-07	15:15 - 15:30	Broadband Electric Field Fluctuations Observed by LFAS/WFC onboard SS-520-3 Sounding Rocket	*Satoshi Kurita, Zushi Takahiro, Keigo Ishisaka, Yoshiya Kasahara, Mitsunori Ozaki, Satoshi Yagitani, Yuto Katoh, Takumi Abe, Keisuke Hosokawa, yasunobu Ogawa, Yoshifumi Saito, Hirotsugu Kojima
R7-O-08	15:30 - 15:45	Plasma wave observations by the LFAS/WFC onboard the SS-520-3 sounding rocket	*Takahiro Zushi, Satoshi Kurita, Keigo Ishisaka, Yoshiya Kasahara, Mitsunori Ozaki, Satoshi Yagitani, Yuto Katoh, Takumi Abe, Keisuke Hosokawa, Yasunobu Ogawa, Yoshifumi Saito, Hirotsugu Kohima
R7-O-09	15:45 - 16:00	Purple aurora seen before the SS-520-3 rocket launch on Nov 4, 2021	*Keisuke Hosokawa, Satoshi Kurita, Yoshifumi Saito, Yasunobu Ogawa, Wojciech J Miloch
R7-O-10	16:00 - 16:15	Impact of ionospheric disturbances on DFMC SBAS broadcast from QZSS in Ny-Ålesund	*Toru Takahashi, Takanori Nishiyama, Mitsunori Kitamura, Susumu Saito, Taishi Hashimoto, Takeyasu Sakai,
16:15 - 16:30 Coffee Break			
R7-O-11	16:30 - 16:45	Neutral Temperature Changes in Fine Scale Aurora	*Kate Barton, Daniel K Whiter, Andrew J Kavanagh, Srimoyee Samaddar
R7-O-12	16:45 - 17:00	Current status of EISCAT_3D, Japan's efforts toward EISCAT_3D, and international joint research using EISCAT_3D	*Yasunobu Ogawa,, Hiroshi Miyaoka, Satonori Nozawa, Shin-ichiro Oyama, Koji Nishimura, Takuo T. Tsuda, Hitoshi Fujiwara, Masaki Tsutsumi,, Yoshimasa Tanaka,, Takanori Nishiyama, Mizuki Fukizawa, Keisuke Hosokawa, Yoshizumi Miyoshi, Takuji Nakamura, Ryoichi Fujii
R7-O-13	17:00 - 17:15	Statistical study on oscillations in drifts of auroral patches observed in the morning sector	*Yoshimasa Tanaka,, Yasunobu Ogawa,, Mizuki Fukizawa, Keisuke Hosokawa
R7-O-14	17:15 - 17:30	Spectroscopic and Imaging Observations at 1.05-1.35 μm for Aurora and Airglow from the Upper Mesosphere to the Lower Exosphere at Longyearbyen, Svalbard	*Takanori Nishiyama, Masato Kagitani, Takuo T. Tsuda, Noora Partamies, Peter Dalin, Daniel Whiter, Yuki Iwasa, Yasunobu Ogawa, Fred Sigernes

October 28, 18:30 - 19:30

Hall A/B

Plenary

Icebreaker



The Eighth International Symposium of Arctic Research (ISAR-8)

**Program
Day 2**

**October 29, 2025
Tokyo Tama-Mirai-Messe**

October 29, 9:30–11:00

Hall C/D

Breakout Session

R2:Ocean and sea ice

Chair: Satoshi Kimura

Presentation Code	Time	Title	Author(s)
R2-O-19	9:30 - 9:45	ρ CO ₂ Variation in Ice-Covered Regions of the Arctic Ocean	*Ahra Mo, Keyhong Park, Jung-Ok Choi, Eun Jin Yang
R2-O-20	9:45 - 10:00	Interannual Variability in Terrestrial Dissolved Organic Matter Advection to the Eastern East Siberian Sea Under Contrasting Beaufort Gyre Conditions	*Mi Hae Jeon, Jinyoung Jung, Juyoung Son, Kyoung-Ho Cho, Eun Jin Yang
R2-O-21	10:00 - 10:15	Seasonal variation of nutrient transport by low-density Pacific water passing through Barrow Canyon	*Ikkan Kamiyama, Michiyo Yamamoto-Kawai, Motoyo Itoh
R2-O-22	10:15 - 10:30	Vertical expansion of aragonite undersaturated waters in the Canada Basin of the Arctic Ocean from 2003 to 2019	*Michiyo Yamaoto-Kawai, Haruka Tsujimoto, Yuanxin Zhang, Sarah Zimmermann, William Williams
R2-O-23	10:30 - 10:45	The impact of ocean acidification on calcareous organism in the Arctic Ocean: Application of X-ray micro-CT technology	*Shinya Iwasaki, Hayato Yoshimura, Renata Teresa Szarek, Katsunori Kimoto, Rika Horiuchi, Masanobu Yamamoto
	10:45 - 11:00	General discussion	
11:00 - 11:15 Coffee Break			

October 29, 9:30–11:00

Room 1

Breakout Session

S8:Indigenous ontologies and ecological knowledge: perspectives from Sakha Sire

Chair: Stanislav Saas Ksenofontov

Presentation Code	Time	Title	Author(s)
S8-O-01	9:30 - 9:45	Living with ice: Indigenous perspectives from Sakha	*Tatiana (Tanya) Argounova-Low
S8-O-02	9:45 - 10:00	Names within Names: Indigenous Memory and Ontology in Sakha Naming Practices	*Kyunney Takasaeva
S8-O-03	10:00 - 10:15	On good terms: pathways to decolonizing science-appropriated Indigenous terminologies in Arctic research	*Stanislav Saas Ksenofontov, Vera Kuklina, Andrey Petrov, Alexander Kholodov
S8-O-04	10:15 - 10:30	The Role of Infrastructure in Shaping Diets in the Sakha Republic	*Varvara Parilova, Tuyara Gavrilieva
S8-O-05	10:30 - 10:45	The Jeanette Expedition (1879–1881): A Case Study of Survival and Survivance in the Arctic	*Galia Talba Williams
	10:45 - 11:00	General discussion	
11:00 - 11:15 Coffee Break			

October 29, 9:30–11:00

Room 2

Breakout Session

R10:Engineering for sustainable development

Chairs: Akihisa Konno, Takuji Waseda

Presentation Code	Time	Title	Author(s)
R10-O-01	9:30 - 9:45	Sustainability reporting as a key driver in the transition to sustainable Arctic shipping	*Mauricio Latapi, Ran Ju, Hyemin Yoo
R10-O-02	9:45 - 10:00	Research Tasks for Sustainable Arctic Shipping to be Tackled with	*Natsuhiko Otsuka, Shotaro Uto, Kjell Stokvik
R10-O-03	10:00 - 10:15	Application of the Material Point Method to Estimate Ice Loading on Bridge Piers: A Case Study of the Confederation Bridge	*Igor Gribanov, Takuji Waseda
R10-O-04	10:15 - 10:30	Methods of choosing the optimal route of navigation along the Northern Sea Route	*Tatiana Alekseeva, E. Makarov, V. Fedyakov, R. May, E. Sapershtein, E. Afanasyeva, E. Pavlova, A. Ershova, S. Serovetnikov, M. Tatarkin, V. Kotelnikov
R10-O-05	10:30 - 10:45	Autonomous Remotely Operated Vehicles Observatories for Long-Term Ocean-Ice Monitoring	*Coralie Elmaleh, Marcel Nicolaus, Christian Katlein
R10-O-06	10:45 - 11:00	Low-temperature algal biotechnology for the Arctic	Josef Elster, *Jana Kviderová, Jaromir Lukavský, Linda Nedbalová, Lenka Procházková, Jiří Liška, Vojtěch Bělohav, Tomas Jirout, Jan Triska, Karel Hořejší
11:00 - 11:15 Coffee Break			

October 29, 11:15–12:45

Hall C/D

Breakout Session

S2:MOSAIc and Beyond: Cross-Cutting Results and Future Plans for Icebreaker-Based Arctic Research

Chairs: Yusuke Kawaguchi

Presentation Code	Time	Title	Author(s)
S2-O-01	11:15 - 11:45	Contrasts of sea ice regimes in the Arctic Ocean during melt season	*Marcel Nicolaus, Thomas Krumpen, Zoe Koenig, Morten Hvitfeldt Iversen, Sandro Dahlke
S2-O-02	11:45 - 12:00	Snow melt onset along MOSAIc buoy drift trajectories in the Arctic: a process-oriented modelling study	*Bin Cheng, Hao Yin, Roberta Pirazzini, Petri Räisänen, Timo Vihma, Jie Su
S2-O-03	12:00 - 12:15	Integrated Retrieval of Sea Ice and Snow Variables using the SMRT Model and Optimal Estimation Method: Application and Validation with MOSAIc and FACE2024 Observations	*Yufang Ye, Ziyu Yan, Zhuoqi Chen, Xiao Cheng
S2-O-04	12:15 - 12:30	Sea Ice Ridges – The Known Unknown Of The Arctic Icescape – Key Findings From The MOSAIc expedition	*Mats Anders Granskog
S2-O-05	12:30 - 12:45	Intrahalocline eddies during MOSAIc	Alejandra Quintanilla Zurita, *Benjamin Rabe, Claudia Wekerle, Torsten Kanzow, Ivan Kuznetsov, Sinhue Torres Valdes, Enriq Pallás Sanz, Ying-Chih Fang
Will resume at 15:00.			

October 29, 11:15–12:45

Room 1

Breakout Session

S10:Myth, Memory, and Mobilization: Interdisciplinary Insights into Indigenous Experiences of War

Chairs: Hiroki Takakura

Presentation Code	Time	Title	Author(s)
S10-O-01	11:15 - 11:33	Militarised Peripheries: Structural Violence, Gender, and Resource Politics in Indigenous Russia	*Stephan Dudeck Dudeck,
S10-O-02	11:33 - 11:51	Nested Wars, Nested Memories: Nenets Reindeer Herders' Fraught Relationship with the <i>Lutsa</i>	*Laur Vallikivi
S10-O-03	11:51 - 12:09	Rewriting the Past, Shaping the Present: Memory, Manipulation, and Militarized Public Opinion	*Victoria Peemot,
S10-O-04	12:09 - 12:27	Siberian indigenous Evenki Experiences and Perceptions of Warfare	*Donatas Brandisauskas
S10-O-05	12:27 - 12:45	Between Field and Museum Collections: War Experiences of Indigenous Peoples and Ethnographers in 20th Century Sakhalin	*Sakurako Koresawa
Will resume at 15:00.			

October 29, 11:15–12:45

Room 2

Breakout Session

R5:Terrestrial ecosystems

Chairs: Hirohiko Nagano, Tomoaki Morishita

Presentation Code	Time	Title	Author(s)
R5-O-01	11:15 - 11:30	Cancel (Accumulation of trace elements in selected permafrost-affected soils of the Russian Arctic: environmental and human-induced effects)	*Ivan Alekseev, Elena Grek, Antonina Ghetverova
R5-O-02	11:30 - 11:45	Resilience and Transformation of Terrestrial Ecosystems in the Arctic North Atlantic: A Multi-Proxy Paleoeological Perspective	*Elia Roulé, Emilie Gauthier, Marguerie Dominique
R5-O-03	11:45 - 12:00	Enhanced Detection of Arctic Phenology on Svalbard with Deep Learning and MODIS–Sentinel–Landsat Imagery	*Katarzyna Anna Ostapowicz
R5-O-04	12:00 - 12:15	Impact of High Temperature Events on Carbon Balance in Northern Hemisphere	*Takuto Taguchi, Masayuki Kondo, Hironari Kanamori, Tetsuya Hiyama
R5-O-05	12:15 - 12:30	Characteristics of atmospheric coupling above and below the canopy in three coniferous forest sites	*Taro Nakai, Tetsuya Hiyama, Yen-Jen Lai, Ayumi Kotani, Hiroki Ikawa, Hideki Kobayashi, Takeshi Ohta, Trofim C. Maximov
R5-O-06	12:30 - 12:45	Methane emission from glacier discharge water in Alaska	*Keiko Konya, Tetsuo Sueyoshi, Go Iwahana, Tomoaki Morishita, Masahide Wakita, Jun Uetake

October 29, 12:45 – 14:00

Lunch Break

October 29, 12:45 – 14:00

Room 3

Side meeting

Side meeting

Contact : Jan Rene Larsen

Meeting of the Board of the Sustaining Arctic Observing Networks (SAON)

October 29, 12:45 – 14:00

Room 5

Side meeting

Side meeting

Chair : Medy Dervovic

Book Presentation: Arctic Policies of Non-Arctic States (Studies in Polar Law, Volume 4, Brill 2025)

October 29, 12:45 – 14:00

Room 4

Side meeting

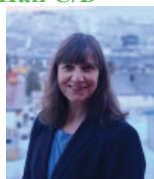
Side meeting

Contact : Ami Shirano

ASSW 2027 LOC Meeting

October 29, 14:00 – 14:45

Hall C/D



Plenary Session

Keynote Speech 2

Chair: Shigeto Nishino

Speaker: Anna Nikolopoulos, Senior Advisor/ UiT The Arctic University of Norway, Tromsø, Norway

Presentation Title : The pan-Arctic Network of Distributed Biological Observatories – Increasing our Understanding of Changes to Arctic Marine Ecosystems by Enhancing existing Observing Capacities

October 29, 15:00–16:30

Hall C/D

Breakout Session

S2:MOSAIC and Beyond: Cross-Cutting Results and Future Plans for Icebreaker-Based Arctic Research

Chairs: Mats Granskog

Presentation Code	Time	Title	Author(s)
S2-O-06	15:00 - 15:30	What have we learned from one year of aerosol observations in the central Arctic during MOSAIC?	*Julia Schmale, Benjamin Heutte, Nor Bergner, Ivo Beck, Lubna Dada, Helene Angot, Camille Mavis, Matthew Boyer, Laurianne Quelevar, Tuija Jokinen, Kerri Pratt, Jessie Creamean
S2-O-07	15:30 - 15:45	Emerging hyperspectral imaging applications for sea-ice biogeochemical research	*Emiliano Cimoli, Benjamin Lange, Vanessa Lucieer, Daiki Nomura, Klaus Meiners, Janina Osanen, Keigo Takahashi, Florian Zimmer, Marcel Nicolaus, Jutta Wollenburg, Mats Granskog
S2-O-08	15:45 - 16:00	Nutrient dynamics in Melt ponds and Pond bottom ice observed during the MOSAIC Expedition	*Ryota Akino, Daiki Nomura, Alison Webb, Yuhong Li, Manuel Dall'osto, Katrin Schmidt, Elise Droste, Emelia Chamberlain, Nikolai Kolabutin, Egor Shimanchuk, Ruzica Dadic, Alison A. Fong0, Sinhué Torres-Valdés0, Clara J. M. Hoppe0, Laura Whitmore, Hanno Meyer, Yuichi Nosaka, Jun Inoue, Oliver Müller, Bruno Delille
S2-O-09	16:00 - 16:15	Assessment of the drivers of short-term sea surface pCO_2 variability in the central Arctic Ocean	*Manami Tozawa, Daiki Nomura, Nicholas Roden, Elise S Droste, Adam Ulfsbo, Drothe Bakker, Mario Hoppema, Torres-Valdés Sinhué, Agneta Fransson, Melissa Chierici, Brice Loose, Jun Inoue, Bruno Delille0
S2-O-10	16:15 - 16:30	Cancel(Transarctic 2024: Bridging Arctic Science and Tourism)	*Megan CLAMPITT

October 29, 15:00–16:30

Room 1

Breakout Session

S10:Myth, Memory, and Mobilization: Interdisciplinary Insights into Indigenous Experiences of War

Chairs: Donatas Brandišauskas

Presentation Code	Time	Title	Author(s)
S10-O-06	15:00 - 15:18	"Putin's Militant Buryats", Ukraine war and the "Mongol Yoke/Horde Legacy" Theory	*Maria Vyushkova
S10-O-07	15:18 - 15:19	Move to KeyNote 1 (Evacuation in Mongolia of Russian Indigenous Migrants related to Russo-Ukrainian War)	*Hiroki Takakura, Kaori Horiuchi, Dalaiubayan Byambajav
S10-O-08	15:19 - 15:37	Indigenous Experiences of War: Sakha (Yakut) and Evenki Legacies and Lessons	*Marjorie Mandelstam Balzer
S10-O-09	15:37 - 15:55	The Siberian peoples and the Russo-Ukrainian War: On anti-anti-humanism as a discursive dimension of anthropology	*Hibi Y. Watanabe
	15:55 - 16:30	General discussion	

October 29, 15:00–16:30

Room 2

Breakout Session

R4:Ice sheets, glaciers, and ice cores

Chair: Yukihiro Onuma

Presentation Code	Time	Title	Author(s)
R4-O-01	15:00 - 15:15	Microorganisms at the interface between the atmosphere and the cryosphere	*James Andrew Bradley, Rey Mouro, Amy Solman, Laura Molares Moncayo, Catherine Larose, Elizabeth Trembath-Reichert, Rachael Lappan, Chris Greening, Jacqueline Goordial
R4-O-02	15:15 - 15:30	Temporal change of algal community in red snow on Gulkana Glacier, Alaska	*Suzunosuke Usuba, Takumi Murakami, Yukihiro Onuma, Kino Kobayashi, Ryohei Abe, Tetsuya Akabayashi, Ryotaro Takema, Nozomu Takeuchi
R4-O-03	15:30 - 15:45	A 100-Year Record of Mineralogical Variations in Northeastern Greenland Ice-core Dust: Insights from Individual Particle Analysis	*Naoko Nagatsuka, Kumiko Goto-Azuma, Kana Nagashima, Koji Fujita, Yuki Komuro, Motohiro Hirabayashi, Jun Ogata, Kaori Fukuda, Yoshimi Ogawa-Tsukagawa, Kyotaro Kitamura, Ayaka Yonekura, Fumio Nakazawa, Yukihiro Onuma, Naoyuki Kurita, Sune Olander Rasmussen, Giulia Sinnl, Trevor James Popp, Dorth Dahl-Jensen
R4-O-04	15:45 - 16:00	Return of the Bowdoin Glacier: measuring the dark side of the force	*Julien Seguinot, Evgeny A. Podolskiy, Shin Sugiyama,
R4-O-05	16:00 - 16:15	Filling and Drainage of Subglacial Lakes Beneath the Greenland Ice Sheet	*Qi Liang, Zheng Lei, Zhuoqi Chen, Xiao Cheng, Sha Peng, Meng Yang
R4-O-06	16:15 - 16:30	Marine-terminating glacier surge in Svalbard as part of upward thinning propagation triggered at front	*Whyjay Zheng,

October 29, 15:00–16:30

Room 5

Breakout Session

S13:Designing Quality of Life in Arctic Communities Amid Global Transformations in Environmental, Political, and Economic Processes

Chair: Naotaka Hayashi

Presentation Code	Time	Title	Author(s)
S13-O-01	15:00 - 15:15	When social capital emerges and how a community can be a community: Cases in Greenland	*Naotaka Hayashi
S13-O-02	15:15 - 15:30	Living Conditions and Perceived Quality of Life among Indigenous Peoples in the Arctic	*Birger Poppel, MarieKathrine Poppel
S13-O-03	15:30 - 15:45	Peripheral Associations and Community Formation in Post-post Socialist Siberia	*Yuka Oishi
S13-O-04	15:45 - 16:00	Making Communities with Alien Species: The Impact of Muskox Introduction on the Indigenous Community of Nunivak Island, Alaska	*HIROYA NOGUCHI,
S13-O-05	16:00 - 16:15	The Aasivissuit – Nipisat UNESCO World Heritage Site Interactive Heritage Map: A Concrete Example of Collaboration and Community Building in West Greenland	*M. Cecilia Porter
S13-O-06	16:15 - 16:30	Co-Creating Walkable Winter Cities: A Comparative Study of Sapporo and Arctic Urban Areas	*Tu-Uyen Thi Tran, Eman Hussein Elsayed Touliabah, Kristine Marie Apaya Casals, Joyce Anne Denise Surio Cortez, Gefei Hou, Taito Sakai, Emmilce A. Morillas, Chinatsu Igarashi, Marina Lomaeva, Juha Saunavaara

October 29, 16:45–18:15

Hall A/B

Poster Session

Poster Session Core Time 1

Presentations are from the session R2, R4, R5, and R7.

Presentation Code	Title	Author(s)
R2-P-01	2000 years mercury records preserved in Arctic Ocean sediment cores: perspective from the Natural Variability and Anthropogenic Influence	*Koyomi Nakazawa, osamu Nagafuchi, Ken'ichi Shinozuka, Tesuo Sueyoshi, Masanobu Yamamoto
R2-P-02	Isotopic composition of seawater nitrate in the Chukchi Sea and its implication for denitrification and the N cycle	*Aymeric Pierre Marie Servettaz, Akiko Makabe, Chisato Yoshikawa, Motoyo Itoh
R2-P-03	Interannual Variability of Ocean Acidification in the Southern Canada Basin: Focus on Mackenzie River and Pacific Water Contributions	*Siyi Yin, Michiyo Yamamoto Kawai
R2-P-04	Arctic marine environments regulated by ocean transport and air-sea-land interaction: Findings from the ArCS II Ocean Research Program and future perspectives	*Eiji Watanabe, Hiromichi Ueno
R2-P-05	Turbulent mixing and submesoscale dynamics in the Kara and Barents Seas	*Igor E. Kozlov, Ilya O. Kopyshov, Vladimir A. Korzhuev, Alexey V. Zimin
R2-P-06	Subsurface warming associated with Pacific Summer Water transport toward the Chukchi Borderland in the Arctic Ocean	Miaki Muramatsu, Eiji Watanabe, Motoyo Itoh, Jonaotaro Onodera, Kohei Mizobata, *Hiromichi Ueno

R2-P-07	Changes in the central Arctic during the past 2 decades with focus on the Amundsen and Makarov basins	*Benjamin Rabe, Jacob Allerholt, Ke-Hsien Fu, Céline Heuzé, Ying-Chih Fang, Mario Hoppmann, Oliver Huhn, Tao Li, Yusuke Kawaguchi, Boris Koch, Ivan Kuznetsov, Alejandra Quintanilla Zurita, Simran Suresh, Sandra Tippenhauer, Sinhue Torres Valdes, Myriel Vredenburg, Hau-Man Wong, Jialiang Zhu
R2-P-08	Generation of Nonlinear Internal Waves in the Kara Gates Strait, Arctic Ocean	*Ilya Olegovich Kopyshov, Igor Evgenievich Kozlov
R2-P-09	Underestimated Atlantic Heat Transport and Its Influence on Sea Ice in CESM2	*Jung Hyun Park, Joo-Hong Kim, Seong-Joong Kim, Baek-Min Kim
R2-P-10	Modeling of spectral and broadband albedo of ice	*Tomonori Tanikawa, Kazuhiko Masuda, Hiroshi Ishimoto, Teruo Aoki, Knut Stamnes
R2-P-11	Repeated airborne and in-situ observations of melt pond characteristics during the RV Polarstern 2025 CONTRASTS expedition	*Torben Blei, Gerit Birnbaum, Niels Fuchs, Christian Haas, Thomas Krumpfen, Niklas Neckel
R2-P-12	A Study on Sea Ice Thickness Estimation Using UAV-LiDAR	*Hayate Kato, Kazutaka Tateyama, Hidekazu Shirai, Yuki Shimura
R2-P-13	A temporal Bayesian model averaging method for sea ice drift data fusion	*Zhizhuo Xu
R2-P-14	Rheology independent stability analysis of viscous-plastic sea-ice model	*Satoshi Kimura, Jinro Ukita
R2-P-15	The biogeochemical characteristics of sediment-laden ice along the coast of Alaska: Potential impact of sediment loads on nutrients	*Ryota Akino, Daiki Nomura, Masaki Yoshimura, Keigo D Takahashi, Amane Fujiwara, Mariko Hatta, Hisatomo Waga, Laura Whitmore
R2-P-16	Exploring hyperspectral imaging techniques to elucidate cryogenic mineral formation and function in Arctic sea ice	*Emiliano Cimoli, Daiki Nomura, Keigo Takahashi, Jutta Wollenburg, Ilka Peecken, Marcel Nicolaus, Vanessa Lucieer, Morten Iversen,
R4-P-01	Numerical modeling of bio-albedo effects on snow and glacier ice surfaces in the Arctic region	*Yukihiko Onuma, Nozomu Takeuchi
R4-P-02	The dark ice expansions on Gulkana Glacier in Alaska revealed by UAV imagery	*Takuma Kogo, Masato Ono, Nozomu Takeuchi
R4-P-03	Variations in dark-stripe patterns on the ablating ice surface of the Greenland Ice Sheet	*Nozomu Takeuchi, Akane Uruma
R4-P-04	Single-cell imaging reveals efficient nutrient uptake and growth of microalgae darkening the Greenland Ice Sheet	*Laura Halbach, Katharina Kitzing, Martin Hansen, Sten Littman, Liane G Benning, James A Bradley, Martin J Whitehouse, Malin Olofsson, Rey Mouro, Martyn Tranter, Marcel M. M. Kuypers, Lea Ellegaard-Jensen, Alexandre M Anesio
R4-P-05	Decadal surface energy and mass balance variations observed around the equilibrium line altitude in Qaanaaq Ice Cap, northwest Greenland, during 2012–2022	*Motoshi Nishimura, Teruo Aoki, Masashi Niwano, Motomu Oyama, Sumito Matoba, Tomonori Tanikawa, Satoru Yamaguchi, Rigen Shimada, Takumi Suzuki
R4-P-06	Glacioclimatic studies on Alexandra Land, Franz Josef Land Archipelago	*Arseniy Degtyarev, Alexander Dobriansky, Mstislav Vorobyev
R4-P-07	Global glacial inception threshold reveals concealed glaciation on Japanese volcanoes	*Julien Seguinot, Marijke Van Cappellen, Etienne Legrain, Rodrigo Aguayo, Lander Van Tricht, Andreas Born, Harry Zekollari,
R4-P-08	Wahlenbergreen, Kronebreen and Monacobreen glaciers surface velocities from remote sensing data for 2017–2023	*Denis Trunin, Andrey Glazovsky
R4-P-09	Four decades of pan-Arctic calving fluxes from multimodal satellite imagery	*Jonathan L Bamber, Tian Li
R4-P-10	Analysis of GLOFs and seasonal glacial change on Mendenhall Glacier with Sentinel-1 InSAR method	*Sou Ikarashi
R4-P-11	Monitoring seismicity near Tracy and Heilprin glaciers (Inglefield Bredning, Greenland)	*Masahiro Minowa, Evgeny A. Podolskiy, Shin Sugiyama,
R4-P-12	Reconstructions of local and remote dust variations at EGRIP, northeastern Greenland	*Yuki Komuro, Fumio Nakazawa, Kumiko Goto-Azuma, Naoko Nagatsuka, Motohiro Hirabayashi, Jun Ogata, Kaori Fukuda, Naoyuki Kurita, Koji Fujita, Ayaka Yonekura, Kyotaro Kitamura, Giulia Sinnl, Sune Olander Rasmussen, Trevor James Popp, Dorthe Dahl-Jensen
R4-P-13	Temporal and spatial changes in mineral dust composition deposited on an alpine snowpack	*Pia Ataka, Ryo Sugiyama, Nozomu Takeuchi
R4-P-14	Characteristic of snowpack chemistry on the coastal region in the northwestern Greenland Ice Sheet facing the North Water	*Yutaka Kurosaki, Sumito Matoba, Mai Matsumoto, Tetsuhide Yamasaki, Ilannguaq Hendriksen, Yoshinori Iizuka
R4-P-15	Changes in the glaciers and snow patches of the Mutnovsky and Gorely volcanoes (southern Kamchatka) for 1973–2023	*Yulia Stelmakh, Dmitry Petrakov
R5-P-01	Post-Agrarian Dynamics of Steppe and Meadow Ecosystems in Sporadic Permafrost Region of Southern Siberia: A Multi-Decade Satellite-Based Analysis	*Natalia Ilinova
R5-P-02	Germination responses to warming temperatures in three common High Arctic plants	*Soshi Osaki, Masaki Uchida, Takayuki Nakatsubo
R5-P-03	Intraspecific variations in fine root respiration and non-structural carbohydrates of black spruce under different permafrost conditions in interior Alaska	*Yuki Hashimoto, Naoki Makita, Masahito Ueyama, Hiroki Iwata

R5-P-04	Time Lag Response of Stem Respiration to Temperature and Radiation in Boreal Forest Stands, Interior Alaska	*Yongwon Kim, Sang-Jong Park, Koh Yasue, Jeffery Warren
R5-P-05	Climate responses of radial growth of <i>Betula platyphylla</i> and <i>Larix sibirica</i> growing on permafrost of Khentii mountains, Mongolia	*Koh Yasue, Ryodai Kurata, Yudong Shen, Koki Fukushima, Yojiro Matsuura, Tetsuo Shirota, Gerelbaatar Sukhbaatar, Nachin Baatarbileg
R5-P-06	Climate Response of Radial Growth of Alaskan Birch Growing in Interior Alaska	*Koki Shimada, Yojiro Matsuura, Shinta Ohashi, Koh Yasue
R5-P-07	Effects of soil warming on growth of <i>Sphagnum</i> mosses in a permafrost black spruce	*Kyotaro Noguchi, Gaku Amada, Hideki Kobayashi
R5-P-08	Effects of deep soil warming on plant and soil characteristics in a boreal forest underlain by permafrost in interior Alaska	*Gaku Amada, Hiroki Ikawa, Tsutomu Watanabe, Shoichi Mori, Fumiaki Saito, Kazuyuki Fujita, Hideki Kobayashi
R5-P-09	Simulating Soil-Plant-Climate Interactions and Greenhouse Gas Exchange in Boreal Grasslands Using the DNDC Model	*Daniel James Forster, Jia Deng, Matthew Tom Harrison, Shurpali Narashinha
R5-P-10	Chemical changes in decomposing leaves and stems of <i>Salix arctica</i> as elucidated with	Takuya Takao, *Takashi Osono, Masaki Uchida
R5-P-11	Environmental Drivers and Microbial Network Complexity Shape Soil Bacterial Communities Across the High and Low Arctic	*Shu Kuan Wong, Xinyu Xu, Shota Masumoto, Ryo Kitagawa, Keita Nishizawa, Akira S. Mori, Masaki Uchida,
R5-P-12	Microbial distribution and diversity in Finnish grassland soils	*Maki Miura, Miikka Benjami Laine, Daniel Forster, Marja Tirola, Kimihiko Mizutani, Narasinha Shurpali, Shinya Funakawa,
R5-P-13	Cancel (Probing Amino Acid and Lipid Synthesis to Quantify Microbial Dormancy and Growth Rates in the Forefield of a Receding High-Arctic Glacier)	*Rachel R-Rubin, Tristan Caro, James Bradley, Adam J Sofon, Ashley Maloney, Ruth Quispe Pilco, Zhou Lyu, Easton Klein, Steven K Schmidt
R5-P-14	Differences in the sensitivity of xylem production among branches, stems, and roots to environmental changes in black spruce	*Tomoko Tanabe
R5-P-15	Cancel (Microbial Communities and Extracellular Polymeric Substances (EPS) in High Arctic Supraglacial Environments)	*Ruth Estefany Quispe Pilco
R7-P-01	A single-board computer-based all-sky digital camera system for monitoring weather and aurora conditions	*Takuo T. Tsuda, Takeshi Aoki, Keisuke Hosokawa, Yasuhide Hobara, Takanori Nishiyama, Yasunobu Ogawa, Tetsuya Kawabata, Satonori Nozawa, Shin-ichiro Oyama
R7-P-02	Wave-like structures propagating from the mesosphere to the thermosphere observed by Tromsø Na Lidar and EISCAT radars	*Jinyi Hu, Takuo T. Tsuda, Satonori Nozawa, Tetsuya Kawabata, Norihito Saito, Takuya D. Kawahara, Toru Takahashi
R7-P-03	Feasibility Study of Ion Velocity Field Estimation in the Ionospheric F Region for EISCAT_3D Radar Observations	*Mizuki Fukizawa, Yasunobu Ogawa, Koji Nishimura, Genta Ueno, Takanori Nishiyama, Taishi Hashimoto, Takuo Tsuda
R7-P-04	Estimating the Extent of Chorus Wave Source Region: LAMP Sounding Rocket and Ground-Based All-Sky Imager Observations	*Masaya Hirano, Keisuke Hosokawa, Yoshizumi Miyoshi, Kazushi Asamura, Marc Lessard, Matthew Mcharg, Allison Jaynes, Mykhaylo Shumko, Vincent Ledvina, Don Hampton, Takeshi Sakanoi, Takefumi Mitani, Taku Namekawa0, Masahito Nose, Yasunobu Ogawa, Alexa Halford
R7-P-05	Statistical study on pulsating aurora and ducted chorus wave propagation: Ground-satellite conjugate observations over Scandinavia	*Yuri Ito, Yasunobu Ogawa, Yoshimasa Tanaka, Akira Kadokura, Mizuki Fukizawa, Keisuke Hosokawa, Yoshizumi Miyoshi, Tomoaki Hori, Yoshiya Kasahara, Shoya Matsuda, Iku Shinohara
R7-P-06	The resonance-scattering Ca/Ca ⁺ lidar; measurement of densities, temperatures, and velocities	*Ayaka Hashimoto, Mutsumi K. Ejiri, Sota Kobayashi, Sayako Miyoshi, Hikaru Miyagi, Ken'ichi Nakagawa, Takuji Nakamura, Takuo T. Tsuda, Keisuke Hosokawa, Masayuki Katsuragawa,
R10-P-02	Comparison of Ship Resistance in Brash Ice Channel between Numerical Simulation and Ice Tank Tests	*Keisuke Anzai, Shigeya Mizuno, Yutaka Yamauchi

October 29, 17:00 – 18:30

Room 5

Special Event

Chair : Hajo Eicken

”Responses to changing Pacific Arctic environments: Research in Alaska and collaboration opportunities”

Supported by Sasakawa Peace Foundation

October 29, 19:00 – 21:00

Venue: Syo-ou (翔王), 5F , Keio Plaza Hotel

Banquet

Supported by Sasakawa Peace Foundation



The Eighth International Symposium of Arctic Research (ISAR-8)

**Program
Day 3**

**October 30, 2025
Tokyo Tama-Mirai-Messe**

October 30, 9:30 – 11:00

Hall C/D

Breakout Session

S3:Toward the second Synoptic Arctic Survey in 2030 - a springboard for the 5th International Polar Year 2032–33

Chair: Shigeto Nishino

Presentation Code	Time	Title	Author(s)
S3-O-01	9:30 - 9:45	SAS II science topics on hydrography and biogeochemistry	*Shigeto Nishino, Mariko Hatta
S3-O-02	9:45 - 10:00	Benthic Ecosystem Studies in the Pacific Sector from the Outer Shelf to Deep Basins of the Arctic Ocean	*Jacqueline Mary Grebmewier, Lee W Cooper
S3-O-03	10:00 - 10:15	Zooplankton distributions and key biological parameters in the western Arctic basins and shelf/slope regions	*Robert G Campbell, Carin J Ashjian, Cecilia Gelfman, John C Wigglesworth, Lee Cooper, Cedric Magen
S3-O-04	10:15 - 10:30	Real-Time Silicate Analysis from Underway Sampling Using a Miniaturized Shipboard Analyzer	*Mariko Hatta, Shota Kusakabe, Takashi Kikuchi
S3-O-05	10:30 - 10:45	First year-round mixed layer time-series observation in the Barrow Canyon and evaluation of the canyon transport	*Motoyo Itoh
S3-O-06	10:45 - 11:00	The pan-Arctic network of Distributed Biological Observatories (DBOs): Enabling integrated, long-term marine observations.	*Anna Nikolopoulos, Kumiko Azetsu-Scott, Lee W Cooper, Christina L Goethel, Jacqueline M Grebmeier, Jinyoung Jung, Craig M Lee, Igor V Polyakov, Marit Reigstad, Arild Sundfjord, Laura M Whitmore, Eun Jin Yang
11:00 - 11:15 Coffee Break			

October 30, 9:30 – 12:45

Room 1

Breakout Session

Joint Session S5 + S6

S5:Approaches to Sea Ice and Climate Predictions, Process Studies for Advancing Understanding and Forecasting, and Their Utilization for Stakeholders / S6:Sea ice research and machine learning: Opportunities to fill knowledge gaps

Chairs: Gaëlle Veyssi re, Jun Ono

Presentation Code	Time	Title	Author(s)
	9:30 - 9:35	Explanation of purpose	
S5-S6-O-01	9:35 - 9:50	Monitoring Beaufort Sea Ice Drift During the Freeze Season Using FY-3D Thermal Infrared and FY-3E Low-Light Imagery	*Xue Wang., Ran Lu, Xingle Pan, Yuwei Hou, Meng Yang
S5-S6-O-02	9:50 - 10:05	Retrieving Arctic snow depth with machine learning and multi-source remote sensing data	*Mengmeng Li
S5-S6-O-03	10:05 - 10:20	Use of L-band Radiometry for Sea Ice Thickness Estimation: From Field Campaigns to Satellite Evaluation	*Carolina Gabarr�, Ferran Hern�andez-Maci�, Marcus Huntemann, Gunnar Spreen, Randy K. Scharien, Pedro Elosegui, Eva De Andres
S5-S6-O-04	10:20 - 10:35	Melting processes of the marginal ice zone inferred from floe size distributions measured with a drone in the southern Sea of Okhotsk	*Takenobu Toyota, Yuriko Arihara, Takuji Waseda, Masato Ito, Jun Nishioka
S5-S6-O-05	10:35 - 10:50	Spring sea ice thickness as a predictor of summer sea ice distribution in the Arctic Ocean	*Noriaki Kimura, Hiroyasu Hasumi
	10:50 - 11:00	Poster Flash Talks	
11:00 - 11:15 Coffee Break			
S5-S6-O-06	11:15 - 11:30	Evaluation of the 2024 Mid-Term Arctic Summer Sea Ice Forecast by ASIC in Comparison to Observations	*Motomu Oyama, Noriaki Kimura, Hironori Yabuki
S5-S6-O-07	11:30 - 11:45	NIPR's Short-term Sea Ice Forecast Service for the Whole Arctic Ocean Based on Ice-Ocean Coupled Simulations	*Yoshihiro Niwa, Motomu Oyama, Takeshi Sugimura, Hironori Yabuki
S5-S6-O-08	11:45 - 12:00	An Information Support System for Arctic Research Cruises of R/V MIRAI II	*Genki Sagawa
S5-S6-O-09	12:00 - 12:15	Optimizing sea ice parameters mitigates the underestimation of Arctic marine access in CMIP6 climate models	*Chao Min, Qinghua Yang, Hao Luo, Frank Kauker, Qi Shu, Xin Wang, Jiping Liu, Dake Chen
S5-S6-O-10	12:15 - 12:30	Toward seasonal-to-interannual Arctic sea-ice forecast using a climate model	*Jun Ono, Yoshiki Komuro, Hiroaki Tatebe, Noriaki Kimura, Hironori Yabuki
	12:30 - 12:40	Poster Flash Talks	
	12:40 - 12:45	Closing remarks	

October 30, 9:30 – 12:45

Room 2

Breakout Session

R8:Laws, Politics, and Economy

Chairs: Juha Saunavaara, Kamrul Hossain

Presentation Code	Time	Title	Author(s)
	9:30 - 9:35	Introduction	
R8-O-01	9:35 - 9:50	Economic Development of the Russian Arctic Regions under Economic Sanctions	*Shinichiro Tabata
R8-O-02	9:50 - 10:05	Examination of Recent Developments in Russia's Arctic Strategy	*Svetlana Vassiliouk
R8-O-03	10:05 - 10:20	Russia's international Arctic policy after the invasion of Ukraine : Experts' voices in the domestic media	*Marina Lomaeva, Artem Suslov
R8-O-04	10:20 - 10:35	Siberian indigenous peoples facing changes 17th-20th centuries	*Emmanuel Garnier
R8-O-05	10:35 - 10:50	Framing Arctic Governance within Agenda 2030: A Transdisciplinary Systems Approach to Indigenous Cosmology and Epistemologies	*Zia Madani
	10:50 - 11:00	General discussion	
11:00 - 11:15 Coffee Break			
R8-O-06	11:15 - 11:30	Blooming Legal Seascape in the Arctic Ocean: Characterizing the Normative Impact of Climate Change	*Medy Dervovic,
R8-O-07	11:30 - 11:45	Revisiting International Legal Challenges Surrounding Small-Scale Cetacean Hunting in Greenland and the Faroe Islands: Beyond Regulation, Coercion, and Obstruction	*Tomohiko Kobayashi, Yoshinobu Takei
R8-O-08	11:45 - 12:00	Cancel (Science, Strategy, and the North: Japan's Arctic Science Diplomacy in Foreign Policy Context)	*Edward Rhys Jones
R8-O-09	12:00 - 12:15	Legal and Practical Considerations of Marine Scientific Research in the Arctic Ocean: The Case of Japan's New Arctic Research Vessel Mirai II	*Hajime Kimura
R8-O-10	12:15 - 12:30	Arctic Governance as a Hybrid Regime – Conceptual Perspectives and Future Research Agendas	*Jarmo Vakkuri, Jan-Erik Johanson
R8-O-11	12:30 - 12:45	Hybrid Governance in Disaster Pre-Recovery and Reconstruction: Insights for Arctic and International Development	*Tomoe Katoh

October 30, 11:15 – 12:45

Hall C/D

Breakout Session

S4:Arctic Observing Network and international collaboration – perspectives from Asia, Europe and North America

Chair: Michael Karcher

Presentation Code	Time	Title	Author(s)
S4-O-01	11:15 - 11:30	New Initiatives for Arctic Research Vessel Mirai II as an International Research Platform	*Takashi KIKUCHI, Hajime KIMURA, Eiji WATANABE, Eisuke AKANE
S4-O-02	11:30 - 11:45	An overview on FACE (Following Arctic/Antarctic iCE) program	*Xiao Cheng, Xi Zhao, Yufang Ye,
S4-O-03	11:45 - 12:00	FRESH-CARE: Unraveling FRESHwater and ocean Currents changes in the Arctic using REmote sensing	*Marta Umbert, Julia Crespin, Nicolas Werner, Maria Sánchez-Urrea, Marina Gutierrez, Nina Hoareau, Carolina Gabarró, Pedro Elosegui,
S4-O-04	12:00 - 12:15	Quantifying the benefit of Arctic observing systems: Exploring the value of soil temperature observations for understanding permafrost dynamics	*Margot Jeanne Knapen, Marko Scholze, Anna Maria Irrgang, Guido Große, Michael Vossbeck, Thomas Kaminski
S4-O-05	12:15 - 12:30	Common themes and observing needs in the Pacific Arctic: SAON Arctic ROADS as a collaboration framework	*Hajo Eicken, Irene Alabia, Alice Bradley, Matt Jones, Maggie Klope, Emily Lescak, Jamie O'Connor, Margaret Rudolf, Sandy Starkweather, Harmony Wayner
S4-O-06	12:30 - 12:45	Rethinking the Landscape: Inuit Priorities and Scientific Observations in a Time of Change	*Talia Wells, Jeremy Wilkinson, Maribeth Murray, Jackie Dawson, Chantelle Verhey, Rowenna Gryba
Will resume at 17:15.			

October 30, 12:45 – 14:30

Lunch Break

October 30, 12:45 – 14:30

Room 5

Side meeting

Side meeting

Contact : Jan Rene Larsen

ROADS Advisory Panel - Partnership meeting

October 30, 14:30 – 15:15

Hall C/D



Plenary Session

Keynote Speech 3

Chair: Juha Saunavaara

Speaker: Kristín Ingvarsdóttir, Associate Professor / School of Humanities, Faculty of Languages and Cultures, University of Iceland

Presentation Title : Asia and the Nordic Arctic: Growing Partnerships among Like-Minded States?

October 30, 15:30–17:00

Hall A/B

Poster Session

Poster Session Core Time 2

Presentations are from the session R1, R3, R6, R8, R10, S2, S3, S5+S6, and S17.

Presentation Code	Title	Author(s)
R1-P-01	Contribution of Climate Change to Extreme High Temperature in Northern Japan in March 2023	*Kenta Tamura, Tomonori Sato
R1-P-02	Atmospheric rivers along the Eurasian Arctic frontal zone during summer	*Yoshiki Fukutomi, Tetsuya Hiyama
R1-P-03	Two distinct TKE vertical structures near the sea-ice surface	*Changwei Liu, Qinghua Yang, Shijie Peng, Matthew D. Shupe, Bo Han, Dake Chen
R1-P-04	The role of cloud phase in Arctic radiative feedback: Insights from CMIP6 models, reanalysis, and satellite data	*Momoka Nakanishi, Takuro Michibata
R1-P-05	Attribution of Arctic Surface Air Temperature Change in Three Epochs Since the 20th Century	*Takuro Aizawa, Naga Oshima, Seiji Yukimoto, Masayoshi Ishii, Hiroyasu Hasumi
R1-P-06	The Atmospheric Energy Balance Regime Transition and Polar Surface Warming	*Ai-Yun Lee, Yu-Chiao Liang
R1-P-07	Exploiting Aquaplanet Simulations to Explore the Solar Seasonal Impacts on Polar Amplification	*Yinghsiu Yeh, Yu-Chiao Liang
R1-P-08	Latitudinal gradient of brown carbon aerosols from the western North Pacific to the Arctic	*Chunmao Zhu, Fumikazu Taketani, Takuma Miyakawa, Masayuki Takigawa, Yugo Kanaya
R1-P-09	Source attribution of black carbon aerosols in Alaska using ground-based observation and the FLEXPART-WRF model	*Masayuki Takigawa, Fumikazu Taketani, Yugo Kanaya, Takeshi Kinase, Hideki Kobayashi, Chunmao Zhu, Yongwon Kim
R1-P-10	Influence of Long-Range Transport and Emission Variability on Arctic Black Carbon: A Case Study of 2015	*Kazuyo Yamaji, Kyoma Yahara, Tomoki Nishiyama, Kaoru Nishizaki, Yuya Hasegawa, Fumikazu Taketani, Masayuki Takigawa, Yugo Kanaya,
R1-P-11	Impact of Siberian wildfires on ice-nucleating particle concentrations over the Northwestern Pacific	*Fumikazu Taketani, Yutaka Tobo, Takuma Miyakawa, Masayuki Takigawa, Chunmao Zhu, Yugo Kanaya
R1-P-12	Time-series variations of Gaseous Elemental Mercury (GEM) from the northern Pacific to the Arctic Ocean during the summer to early autumn of 2022	*Osamu Nagafuchi, Koyomi Nakazawa, Ken'ichi Shinozuka, Tetsuo Sueyoshi, Masanobu Yamamoto, Yasunori Tohjima
R3-P-01	Record-High Concentrations of Weathering-Derived Ions (Ca^{2+} , Mg^{2+} , and SO_4^{2-}) in the Kolyma River During the 2020 Heatwave in Northeastern Siberia	*Yuto Tashiro, Tetsuya Hiyama, Hironari Kanamori, Hotaek Park, Olga Makarieva, Polina Nikitina, Liudmila Lebedeva, Kazuyoshi Suzuki
R3-P-02	The geochemical composition of the massive ice beds and host sediments in the north of Western Siberia as an indicator of their origin	*Lev Kuziakin, Radik Makshaev, Nataliya Belova, Petr Semenov, Irina Streletskaya
R3-P-03	Sedimentary Records of Black Carbon and PAHs in Thermokarst Lake and Permafrost, Alaskan Arctic: Implications of Biomass Burning Events from Past Fire History	*Hidetoshi Kumata, Masao Uchida, Kanako Mantoku, Go Iwahana, Tetsuya Matsunaka
R3-P-04	Thermokarst development and related vegetation changes detected from time series satellite observations	*Hitoshi SAITO, Yoshihiro Iijima
R3-P-05	Wetlands Underlain by Permafrost as Potential Hotspots of Soil Carbon Storage in Semiarid Mongolia	*Gansukh Yadamsuren, Masayuki Kawahigashi, Jambaljav Yamkhin, Orgilbold Myangan
R3-P-06	Taliks water saturation in permafrost revealed by numerical and field GPR studies	*Anastasiia Sukhanova, Sergey Popov, Marina Kashkevich
R3-P-07	AI for Environmental Change in the Arctic: Detecting Thermokarst in Eastern Siberia with Deep Learning	*Kosuke Takaya, Noriko Kurata, Takeshi Ise, Yoshihiro Iijima
R3-P-08	Assessment of climatic and anthropogenic impacts on the thermal regime of permafrost in selected cities of the Russian Arctic	*Tatiana Sidorova, Valeriy Grebenets
R3-P-09	Trend analysis of monthly blowing snow frequency in the Northern Hemisphere using ICESat-2 data	*Konosuke Sugiura
R3-P-10	Assessment of ERA5-Land Reanalysis for Snow Depth in a Mountain Permafrost Region (the North-East of Russia)	*Oksana Zhunusova, Anastasia Zemlyanskova, Olga Makarieva, Andrey Shikhov
R3-P-11	Avalanche Hazard for Highways in Tajikistan (Case Study of the "Dushanbe–Khujand" Highway)	*Nikolay Shabalin
R3-P-12	Climatological features of extreme precipitation in eastern Siberia during summer	*Takuki Miyoshi
R3-P-13	Cancel (Spring Water Hydrochemistry of Sandy Massifs in the Continuous Permafrost Zone of Transbaikalia)	*Valentina Patamarchuk, Lyudmila Lebedeva, Nadezhda Pavlova

R6-P-01	The Role of Sediment-Laden Sea Ice in Seeding Spring Phytoplankton Blooms in the Arctic	*Amane Fujiwara, Masato Ito, Yuri Fukai, Satoshi Kimura, Mariko Hatta, Hisatomo Waga, Marc Oggier, Laura Whitmore, Daiki Nomura, Hajo Eicken
R6-P-02	Distribution and export flux of transparent exopolymer particles in fast ice area	*Keigo D. Takahashi, Daiki Nomura, Ryota Akino, Masaki Yoshimura, Amane Fujiwara, Hisatomo Waga, Masayoshi Sano, Yuichi Nosaka
R6-P-03	How do settled diatoms affect autumn blooms?: A process study of sediment resuspension in the Chukchi shelf	*Yuri Fukai, Amane Fujiwara, Kohei Matsuno, Satoshi Kimura
R8-P-01	Road infrastructure development in the Arctic, security of supply and local voices: Kuttura-Repojoki road as a case study	*Juha Saunavaara
R8-P-02	Lessons from the Arctic : Non-state actors in Russia- Norway and Russia-Japan fisheries cooperation after 2022	*Marina Lomaeva
R10-P-01	A Peristaltic Robot for the Autonomous Drilling of Sea Ice	*Hiroshi Yoshida, Yuka Takeda, Satoshi Ogaki, Yugo Aoki, Ryunosuke Sawahashi, Fumio Ito, Taro Nakamura
R10-P-02	Move to Core time 1 (Comparison of Ship Resistance in Brash Ice Channel between Numerical Simulation and Ice Tank Tests)	*Keisuke Anzai, Shigeya Mizuno, Yutaka Yamauchi
R10-P-03	Route selection simulations on the global intermodal transport network considering Arctic shipping	*YUKI INOUE, Ryuichi Shibasaki, Koki Kawachi, Chathumi Ayanthi Kavirathna
S2-P-01	Year-round air - sea ice CO ₂ flux during MOSAiC expedition in the Central Arctic Ocean	*Daiki Nomura
S2-P-02	Impacts of sea-ice age on carbonate chemical dynamics in the Central Arctic Ocean	*Masaki Yoshimura, Daiki Nomura, Jessie Creamean, Lena Eggers, Laura Heitmann, Adam Ulfsbo, Clara J. M. Hoppe, Jessie Gardner, Emelia Chamberlain, Elise S Droste, Allison Fong, Agneta Fransson, Melissa Chierici, Mario Hoppema, Dorothee Bakker, Jun Inoue0, Bruno Delille
S2-P-03	Zooplankton grazing increases atmospheric primary aerosol production in the high Arctic	*Manuel Dall'Osto, Katrin Schmidt, Robert Campbell, Daiki Nomura, Jongkwan Park, Young Jun Yoon, Jiyeon Park
S2-P-04	Stable in an unstable environment - Marine Microbial Communities in the Central Arctic Ocean	*Jannis Hümmling, Ellen Oldenburg,, Ovidiu Popa, Oliver Ebenhöf, Thomas Mock, Allison A. Fong, Clara J. M. Hoppe, Kirstin Schulz, Katja Metties,
S2-P-05	RGB-Assisted Orthoimage Mosaicking of Thermal Infrared Sea Ice Imagery from Low-Cost UAVs	*Shuhang Zhang, Ziyun Qi, Yufang Ye, Lian He, Xiao Cheng,
S2-P-06	Dependency of the drag coefficient on boundary layer stability beneath drifting sea ice in the Central Arctic Ocean	*Yusuke Kawaguchi, Mario Hoppmann , Kunio Shirasawa , Ivan Kuznetsov , Rabe Benjamin
S2-P-07	Preliminary Results of Under-Ice Turbulent Heat Flux Observations during CONTRAST expedition	*Eun Yae Son, Yusuke Kawaguchi,
S2-P-08	Observations of snow accumulation and melt on sea ice ridges	*Evgenii Salganik, Thomas Krumpen, Melinda Anne Webster, Mats Anders Granskog, Marcel Nicolaus
S2-P-09	Decadal observations of the coupled Arctic system with Tara Polar Station	*Marcel Nicolaus, Mathieu Ardyna, Lee Karp-Boss, Chris Bowler, Marcel Babin, Clémentine Moulin, Thomas Linkowski, Romain Troublé
S3-P-01	Observations across the western Eurasian basin – establishing a long-term monitoring effort in the central Arctic Ocean to support management	Paul A. Dodd, *Mats Anders Granskog, Arild Sundfjord
S5-S6-P-01	SEAL: Sea Ice Forecasting using Active Learning	*Maria Carolina Novitasari, Nilo Pedrazzini, Isabel Fenton, Jeremy Wilkinson, J. Scott Hosking, Louisa van Zeeland
S5-S6-P-02	A Comparative Analysis of Deep Learning Models for Arctic Sea Ice Drift Retrieval from MODIS Imagery under Thin-Cloud Conditions	*Cen Liu, Xue Wang,
S5-S6-P-03	Development of an Integrated Automated Onboard Sea Ice Observation System Using Mirai II	*Kazutaka Tateyama, Hayate Kato, Midori Nagao, Minoru Hasegawa
S5-S6-P-04	Cancel (Sea ice decline in the Eastern Arctic results in expansion of the freshened surface layer)	*Vladimir Rogozhin, Alexander Osadchiev , Alexander Savin, Ekaterina Rogozhina , Anton Georgiev, Olga Kononova
S5-S6-P-05	Upward Heat Transport by Atlantic Water in the Arctic Ocean Simulated with a High-Resolution Ice-Ocean Model and Particle Tracking	*Takao Kawasaki, Yoshiki Komuro, Jun Ono
S5-S6-P-06	Sea Ice Features and the Local Atmospheric Response on the Scale of $O(1-10)$ km Resolved in NICOCO	*Ryusuke Masunaga, Yoshiki Komuro, Takao Kawasaki, Jun Ono
S5-S6-P-07	Drivers of the sustained Antarctic sea-ice reduction (2016–2023): Results from numerical experiments of a sea ice-ocean model	*Kazuya Kusahara, Hiroaki Tatebe
S5-S6-P-08	Classroom Lessons Using Sea Ice Data from Arctic Data Archive System (ADS) for High School Students in Japan	*Yoshihiro Niwa, Akiko Mohri, Hironori Yabuki
S5-S6-P-09	Arctic and Antarctic for Education: Development and Deployment of a Polar Education and Outreach Website	*Takeshi Sugimura, Yoshihiro Niwa, Hironori Yabuki
S17-P-01	Cancel (Taiwan's Arctic Policy: Drivers, Interests, and Challenges)	*Aileen Aseron Espiritu

October 30, 17:15 – 18:45

Hall C/D

Breakout Session

S4:Arctic Observing Network and international collaboration – perspectives from Asia, Europe and North America

Chairs: Jeremy Wilkinson

Presentation Code	Time	Title	Author(s)
S4-O-07	17:15 - 17:30	Challenges of Utilising Arctic Observations	*Malik Naumann, Øystein Godøy, Janine Felden
S4-O-08	17:30 - 17:45	Collaborating towards a better coordinated and integrated, more useful and more equitable Arctic Observing System – moving towards the IPY – an Arctic PASSION contribution	*Michael Karcher, Arild Sundfjord, Jeremy Wilkinson
S4-O-09	17:45 - 18:00	Planning for the Arctic Ocean Regional Alliance (ArORA)	*Craig Michael Lee, Anna Nikolopoulos, David Allen, Maia Hoeberechts, Michael Karcher, Molly McCammon, Maribeth Murray, Jeremy Wilkinson, Eun-Jin Yang
S4-O-10	18:00 - 18:15	Planning for the 5th International Polar Year	*Gerlis Fugmann
	18:15 - 18:45	Panel/audience discussion	

October 30, 17:15 – 18:45

Room 1

Breakout Session

S15:Advancing Arctic Urban Sustainability through Diversity and Inclusion

Chair: Aileen Aseron Espiritu

Presentation Code	Time	Title	Author(s)
	17:15 - 17:20	Introduction	
S15-O-01	17:20 - 17:35	COLD CITY FUTURES: Hybrid Governance and Urban Sustainability in Cold and Arctic Cities	*Aileen Aseron Espiritu
S15-O-02	17:35 - 17:50	A Green Transition and Justice in the Arctic	*Gregory A Poelzer
S15-O-03	17:50 - 18:05	Tourism industry, sustainable community development and inclusion: Inari as a case study	*Juha Saunavaara, Takafumi Fukuyama
S15-O-04	18:05 - 18:20	Foreign Labour and Sustainable Practices in Iceland's Whale Watching Industry	*Kristin Ingvarsdóttir
S15-O-05	18:20 - 18:35	Navigating New Dynamics in Bottom-Up Governance Across the Arctic: Challenges in Non-State Actors' Engagement	*Kamrul Hossain
	18:35 - 18:45	General discussion	

October 30, 17:15 – 18:00

Room 2

Breakout Session

R9:Language, Culture, and Environment

Chair: Toshiaki Inoue

Presentation Code	Time	Title	Author(s)
R9-O-01	17:15 - 17:30	Historical Shifts in Inuit Art and Society in Arctic Canada: Analyzing the Role of Art in Societal Transformation	*Nobuhiro Kishigami
R9-O-02	17:30 - 17:45	The McKennan Collection at the National Museum of Ethnology, Japan.	*Toshiaki Inoue
R9-O-03	17:45 - 18:00	The Concept of Population in Genomic Research: Insights from Indigenous Biobanks in the Arctic	*Kaori Ishii

October 30, 18:45 – 20:15

Room 5

Side meeting

Side meeting

Chair : Shigeto Nishino

Synoptic Arctic Survey (SAS) Side Meeting

October 30, 18:45 – 20:15

Room 3

Side meeting

Side meeting

Chair : Moe Terao

Joint Meeting with CNEAS and MIASU



The Eighth International Symposium of Arctic Research (ISAR-8)

**Program
Day 4**

**October 31, 2025
Tokyo Tama-Mirai-Messe**

October 31, 9:30 – 10:15

Hall C/D



Plenary Session

Keynote Speech 4

Chair: Ayumi Kotani

Speaker: Yoshihiro Iijima, Professor, Tokyo Metropolitan University

Presentation Title : Echoes of a thawing land: Long-term thermokarst response to hydrothermal regimes and anthropogenic stressors in northern Eurasia

October 31, 10:30 – 12:00

Hall C/D

Breakout Session

R3: Rivers, lakes, permafrost, and snow cover

Chair: Kazuyoshi Suzuki

Presentation Code	Time	Title	Author(s)
R3-O-01	10:30 - 10:43	Eight-year variation in surface temperature and channel width of continental rivers in the Arctic derived using GCOM-C/SGLI	*Masahiro Hori
R3-O-02	10:43 - 10:56	Separation of source water in the sub-Arctic river discharge using end-member mixing analysis	*Tetsuya Hiyama, Asaka Homma, Liudmila S. Lebedeva, Hotaek Park
R3-O-03	10:56 - 11:09	Relict frost fissures in the Quaternary sediments of the lower Vilyuy River (Central Yakutia, Russia)	*Eseniia Shchipanova, Vasylii Lytkin, Julustan Sivtsev, Grigory Shaposhnikov, Michael Sheetov
R3-O-04	11:09 - 11:22	Remote sensing data on the dynamics and distribution of icings in Southern Yakutia	*Elizaveta Nikolaeva, Leonid Gagarin
R3-O-05	11:22 - 11:35	Degradation, Aggradation, and Stabilization Signs of Post-Wildfire Permafrost in North Yukon Detected by InSAR	*Zetao CAO, Masato Furuya,
R3-O-06	11:35 - 11:48	Long-term Spatiotemporal Changes of Permafrost Thaw Subsidence: Over a Decade of InSAR Time Series Analysis Using ALOS Series Data	*Kazuki Yanagiya, Masato Furuya, Go Iwahana, Takeo Tadono
	11:48 - 12:00	Poster Flash Talks	
Will resume at 13:30.			

October 31, 10:30 – 11:55

Room 1

Breakout Session

R1: Atmosphere

Chairs: Masakazu Yoshimori, Takuro Aizawa, Yoshiki Fukutomi, Fumikazu Taketani

Presentation Code	Time	Title	Author(s)
R1-O-01	10:30 - 10:50	Acidity-driven gas-particle partitioning of nitrate regulates its transport to Arctic through the industrial era	Yoshinori Iizuka, Mai Matsumoto, Kaoru Kawakami, Mahiro Sasage, *Sakiko Ishino, Shohei Hattori, Ryu Uemura, Hitoshi Matsui, Koji Fujita, Naga Oshima, Andorea Spolaor, Anders Svensson, Bo Møllehave Vinther, Hiroshi Ohno, Osamu Seki, Sumito Matoba
R1-O-02	10:50 - 11:03	Simulations of CO ₂ , CH ₄ , N ₂ O and O ₂ /N ₂ using MIROC4-ACTM at high resolution (T106) for analysis of polar observations	*Prabir K. Patra, Daisuke Goto, Naveen Chandra, Taku Umezawa, Shinji Morimoto
R1-O-03	11:03 - 11:16	Validation of a new high-resolution CH ₄ emission dataset for Russian wetlands	*Aleksandr Nogovitsyn, Motoki Sasakawa, Irina Terentieva, Shamil Maksyutov, Toshinobu Machida, Takuto Taguchi, Qianning Qin
R1-O-04	11:16 - 11:29	Continental river runoff over the Arctic Ocean enhances atmospheric aerosol formation	James Brean, Cedric Fichot, David Beddows, Douglas Worsnop, Zongbo Shi, Roy Harrison, Eija Asmi, *Manuel Dall'Osto
R1-O-05	11:29 - 11:42	Long-term observations of black carbon and carbon monoxide in the Poker Flat Research Range, central Alaska, with a focus on forest wildfire emissions	*Takeshi Kinase, Fumikazu Taketani, Masayuki Takigawa, Chunmao Zhu, Yongwon Kim, Petr Mordovskoi, Yugo Kanaya
R1-O-06	11:42 - 11:55	Temporal changes in concentrations, size distribution, and seasonality of black carbon particles in Northeastern Greenland since the Industrial Revolution	*Kumiko Goto-Azuma, Kaori Fukuda, Jun Ogata, Fumio Nakazawa, Naga Oshima, Hitoshi Matsui, Yuki Komuro, Motohiro Hirabayashi, Ikumi Oyabu, Kyotaro Kitamura, Shuji Fujita, Nobuhiro Moteki, Tatsuhiro Mori, Sho Ohata, Yutaka Kondo, Makoto Koike, Ayaka Yonekura, Naoyuki Kurita, Sune o. Rasmussen, Dorte Dahl-Jensen
Will resume at 13:30.			

October 31, 10:30 – 11:45

Room 2

Breakout Session

R6:Marine ecosystems

Chairs: Yuri Fukai, Irene D. Alabia

Presentation Code	Time	Title	Author(s)
R6-O-01	10:30 - 10:45	Relative importance of nanoflagellate grazing and viral lysis for bacterial and <i>Synechococcus</i> spp. mortality in high-latitude fjord (Adventfjorden, Svalbard) on summer	*Madeline Olivia, Ruei-Feng Shiu,, Patrichka Wei-Yi Chen, Chia-Mei Chang, Clara Natalie Annabel, Chuen-Fa Ni, Hwa Chien, Slawomir Jack Giletycz, An-Yi Tsai,
R6-O-02	10:45 - 11:00	Autumn Phytoplankton Communities in the Pacific Arctic Ocean: Effects of Delayed Sea Ice Retreat	*Dai Sumiyoshi, Amane Fujiwara, Manami Tozawa, Kohei Matsuno
R6-O-03	11:00 - 11:15	A pan-Arctic comparison of phytoplankton bloom phenology	*Hisatomo Waga, Eiji Watanabe
R6-O-04	11:15 - 11:30	Drivers of Arctic Phytoplankton and Transparent Exopolymer Particle Dynamics Using Ocean Biogeochemistry Modeling and Generalized Additive Models	*Moritz Zeising, Ehsan Mehdipour, Astrid Bracher,
R6-O-06	11:30 - 11:45	Interannual changes in settling particle flux and the impact of ocean circulation in the southwestern Canada Basin, Arctic Ocean, for 2010-2023	*Jonaotaro Onodera, Motoyo Itoh, Mariko Hatta, Eiji Watanabe, Kohei Mizobata, Yuichiro Tanaka, Takuhei Shiozaki, Naomi Harada, Takashi Kikuchi
Will rsume at 13:30.			

October 31, 10:30 – 12:00

Room 5

Breakout Session

S17:Asian-Arctic collaboration for research and education

Chair:Takafumi Hirata

Presentation Code	Time	Title	Author(s)
S17-O-01	10:30 - 10:45	Arctic Research Center's Initiative: Asia-Arctic Network for Research and Education	*Yuji Kodama, Shotaro Uto
S17-O-02	10:45 - 11:00	The Global Arctic: Asian Contributions to Science, Education and Policy	*Volker Rachold
S17-O-03	11:00 - 11:15	Transdisciplinary study on the mechanisms and environmental impacts driven by accelerating warming in the Arctic area	*Chuen-Fa Ni, Hwa Chien, Slawomir Jack Giletycz, Whyjay Zheng, Kao-Shen Chung, Pei-Chuan Chuang , Benny Kwok Kan Chan,
S17-O-04	11:15 - 11:30	Extreme weather over East Asia linked to the amplified Arctic warming	*Seong-Joong Kim, Hyesun Choi, Baek-Min Kim, Jeong-Hoon Kim, Jeehoon Jeong, Hyoung Chul Shin
S17-O-05	11:30 - 11:45	Capacity Building and Educational Programs in ArCS III for Future Arctic Research	*Shin Sugiyama
S17-O-06	11:45 - 12:00	From the Margins to the Map: Taiwan's Emerging Role in Asian-Arctic Research and Public Engagement	*Hwa Chien, Chuen-Fa Ni, Slawomir Jack Giletycz

October 31, 12:00 – 13:30

Lunch Break

October 31, 12:00 – 13:30

Room 3

Side meeting (closed)

International Advisory Committee Meeting

October 31, 13:30 – 15:00

Hall C/D

Breakout Session

R3:Rivers, lakes, permafrost, and snow cover

Chairs: Kazuki Yanagiya

Presentation Code	Time	Title	Author(s)
R3-O-07	13:30 - 13:43	Local projections of the thermal state of permafrost based on climate models ensemble data, Sakha (Yakutia) Republic, Northern Eurasia	*Nikita Tananaev, Pavel Kotov
R3-O-08	13:43 - 13:56	Hydrological and Permafrost Modeling in Mountainous Permafrost Landscapes of North-Eastern Russia Using New Borehole Data	*Oksana Zhunusova, Olga Makarieva, Nataliia Nesterova
R3-O-09	13:56 - 14:09	Toward high-spatial-resolution snow depth mapping using ALOS-2/-4 and AMSR2/3	*Takahiro Abe, Yoshihiro Iijima, Go Iwahana, Kazuyoshi Suzuki
R3-O-10	14:09 - 14:22	Integrated Study of Arctic Regional Reanalysis and Snow Surface–Airflow Interactions	*Kazuyoshi Suzuki, Milija Zupanski, Tkashi Dan, Steven Fassnacht, Hotaek Park, Hideki Kobayashi, Tetsuya Hiyama, Jessica Sanow, Masaki Nemoto
R3-O-11	14:22 - 14:35	Characteristics of diamond dust observed in Fairbanks, Alaska in the early winter of 2024	*Satoko Oki, Konosuke Sugiura, Masahiro Hori, Go Iwahana, Hiroki Iwata, Masahiro Ueyama
	14:35 - 15:00	Poster Flash Talks	

October 31, 13:30 – 14:55

Room 1

Breakout Session

R1:Atmosphere

Chairs: Masakazu Yoshimori, Takuro Aizawa, Yoshiki Fukutomi, Fumikazu Taketani

Presentation Code	Time	Title	Author(s)
R1-O-07	13:30 - 13:43	How Arctic Oscillation Organizes North Atlantic Storms to Drive Ural Blocking and the Warm Arctic-Cold Eurasia Pattern	*Hoyoung Ku, Hayeon Noh, Muyin Wang, James Overland, Seong-Joong Kim, Baek-Min Kim
R1-O-08	13:43 - 13:56	Regional contrast in temperature extremes associated with the Ural anticyclonic height anomaly under the progression of global warming	*Masatake E Hori, Masakazu Yoshimori, Jinro Ukita,
R1-O-09	13:56 - 14:09	Storm-Driven Vertical Structures of Arctic Warming: A Reanalysis and Multi-Model Perspective	*Ha-Rim Irene Kim, Ho-Young Ku, Baek-Min Kim
R1-O-10	14:09 - 14:22	Linking Radiative Advective Equilibrium Regime Transition to Arctic Amplification	*Yu-Chiao Liang, Osamu Miyawaki, Tiffany Shaw, Ivan Mitevski, Lorenzo Polvani, Yen-Ting Hwang
R1-O-11	14:22 - 14:35	Characterisation of the solar partitioning by snow and sea ice in Saroma-ko lagoon (Hokkaido, Japan)	*Gaëlle Veyssi�re, Jeremy Wilkinson, Michael Thorne, Tomonori Tanikawa, Takenobu Toyota, Takahiro Toyoda, Daiki Nomura
R1-O-12	14:35 - 14:55	Recent changes of radiation fluxes in the Polar Regions	*Atsumu Ohmura

October 31, 13:30 – 15:00

Room 2

Breakout Session

R6:Marine ecosystems

Chairs: Takafumi Hirata, Kohei Matsuno

Presentation Code	Time	Title	Author(s)
R6-O-07	13:30 - 13:45	Western Arctic Ocean environments and biological communities since the Medieval Climate Anomaly	*Masanobu Yamamoto, Masafumi Murayama, Kenta Suzuki, Laura Gemery, Satoshi Nagai, Minoru Kobayashi, Masanori Arai, Harumitsu Takashima, Fumi Mikome, Shoma Uchida, Loic David
R6-O-08	13:45 - 14:00	Distribution patterns of Arctic jellyfish in the western Arctic Ocean during summer: acoustic and net sampling approaches	*Wuju Son, Gerlien Verhaegen, Jee-Hoon Kim, Kyoung-Ho Cho, Eun Jin Yang, Hyoung Sul La,
R6-O-09	14:00 - 14:15	Metazoan Diversity and Its Drivers: An eDNA Survey in the Pacific Gateway of a Changing Arctic Ocean	*Gerlien Verhaegen,, Tatsuya Kawakami, Ayla Murray, Akihide Kasai, Charlotte Havermans,
R6-O-10	14:15 - 14:30	Inter-decadal fish community changes in the Eastern Bering Sea are shaped by environmental and biotic filters	*Irene D. Alabia, Jorge Garc�a Molinos, Takafumi Hirata, Hiromichi Ueno, Sei-Ichi Saitoh
R6-O-11	14:30 - 14:45	Spying on Little Auks' daily routine with microphones and a camera in Siorapaluk, NW Greenland	*Evgeny A. Podolskiy, Jean-Baptiste Thiebot, Monica Ogawa, Laura Parker, Masashi Niwano , Ryu Kusaka, Asuka Yushima, Kasper L. Johansen, Anders Mosbech, Shin Sugiyama,
R6-O-12	14:45 - 15:00	Drone-based observations of narwhals with Inuit in Inglefield Bredning, northwest Greenland (Kalaalit Nunaat)	*Monica Ogawa, Evgeny Podolskiy

October 31, 13:30 – 15:00

Room 5

Breakout Session

S18:Asian geopolitics in the Arctic. Motives, cooperation and conflict

Chair: Timo Mohr

Presentation Code	Time	Title	Author(s)
	13:30 - 13:40	Introduction	
S18-O-01	13:40 - 14:00	Arctic Identity of Japan: Reflections in Parliamentary and Public Debates in the National Diet	*Fujio Ohnishi, Artem Suslov
S18-O-02	14:00 - 14:20	What do the Arctic strategies of the Republic of Korea and Japan convey?	*Alma Karabeg,
S18-O-03	14:20 - 14:40	Between normative thoughts and realpolitik: Energy cooperation between Russia and Japan 2000-2025	*Timo Mohr
S18-O-04		Cancel (Vietnam and Russia's Energy Sector Cooperation – an Unexpected Prospect for Extraction Projects in the Russian Arctic Region)	*Hang-Thi Thuy Nguyen
S18-O-05		Cancel (India in the Arctic Region – Between Geopolitical Aspirations and Concrete Transregional Cooperation)	*Detlef Werner Briesen
	14:40 - 15:00	General discussion	

October 31, 15:15–16:15

HALL C/D

Plenary

Closing Ceremony

List of Sessions

Regular Sessions

(R1) Atmosphere

Main convener: *Masakazu Yoshimori*;

Co-conveners: *F. Taketani, Y. Fukutomi, T. Aizawa*

(R2) Ocean and Sea Ice

Main convener: *Satoshi Kimura*;

Co-conveners: *T. Kodaira, E. Son*

(R3) Rivers, Lakes, Permafrost, and Snow Cover

Main convener: *Kazuyoshi Suzuki*;

Co-convener: *K. Yanagiya*

(R4) Ice Sheets, Glaciers, and Ice Cores

Main convener: *Yukihiko Onuma*;

Co-conveners: *N. Nagatsuka, M. Nishimura*

(R5) Terrestrial Ecosystems

Main convener: *Tomoaki Morishita*;

Co-convener: *H. Nagano*

(R 6) Marine Ecosystems

Main convener: *Kohei Matsuno*;

Co-conveners: *T. Hirata, I. Alabia, Y. Fukai*

(R 7) Geospace

Main convener: *Takanori Nishiyama*;

Co-conveners: *T. Tsuda, S. Kurita*

(R 8) Laws, Politics, and Economy

Main convener: *Juha Saunavaara*;

Co-convener: *K. Hossain*

(R 9) Language, Culture, and Environment

Main convener: *Nobuhiro Kishigami*;

Co-convener: *T. Inoue*

(R 10) Engineering for Sustainable Development

Main convener: *Takuji Waseda*;

Co-convener: *A. Konno*

Special Sessions

(S2) MOSAiC and Beyond: Cross-Cutting Results and Future Plans for Icebreaker-Based Arctic Research

Main convener: *Yusuke Kawaguchi*; Co-conveners: *M. Granskog, D. Nomura, J. Inoue*

(S3) Toward the second Synoptic Arctic Survey in 2030 – a springboard for the 5th International Polar Year 2032–33

Main convener: *Sigeto Nishino*; Co-conveners: *C. Ashjian, K. Azetsu-Scott, K. Cho, J. Grebmeier, M. Hattala, J. He, S. Kang, A. Olsen, Ø. Paasche, W. Williams, E. Yang*

(S4) Arctic Observing Network and international collaboration – perspectives from Asia, Europe and North America

Main convener: *Jeremy Wilkinson*; Co-conveners: *M. Karcher, A. Sundford, T. Sueyoshi, T. Kikuchi, M. Murray, C. Lee*

Joint Session (S5)(S6)

(S5) Approaches to Sea Ice and Climate Predictions, Process Studies for Advancing Understanding and Forecasting, and Their Utilization for Stakeholders

Main-convener: *Jun Ono*; Co-convener: *Y. Niwa*

(S6) Sea ice research and machine learning: Opportunities to fill knowledge gaps

Main convener: *Gaelle Veyssiere*; Co-conveners: *L. van Zeeland, J. Wilkinson*

(S8) Indigenous ontologies and ecological knowledge: perspectives from Sakha Sire

Main-convener: *Stanislav Ksenofontov*

(S10) Myth, Memory, and Mobilization: Interdisciplinary Insights into Indigenous Experiences of War

Main convener: *Hiroki Takakura*; Co-convener: *D. Brandišauskas*

Joint Session (S11)(S12)

(S11) Indigenous Food Security, Sovereignty, and Lifeways in the Northern Communities

Main-convenor: *Yoko Kugo*

(S12) Food Sovereignty and Food Security in the Arctic

Main convenor: *Jun Akamine*; Co-convenor: *D. Anderson*

(S13) Designing Quality of Life in Arctic Communities Amid Global Transformations in Environmental, Political, and Economic Processes

Main-convenor: *Naotaka Hayashi*

(S15) Advancing Arctic Urban Sustainability through Diversity and Inclusion

Main-convenor: *Aileen Aseron Espiritu*

(S17) Asian-Arctic collaboration for research and education

Main convenor: *Takafumi Hirata*; Co-convenors: *F. Ohnishi, S. Uto, Y. Kodama*

(S18) Asian geopolitics in the Arctic. Motives, cooperation and conflict

Main convenor: *Timo Mohr*; Co-convenor: *F. Ohnishi*

List of Exhibitors

The booth exhibition will be located on the Hall A/B , and some of the information is also available on the ISAR-8 online exhibition site. Enjoy the exhibition!

Booth 1

	EKO Instruments CO., LTD. Contact: Takasi Uchibori, e-mail: uchibori@eko.co.jp URL: https://eko.co.jp/
Instruments for studying ice and snow Exhibiting pyranometers, spectroradiometers, and others	

Booth 2

	Cubic-i Ltd. (CLS JAPAN) Contact: Shiho Morimoto, e-mail: info@cubic-i.co.jp https://www.cubic-i.co.jp/
Satellite Communication Services for In-situ Data Collection This booth will introduce Argos and Iridium satellite communication services and devices. Our solutions allow you to collect in-situ data from remote sites, such as Automatic Weather Stations in the Arctic area or buoys in the ocean, with small and low power autonomous devices, at an affordable airtime fee.	

Booth 3

	Campbell Scientific Japan, K.K Contact: Yuki Sakamoto, e-mail: Yuki.sakamoto@campbellsci.com https://www.campbellsci.co.jp/
Rugged Monitoring Measurement and control instrumentation for any application This booth is exhibited dataloggers and some sensors for Rugged Monitoring Measurement	

Booth 4

	Arctic Challenge for Sustainability III (ArCS III) Contact: Akiko Mori, e-mail: mori.akiko@nipr.ac.jp https://www.arcs3.nipr.ac.jp/
Japan's national flagship Arctic research project This booth exhibition introduces the research programs and infrastructures of ArCS III.	

Booth 5

	Japan Agency for Marine-Earth Science and Technology (JAMSTEC) Contact: Yuko Mori, e-mail: moriy@jamstec.go.jp https://www.jamstec.go.jp/parv/e/
Introduction of the New Arctic Research Vessel, Mirai II We will present the latest updates on the research icebreaker Mirai II, which is currently under construction and is scheduled for delivery in November 2026. Our booth exhibition will focus on the current status of its construction, featuring a series of informative videos and panel presentations.	

Booth 6

	Mitsui O.S.K. Lines, Ltd. Contact: Teruyuki Okano, Emi Watanabe, e-mail: teruyuki.okano@molgroup.com / emi.watanabe@molgroup.com https://www.mol.co.jp/
Mitsui O.S.K. Lines, Ltd. (MOL) MOL group (MOL and MOL Ship Management Co., Ltd. and MOL Maritex Co., Ltd., both wholly owned MOL subsidiaries) have been selected as a pre-commissioning crew dispatcher and expected operator for the Arctic research vessel ordered by the Japan Agency for Marine-Earth Science and Technology in Japan. The vessel will be Japan's first ice-breaking Arctic research vessel and serve as an international research platform with world-class observation functions. The objectives are to contribute to the sustainable development, utilization, and conservation of the Arctic region by conducting comprehensive observations of the region's atmosphere, meteorology, oceans, and sea ice and enhancing the collection of observational data and scientific knowledge, and to foster the development of researchers, engineers, and other highly skilled personnel. This is the first time for MOL to operate an icebreaking research vessel, but preparations are being made to ensure safe research activities through crew training and other measures. We look forward to communicating with you about the demands of operating a ship and the training required!	

Booth 7

	Arctic and Antarctic Data archive System (ADS) , NIPR Contact: Hironori Yabuki, e-mail: ads-support@nipr.ac.jp https://asic.nipr.ac.jp/e/
Arctic Sea Ice Information Center The Arctic Sea Ice Information Center issues mid-range forecasts in early spring, predicting the autumn minimum sea ice extent. It also conducts year-round short-term forecasts for the entire Arctic, offering projections up to 10 days ahead. The exhibition will showcase the center's work, including these forecasting initiatives.	

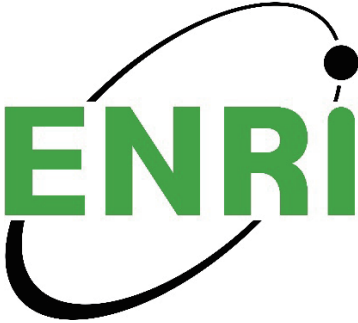
Booth 8

 Field Pro 株式会社フィールドプロ	Fieldpro, Inc. Contact: Naho Machida, e-mail: machida@fieldpro.jp https://fieldpro.jp/
Meteorological Observation Instruments We will exhibit meteorological sensors, including anemometers and temperature sensors, as well as data loggers. We are a system integrator specializing in weather observation systems.	

Booth 9

 株式会社プリード	Prede Co., Ltd. Contact: Tatsuya Seguchi, e-mail: tseguchi@prede.com https://www.prede.com/
PREDE Skyradiometer, HISSGraS and Met. Intstruments Prede Co., Ltd. is a manufacturer of the meteorological instruments, for the climatic variation.	

Booth 10

	Electronic Navigation Research Institute (ENRI), National Institute of Maritime, Port and Aviation Technology (MPAT) Contact: Toru Takahashi, e-mail: toru.takahashi@mpat.go.jp https://www.enri.go.jp/en/index.html
Electronic Navigation Research Institute We will introduce the DFMC SBAS broadcast from QZSS and its utilization in the polar region as well as its future vision. We also plan to present the upcoming international conference IWAC 2026, which is being organized by ENRI and JSASS.	

History of International Symposium on the Arctic Research

ISAR-1

Drastic change under the global warming
November 4 - 6, 2008
Miraikan, Tokyo

ISAR-2

Arctic system in a changing earth
December 6 - 9, 2010
Hitotsubashi Memorial Hall, Tokyo
<https://www.jcar.org/isar-2/>

ISAR-3

Detecting the change in the Arctic system and
searching the global influence
January 14-17, 2013
Miraikan, Tokyo
<https://www.jcar.org/isar-3/>

ISAR-4

Rapid change of the Arctic climate system and
its global influence
April 27-30, 2015
Toyama International Center, Toyama
ISAR-4 was held within the framework of the
Arctic Science Summit Week (ASSW) 2015 and
combined with the ICARP III Symposium.
<https://www.assw2015.org/>

ISAR-5

The changing Arctic and its regional to global
impact: From information to knowledge and
action
January 15-18, 2018
Hitotsubashi Hall, Tokyo
<https://www.jcar.org/isar-5/>

ISAR-6

Arctic research: the decade past and the decade
future
March 18- April 30, 2020
Online meeting
<https://www.jcar.org/isar-6/>

ISAR-7

Transdisciplinary studies on a rapidly changing
Arctic toward a sustainable society
March 6-10, 2023
National Institute of Polar Research,
Tachikawa, Tokyo
<https://www.jcar.org/isar-7/>



The Eighth International Symposium on Arctic Research (ISAR-8)

Venue : Tokyo Tama-Mirai-Messe
Tokyo Metropolitan Tama Business Activation Center
3-19-2, Myojincho, Hachioji-city, Tokyo 192-0046, Japan