

The 25th International Symposium on Polar Sciences

May 13-15, 2019 Korea Polar Research Institute Incheon, Republic of Korea

Third Circular

The 25th International Symposium on Polar Sciences organized by Korea Polar Research Institute (KOPRI) will be held on May 13-15, 2019 in Incheon, Republic of Korea This Symposium aims to bring polar scientists together to discuss their research findings and to promote international collaborative research.

A detailed program and other practical information are attached. We are sincerely looking forward to meeting all of you in Incheon.

THEME AND SESSIONS

Korea's first icebreaking research vessel, *Araon*, was launched in 2009 and made her official maiden voyage to the Antarctica in 2010. Since then she became one of the world's busiest icebreaker, spending 294 days in the Arctic and Antarctic Oceans. With *Araon*, KOPRI has devoted its passion and commitment to unveil the mysteries of Polar regions.

In commemoration of the scientific dedication over the years and celebrating the 10th anniversary of *Araon*, the theme of the 25th International Symposium on Polar Sciences will be "*Araon*'s Journey through the Decade: Findings in Ocean, Earth and Paleoclimate science".

The following six sessions are proposed.

- Response of the Southern Ocean to the Changing Climate
- Changing Arctic Ocean: Understanding the impacts of climate changes and their global consequences
- Geological and Geophysical (& Biological) processes in Circum-Antarctic Ridges
- Rapid changes in Arctic sub-seabed
- Late Quaternary Ocean-Cryosphere interactions in the Antarctic Ocean
- Past analogue for future Arctic: Glacial and oceanographic perspective

PLENARY LECTURER

Dr. Henry Dick	Prof. Leonid Polyak
(Woods Hole Oceanographic Institution)	(Ohio State University)

SPECIAL LECTURER

Prof. Paul G. Falkowski	Prof. Jürgen Mienert
(Rutgers, The State Univ. of New Jersey)	(UiT, The Arctic Univ. of Norway)

INVITED LECTURER

Dr. Yong Ahn Park (UN Commission on the Limits of the Continental Shelf)

SIDE MEETINGS

Southern Ocean Observing System (SOOS) Meetings

- Amundsen and Bellingshausen Sector Working Group: May 8-10
- Executive Committee: May 13
- Data Hack: May 15
- Science Steering Committee: May 16-18
- Data Management Sub-Committee: May 16-18

Arctic Warming and East Asia Weather Linkage Workshop

• 09:00-18:00, May 13 at Sejong International Conference Room (2nd floor, Cafeteria building of KOPRI) Arctic Warming and East Asia Weather Linkage Workshop will be held to share and discuss the hot issue on the Arctic Warming and its connection to East Asia weather.

Early Career Polar Scientist Gathering

• 12:00-13:00 at Polar Bear Seminar Room (3rd floor, Main building of KOPRI)

SOCIAL EVENTS

Icebreaker Reception

• 18:30-20:00, May 13 at Lily, Orakai Songdo Park Hotel

Banquet

• 18:00-19:30, May 15 at Main Hall (1st floor, Mail building of KOPRI) Young Scientist Awards will be presented to the outstanding poster presentations and the award ceremony will take place as a part of the banquet.

PROGRAM AT A GLANCE

May 13 (Monday)			
Time Place		Program	
18:30-20:00	Lily, Orakai Hotel	Icebreaker Reception	

May 14 (Tues	May 14 (Tuesday)			
Time	Place	Program		
08:30-09:00	Reception Desk	Registration		
09:00-09:30	Auditorium	Opening Ceremony		
09:30-12:00	Auditorium	 Plenary Lecture 1 S1. Geological and Geophysical (& Biological) processes in Circum-Antarctic Ridges 		
12:00-13:00	Main Hall & Polar Bear Seminar Room	 Lunch Early Career Scientist Gathering		
13:00-15:30	Auditorium	 Special Lecture 1 S2. Changing Arctic Ocean: Understanding the impacts of climate changes and their global consequences 1 		
15:30-16:00	Atrium	Atrium • Coffee Break and Poster Session		
16:00-18:00	Auditorium & Sejong International Conference Room	 S3. Response of the Southern Ocean to the Changing Climate S4. Past analogue for future Arctic Glacial and oceanographic perspective 1 		

May 15 (Wed	May 15 (Wednesday)			
Time	Place	Program		
08:30-09:00	Reception Desk	Registration		
09:00-11:30	Auditorium & Sejong International Conference Room	 Plenary Lecture 2 S5. Past analogue for future Arctic Glacial and oceanographic perspective 2 S6. Changing Arctic Ocean: Understanding the impacts of climate changes and their global consequences 2 		
11:30-12:00	Auditorium	Invited Lecture		
12:00-13:00	Main Hall	• Lunch		
13:00-15:30	Auditorium	Special Lecture 2S7. Rapid change in Arctic sub-seabed		
15:30-16:00	Atrium	Coffee Break and Poster Session		
16:00-18:00	Auditorium	• S8. Late Quaternary Ocean-Cryosphere interaction in the Antarctic Ocean		
18:00-19:30	Main Hall	Banquet and Young Scientists Award Ceremony		

DETAILED PROGRAM

Registration Reception Desk 08:30-09:00 Registration Opening Feedback 09:00-09:20 Welcome Remarks 09:00-09:30 Group Photo Session Plenary Feedback 09:00-09:30 Group Photo Session Plenary Feedback View 1 - Auditorium 09:30-10:00 Ceological and Geophysical (& Biological) processes in Circum-Antarctic TED Session 1 Geological and Geophysical (& Biological) processes in Circum-Antarctic TED 10:00-10:25 Si Covery of active and inactive hydrothermal vents along the middle Central Indian Ridge 10:45-11:05 Discovery of active and inactive hydrothermal vents along the middle Central Indian Ridge 10:45-11:05 Geophysics Si 10. Jonguk Kim 11:45-11:05 Geophysics Si 10. Seung Sep Kim 11:45-11:05 Geochemistry of basalt from the super-segment of the Australian-Antarctic Ridge 11:45-11:05 Geochemistry of basalt from the super-segment of the Australian-Antarctic Ridge 11:45-12:00 Geochemistry of basalt from the super-segment of the Australian-Antarctic Ridge 11:45-12:00 St 0.1 Paul G. Falkowski (Ruges University) 11:45	May 14 (T	uesday)	
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15:00-15:20 Implications of Warming and Strengthened Stratification to the Eukaryotic Microbial Communities of the Arctic Ocean	14:40-15:00	Microplastics (MPs) in Arctic Environment monitored by 2016-2017 ARAON Expedition:	
15:30-16:00 Coffee Break and Poster Session	15:00-15:20	Implications of Warming and Strengthened Stratification to the Eukaryotic Microbial	
	15:30-16:00	Coffee Break and Poster Session	

	Response of the Southern Ocean to the Changing Climate - Auditorium		Past analogue for future Arctic Glacial and oceanographic perspective 1 - Sejong International Conference Room
16:00-16:25	S3 01. Klaus Meiners Understanding Change in Sea-Ice Ecosystems	16:00-16:30	S4 01. Kyung Sik Woo Why Did the Laurentide Ice Sheet Start to Build up at 50 KA
16:25-16:45	S3 02. Craig Lee Sustained, Autonomous Observations Beneath Dotson Ice Shelf	16:30-16:50	S4 02. Seung-Il Nam KOPRI's Arctic Research Programs: Scientific achievements and Future research plans
16:45-17:05	S3 03. Patricia Yager How Ice-Sheet-Ocean Interactions Impact The Carbon Cycle of An Antarctic Coastal Polynya	16:50-17:10	S4 03. Kyeong Ja Kim Glacial history and paleoceanographic changes of the western Arctic Ocean (Mendeleev Ridge) using beryllium isotopes
17:05-17:25	S3 04. Robert Sherrell Iron Sources to the Amundsen Sea: Glacial Ice Melt May Not Be The Main Input	17:10-17:25	S4 04. Young Jin Joe Quaternary litho- and seismic stratigraphy of the Chukchi abyssal plain, Western Arctic Ocean
17:25-17:45	S3 05. Jeomshik Hwang Characteristics of Sinking Particles in the Amundsen Sea	17:25-17:40	S4 05. Kenta Suzuki Collapses of the Northwestern Sector of the Laurentide Ice Sheet During the Last Glaciation Constrained by Ramped Pyrolysis ¹⁴ C Sediment Dating in the Western Arctic Ocean
17:45-18:00	S3 06. Hyoung Sul La Zooplankton Vertical Behavior in the Amundsen Sea, Antarctica	17:40-18:00	S4 06. Christelle Not Evolution of Western Arctic Ocean Water Masses Stratification During the Last 150,000 Years

May 15 (W	/ednesday)		
Registration	1 - Reception Desk		
08:30-09:00	Registration		
Plenary Le	cture 2 - Auditorium		
09:00-09:30			State University) the changing Arctic Ocean
	Past analogue for future Arctic Glacial and oceanographic perspective 2 - Auditorium		Changing Arctic Ocean: Understanding the impacts of climate changes and their global consequences 2 - Sejong International Conference Room
09:30-10:00	S5 01. Christoph Vogt The Plio-Pleistocene ACEX (Leg 302) record revisited: A high resolution mineralogical record	09:30-10:00	S6 01. Craig Lee Stratified Ocean Dynamics of the Arctic: SODA
10:00-10:15	S5 02. Kwangkyu Park Changes of sedimentary mineral composition in the Makarov Basin for the last ~1 Ma	10:00-10:20	S6 02. Saewung Kim Exploring Biogenic Reactive Volatile Organic Compounds over the Arctic
10:15-10:30	S5 03. Hyo-Seok Park Arctic amplification as a key constraint on the Northern Hemisphere temperature in mid-Holocene	10:20-10:40	Ocean S6 03. Jeremy Wilkinson Eco-Light: Understanding the Impact
10:30-10:45	S5 04. Dukki Han Microbial Diversity and Community Composition in Holocene Sediments	10.20-10.40	of Changes in the Under-Ice Light Field
10:45-11:00	in the Arctic Ocean S5 05. Haryun Kim Importance of organic matter in mercury spatial distribution into	10:40-11:00	S6 04. Chang-Qing Ke Arctic sea ice thickness retrievals from CryoSat-2: seasonal and interannual comparisons of three different products
11:00-11:30	Svalbard fjord sediments S5 06. Tommaso Tesi Post-Glacial Warming and Permafrost Carbon Release into the Arctic Ocean	11:00-11:20	S6 05. Hyung-Gyu Lim Impact of Nonlinear Rectification of Interannual Chlorophyll Variability in Present-Day and Future Arctic Climate
Invited Lec	ture - Auditorium	·	
11:30-12:00	IL 01. Yong Ahn Park (UN CLCS) Recent CLCS/UNCLOS Activities and SOU(Statement of Understanding), Annex II, Final Act, Convention		
12:00-13:00	Lunch		

Special Lec	ture 2 - Auditorium	
13:00-13:30	SL 02. Jürgen Mienert (UiT, The Arctic University of Norway) Migration of Greenhouse Gas Methane through the Arctic Seabed	
Session 7.	Rapid change in Arctic sub-seabed - Auditorium	
13:30-13:50	S7 01. Mathieu J. Duschesne Characterizing Offshore Permafrost Conditions Using Seismic Arrivals and Attenuation: A Preliminary Appraisal	
13:50-14:10	S7 02. Edward King Shallow Marine Permafrost Occurrence on the Westernmost Arctic Canadian Shelf: A Potential Record of Long-Term Subsea Top-Down Thaw Rates?	
14:10-14:30	S7 03. Seung-Goo Kang Identification of Subsea-Permafrost-Distribution on the Continental Shelf of the Canadian Beaufort Sea Using a Full Waveform Inversion Algorithm	
14:30-14:50	S7 04. Tae Siek Rhee Modest Emission of the CH4 From the Western Arctic Ocean	
14:50-15:10	S7 05. Dong-Hun Lee Biogeochemical Signatures on Methane Oxidations in the Seafloor of the Arctic	
15:10-15:30	S7 06. Simona Retelletti Brogi Exploring Sediment Porewater Dissolved Organic Matter (DOM) in a Mud Volcano: Clues of a Thermogenic DOM Source from Fluorescence Spectroscopy	
15:30-16:00	Coffee Break and Poster Session	
	Late Quaternary Ocean-Cryosphere interaction in the Antarctic Ocean - Auditorium	
16:00-16:20	S8 01. Sunghan Kim Sedimentation process in the deep-sea region off the Bellingshausen Sea in association with ice sheet dynamics	
16:20-16:40	S8 02. Li Wu Late Quaternary dynamics of the Lambert Glacier Amery Ice Shelf System, Prydz Bay(East Antarctica)	
16:40-17:00	S8 03. Jinwook Kim Biogeochemical Modification of Clay Minerals in Antarctic Region: Implications	
17:00-17:20	S8 04. Ji Young Shin Rock Magnetic Properties of Scotia Sea Sediments from the Southern Ocean: Link Between Magnetic Susceptibility and Climate Change	
17:20-17:40	S8 05. Sangbeom Ha Glacio-Marine Sedimentations in the Continental Slope and Rise to the East of Pennell-Iselin Banks in the Ross Sea	
18:00-19:30	Banquet and Young Scientists Award Ceremony	

POSTER SESSION

May	y 14	-15 (Tuesday-Wedne	esday)	
Geo	ologi		(& Biological) processes in Circum-Antarctic Ridges	
- Ha	llway			
P1	01	Sarang Choi (Seoul Nat'l Univ.)	Melt-Rock Reaction in Garbbroic Rocks from the Central Indian Ridge and the Influence on MORB	
P1	02	Jae Eun So (UST, KOPRI)	The Revision of Lichen Flora Around Maxwell Bay, King George Island, Antarctica	
P1	03	Inhye Ahn (UST, KOPRI)	Application of microCT and cLSM to the internal structures of invertebrates	
P1	04	Ji-Hoon Kihm (UST, KOPRI)	The Preliminary Taxonomic Report of Tardigrades from Sirius Passet, North Greenland	
P1	05	Chang-Sook Jeong (UST, KOPRI)	Purification, crystallization and preliminary X-ray crystallographic analysis of aminoglycoside 2'-N-acetyltransferase from Mycobacterium smegmatis.	
P1	06	Jisu Choi (UST, KOPRI)	Noble Gas Study of the Five Antarctic CK Chondrites	
P1	07	Soo Rin Lee (Pukyong Nat'l Univ.)	Metabarcoding Analysis of Planktonic Biodiversity in the Ross Sea	
P1	08	Yun-seok Yang (Inha Univ. KOPRI)	Geochemistry of olivine-hosted and plagioclase-hosted melt inclusions in basalts from Deception Island	
P1	09	Je-hyun Song (Chungnam Nat'l Univ.)	Characterizing effects of bottom currents on deep-sea sediments in the northern Pacific Ocean using deep-sea sub-bottom profiler data	
P1	10	Larysa Samchyshyna (National Academy of Sciences of Ukraine)	Community Structure and Biomass of Mesozooplankton in the Bransfield Strait: A Case Study from Krill Synoptic Survey in CCAMLR Subarea 48.1 in 2019	
P1	11	Yongjae Lee (Yonsei Univ.)	Extreme Conditions Study at the Institute for High-pressure Mineral Physics and Chemistry at Yonsei University	
P1	12	Alysse Bebin (Chungnam Nat'l Univ.)	Structure and evolution of the central intra-transformant segment of St Paul, Equatorial Atlantic Ocean, from the analysis of fault distribution and petrology	
Cha	nain			
Clia	mgm	ig Arcue Ocean: Unu	erstanding the impacts of climate changes and their	
glol	bal (consequences		
- На	llway	-		
110	mway	Hyerim Kim		
P2	01	(Hanyang Univ.)	Decline of Arctic Sea Ice and Persistence of the Pacific Decadal Oscillation	
P2	02	Hyo Jin Kang (UST, KOPRI)	Comparison of Microphysical Characteristics of Aerosols and Cloud Droplet Residuals at Zeppelin Station, Arctic Region	
P2	03	Tae-Ho Yoon (Pukyong Nat'l Univ.)	Metabarcoding analysis of the zooplankton community in the Arctic Ocean	
P2	04	Haemin Won (Hanyang Univ.)	Nitrogen source in the Pacific Arctic Ocean revealed by nitrogen stable isotope ratio of amino acids in Calanus spp.	
P2	05	Eri Yoshizawa (KOPRI)	wa Variation of Convective Waters Originated in East Siberian Shelves of the Arctic Ocean	
P2	06	Wooseok Oh (Chonnam Nat'l Univ.)	0 0 ,	
P2	07	Jong-Ku Gal (KOPRI)	Distribution of Lipid Biomarkers in the Water Column of the Konsfjorden, Svalbard, Arctic	
P2	08	Soo-Bin Kim	Annoaranco of the High-Salinity Loid Water in the Pacific Arctic Sector	
	00	(Inha Univ., KOPRI)		
P2	09	(Inha Univ., KOPRI) Eunho Ko (UST, KOPRI)	Effects of Nitrate Availability on Phytoplankton Photophysiology in the Arctic Ocean in Summer	
		Eunho Ko		
P2	09	Eunho Ko (UST, KOPRI) Gwang Il Jang	the Arctic Ocean in Summer Changes of Microbial Diversity Along Salinity Gradient in Melt	

P2 13	Seunghan Lee (Marine Act co.)	Zooplankton Community Structure in the Western Arctic Ocean, in Summer of 2016 and 2017	
P2 14	Ji Ran Lee (KOPRI)	Diatoms in the Chukchi Sea During Summer Season	
P2 15	Jee-Hoon Kim (Seoul Nat'l Univ., KOPRI)	The summer migration of Pacific zooplankton follows the temperature and salinity of Bering Sea/Anadyr Water in the Chukchi Sea	
P2 16	Cho Rom Shim (KOPRI)	Spatial Distribution of Phytoplankton Community in the Kongsfjorden, Spitsbergen	
P2 17	Jinyoung Jung (KOPRI)	Dynamics of Dissolved Organic Carbon in the Western Arctic Ocean	
P2 18	Ahra Mo (Korea Univ.)	Total Alkalinity Contained in Sea Ice and The Impact of its Release on Total Carbon Contents at the East Siberian Sea	
P2 19	Kwanwoo Kim (Pusan Nat'l Univ.)	Primary production of ice algae in the landfast sea ice zone at the Cambridge bay, Canadian Arctic Archipelago	
P2 20	Ahyoung Ku (Inha Univ.)	Observation of Topographic Rossby Waves on the Shelfbreak of the Chukshi Sea	
P2 21	Eun-Jin Yang (KOPRI)	Grazing impact of microzooplankton on the picophytoplankton and bacterioplankton in the Chukchi Sea and East Siberian Sea, the western Arctic Ocean	

Response of the Southern Ocean to the Changing Climate

- Hallway

5			
P3 01	Mohd Riduan Ahmad (Universiti Teknikal Malaysia Melaka)	Cloud-to-Ground Lighting Observations Over the Western Antarctic Region	
P3 02	Louise Newman (Southern Ocean Observing System)	Delivering sustained, coordinated and integrated observations of the Southern Ocean for global impact	
P3 03	Pip Bricher (Southern Ocean Observing System)	Data Discovery: The Backbone of Southern Ocean Science	
P3 04	Yoshihiro Nakayama (Hokkaido Univ.)	Pathways of Circumpolar Deep Water Intruding Towards Pine Island and Thwaites Grounding Lines	
P3 05	Young-bae Ham (UST, KOPRI)	Preliminary Results of the Aurora Observation in Jang Bogo Station	
P3 06	Eunho Jang (UST, KOPRI)	Relationship Between the Taxonomic Composition of Phytoplankton and The Formation of Aerosol Particles in the Southern Ocean	
P3 07	Chang-Kyu Lim (KOPRI)	A Statistical Reconstruction of ASL Intensity During 20th Century	
P3 08	Wuju Son (UST, KOPRI)	Spatial Distribution of Antarctic Krill (EUPHAUSIA SUPERBA) and Ice Krill (EUPHAUSIA CRYSTALLOROPHIAS) in the Western Ross Sea During Summer 2018	
P3 09	Dukwon Bae (Pusan Nati'l Univ.)	Recovery of ocean color data using machine learning techniques for regional-scale studies: focused on off the Cape Hallett, Ross Sea	
P3 10	Tae-Ho Yoon (Pukyong Nat'l Univ.)	Metabarcoding analysis of the zooplankton community in the Arctic Ocean	
P3 11	Boyeon Lee (KOPRI)	Distribution of the Major Inorganic Nutrients in the Ross Sea, Antarctica	
P3 12	Mi Seon Kim (KOPRI)	Estimating Net Community Production Using Dissolved Inorganic Carbon Content in the Amundsen Sea Polynya, Antarctica	
P3 13	Kyounghoon Lee (Chonnam Nat'l Univ.)	Identification of Antarctic Krill (Euphausia superba) and lanternfish (Electrona carlsbergi) Using Frequency Difference Method	
P3 14	Heewon Yang (KOPRI)	Oceanic heat transport into the Dotson Ice Shelf and its effect on melting	
P3 15	Bokyung Kim (KOPRI)	The Influence of Penguin Excrement on Phytoplankton Production During Short-term Incubation in the Ross Sea, Antarctica	
P3 16	Naeun Jo (Pusan Nat'l Univ.)	The Biochemical Compositions of Phytoplankton and Zooplankton in Northwestern Ross Sea During Late Austral Summer in 2018	
P3 17	Junbeom Lee (Pusan Nat'l Univ.)	Spatial Variation in Transparent Exopolymer Particles (TEP) Concentration in the Ross Sea	
P3 18	Hye Ju Yoo (Pusan Nat'l Univ.)	Comparison of Macromolecular Composition of Different Sized-cells of Phytoplankton in the Amundsen Sea, Antarctica	

Р3	10	Minkyoung Kim	Reconstruction of the History of the Amundsen Sea Polynya in the					
гэ	13	(Seoul Nat'l Univ.)	Amundsen Sea, Antarctica					
Р3	20	Kwanwoo Kim (Pusan Nat'l Univ.)	Monthly Variation in Macromolecular Compositions in Phytoplankton in the Ross Sea					
Р3	21	Seo Hee Ahn (UST, KOPRI)	Measurement of Aerosol Optical Properties on the R/V Araon Using a Shipborne-Aureolemeter in Polar Regions					
Р3	22	Eunho Jang (UST, KOPRI)	Relationship Between the Taxonomic Composition of Phytoplankton and the Formation of Aerosol Particles in the Southern Ocean					
Р3	23	Young Shin Kwon (UST, KOPRI)	Spatial Variability of the Surface Phytoplankton Biomass in the Ross Sea During the Summer in 2018/2019					
P3 24 Sian Henley (Univ. of Edinburgh)			Nutrient and carbon supply, uptake and cycling across the Antarctic Peninsula shelf during summer					
Pas	t an	alogue for future Ar	ctic: Glacial and oceanographic perspective					
	llway	0						
P4	01	Dahae Kim (KOPRI)Tracing terrestrial organic matter in two contrasting Arctic a case study in the Mackenzie Trough in the Canadian B Sea and in Wijdefjorden in the Svalbard Archipelag						
P4	02	Kwangchul Jang (KOPRI)	Spatial Variation in Detrital Neodymium Isotopes of Svalbard Surface Sediments					
P4	03	Hyun Young Chung (UST, KOPRI)	Polymerization of Silica in Ice and its Implication for Polar Region					
P4	04	Sewon Chang (KIGAM)	8					
P4	05	Jung-Hyun Kim (KOPRI)	Application of the PIP25index for reconstructing sea ice extent in the Chukchi Sea over the last 140 years					
P4	06	Yu-Hyeon Park (Pusan National Univ.	Paleoenvironmental changes based on biomarker in the northern Chukchi Sea during the Holocene					
P4	07	Young Ji Joo (KOPRI)	Holocene Environmental Changes in Dicksonfjorden, West Spitsbergen, Svalbard					
P4	08	Yongwon Kim (Univ. of Fairbanks)	Effect of Crustose Lichen on Soil Carbon Emission in Sphagnum Moss Community of Tundra Ecosystem, West Alaska)					
-	id c Ilway	hange in Arctic sub-	seabed					
P5		Young Keun Jin (KOPRI)	Overview of the Araon's Arctic Marine Geoscience Expeditions					
P5	02	JeongKyu Jang (Gyeongsang Nat'l Univ.)	Clay Mineral Characteristics of 420 MV (Mud Volcano) in Beaufort Sea, Arctic Ocean					
Р5	03	Joonseop Lee (UNIST)	Phase Equilibria, Guest Distributions, and Dissociation Behaviors of Natural Gas Hydrates in the Presence of Clay					
Р5	04	Tae Siek Rhee (KORPI)	Development of an Analyzing System for High Resolution Measuremen of Dissolved CH4 and CO2 Concentrations in the Surface Ocean					
P5	05	Seung-Goo Kang (KORPI)	Geophysical Investigation of Gas Hydrate in the Chukchi Plateau, Arctic					
P5	06	HyoJin Koo (Gyeongsang Nat'l Univ.)	Characteristics of Manganese Nodule from the Arctic Ocean					
P5	07	Dong-Hun Lee (Hanyang Univ.)	Biogeochemical Evidence of Anaerobic Methane Oxidation on Active Submarine Mud Volcanoes on the Continental Slope of the Canadian Beaufort Sea					
P5	08	Sookwan Kim (KOPRI)	High-Resolution Seismic Stratigraphy, Glacigenic Sedimentary Processes and Seafloor Morphology in the Chukchi Rise (The Arctic Ocean): Preliminary Results					
P5	09	Young-Gyun Kim (Kangwon Nat'l Univ.)	Seeping Activity of Gas Hydrate Mounds in the Eastern Slope of the Chukchi Basin, Arctic Ocean					
	e Qu Ilway	aternary Ocean-Cryo	sphere interactions in the Antarctic Ocean					
- na		Young Kyu Park (Yonsei Univ.) Elemental composition of smectite tracing the sediment provenance southern Drake Passage and Bellingshausen Sea during glacial-intergle						
D4	02	Boo-Koun Khim Seasonal and Inter-annual Change of Sediment Tran Part						

GUIDE FOR ORAL / POSTER PRESENTATION

Oral Presentation

Please check your presentation schedule and prepare your presentation within the allocated time.

A beam projector and laptop will be provided for your presentation. To avoid technical problems, presenters are asked to use Microsoft Power Point. If you have any files that are not competible with Windows, you are cordially invited to bring you own laptop for your presentation.

Poster Presentation

For your poster presentation, an A0 sized board will be provided. Each poster will/should be posted for 2 days from 09:00-18:00, according to poster session schedule. Please check the schedule and prepare your poster in advance.

TRANSPORTATION INFORMATION

From Incheon International Airport to the city central

Incheon International Airport is well connected to all major cities in Republic of Korea, including Incheon where KOPRI is located. Depending on your arrival time, you can choose between two options; Limousine Bus (6707B) or Taxi.

○ Limousine Bus (KRW 7,000; approx. USD 7)

There is a Korean Air Lines (KAL) Limousine Bus operating between the airport and the hotels located nearby KOPRI.

For those will arrive at Terminal 1, You can purchase bus tickets and get information at ticketing offices next to Exit 4 and 9 in Arrival Hall Floor 1 (indoors) or offices next to Exit 4, 6, 7, 8, 11, 13, and 9C (outdoors).

For those will arrive at Terminal 2, please proceed to the first basement (B1) level. You can purchase bus tickets and get information at ticketing offices indoors on The 2nd Transportation Center (B1).

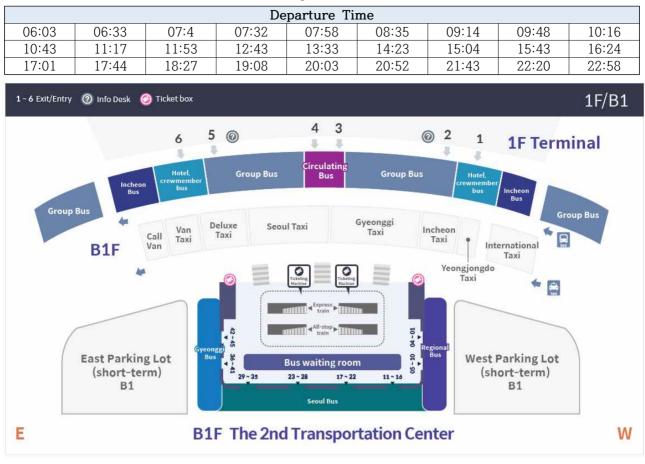
Please refer to the Incheon Airport Homepage (https://www.airport.kr/ap_cnt/en/tpt/pblctpt/pblctpt.do).

- Bus route : Incheon Airport Terminal 1 → Terminal 2 → Korea Coast Guard HQ
 → Orakai Songdo Park Hotel → Central Park Hotel / Gyeongwonjae
 Ambassador Hotel → Holiday Inn Incheon Songdo → Skypark Incheon
 Songdo → Oakwood Premier Incheon → Sheraton Grand Incheon Hotel
- 2. Bus timetable and location of bus stop for Terminal 1

Departure Time									
05:43	06:13	06:44	07:12	07:38	08:15	08:54	09:28	09:56	
10:23	10:57	11:33	12:23	13:13	14:03	14:44	15:23	16:04	
16:41	17:24	18:07	18:48	19:43	20:32	21:23	22:00	22:38	



3. Bus timetable and location of bus stop for Terminal 2

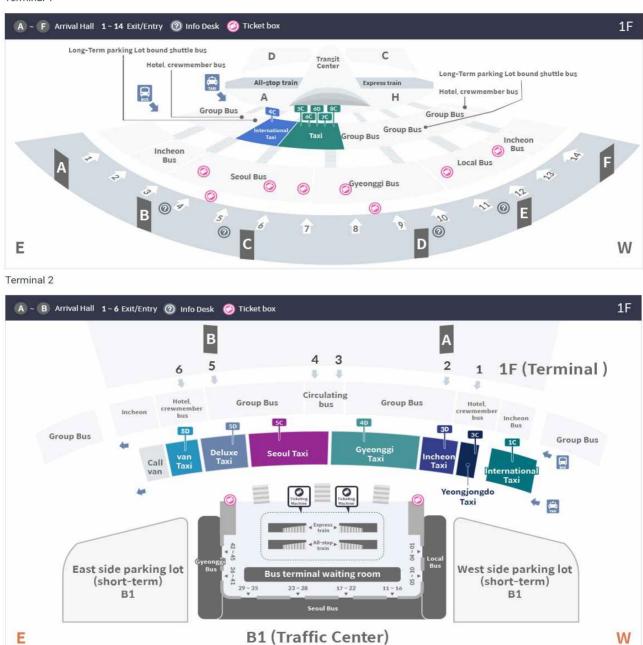


○ TAXI (KRW 30,000; approx. USD 30)

Please refer to the Incheon Airport Homepage (https://www.airport.kr/ap/en/tpt/pblcTptTaxi.do).

1. Taxi stand





2. Address in Korean

Accommodation	Address	Telephone
KOPRI	인천 연수구 송도 미래로 26 극지연구소	032-770-8400
Orakai Songdo Park Hotel	인천 연수구 테크노파크로 151 오라카이 송도 파크 호텔	032-210-7000
Central Park Hotel	인천 연수구 테크노파크로 193 송토 센트럴 파크 호텔	032-310-5000
Gyeongwonjae Ambassador	인천 연수구 테크노파크로 200 경원재 앰배서더 호텔	032-729-1101
Holiday Inn Incheon Songdo	인천 연수구 인천타워대로 251 홀리데이인 인천 송도	032-250-0000
Skypark Incheon Songdo	인천 연수구 컨벤시아대로 233 호텔 스카이파크 인천 송도	032-717-0700
Oakwood Premier Incheon Hotel	인천 연수구 컨벤시아대로 165 오크우드 프리미어 인천 호텔	032-726-2000
Sheraton Grand Incheon Hotel	인천 연수구 컨벤시아대로 153 쉐라톤 그랜드 인천 호텔	032-835-1000

From Hotel to KOPRI

Bus transportation between Orakai Hotel and KOPRI will be provided during May 14-15. It will take less than 10 mins by bus. You can find the timetable below;



KOPRI's location on Google Maps: <u>https://goo.gl/maps/k5rZunPchEA3A2XW7</u> Orakai Hotel's location on Google Maps: <u>https://goo.gl/maps/mF4sEnuMQQdsEKtM9</u>