

Poster Session

March 8, 2023

Core time 1 (Online) : 8:20-9:20 (JST)

Core time 2 (Online) : 17:00-18:00 (JST)

Presentations will be given during the Core Times highlighted in yellow.

[For Presenters] Any changes or corrections should be noted in the comments section of the Online Meeting Participation Site (confit).

Presentation No.	Core Time 1	Core Time 2	Presentation Title
R1-P01			Temporal Variations of the Mole Fraction, Carbon, and Hydrogen Isotope Ratios of Atmospheric Methane observed at Churchill, Canada
R1-P02			Mesoscale Atmospheric Structure near the Sea Ice Edges over the Arctic Region as represented by ERA5
R1-P03			Future changes of Arctic cloud and its radiation effect in large ensemble projections by MIROC6
R2-P01			Comparisons of sea-ice reproducibility and their impacts on climate variability in an initialized climate model
R2-P02			First look of ocean and sea-ice conditions from Ice Exercise 2022 (ICEX 2022)
R2-P03			Satellite-based mapping of sediment-laden sea ice
R2-P04			Laboratory experiment of ice group formation under waves
R2-P05			Impacts of freshwater types on sea surface partial pressures of CO ₂ in the Pacific sector of the Arctic Ocean
R2-P06			Experimental research on spectral downshift of propagating waves under sea ice
R2-P07			Melt pond CO ₂ dynamics and flux with the atmosphere in the central Arctic Ocean during summer to autumn transition
R2-P08			Sea ice variability on the Chukchi Sea and the Beaufort Sea since the Late Pleistocene
R2-P09			Interannual variability of phytoplankton community structure in the Pacific Arctic Region
R2-P10			Spatial distribution of manganese in surface waters in the East Siberian Arctic Seas
R2-P11			Temporal changes in physical and biogeochemical properties of halocline waters in the Canada Basin
R2-P12			Impacts of non-breaking wave induced mixing on the modelling of Arctic Cyclone through the two-way coupled numerical model
R2-P13			Radiation characteristics of thin sea ice in the ice tank experiments during freezing and melting periods using multifrequency passive microwave radiometers
R3-P01			Representation of Microscale Spatial Variability in Thaw Depth in Eastern Siberian Larch Forests
R3-P02			Intraseasonal permafrost thaw processes around Batagay NE Siberia detected by ALOS-2/PALSAR-2 InSAR time series analysis

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R3-P03			Deep learning-based identification of thermokarst in Eastern Siberia and its relationship with local environment and land use
R3-P04			Thermal Denudation Features on the Yamal Peninsula
R3-P05			Black carbon and their isotopic signatures in soil and permafrost in Ny-Ålesund, Svalbard: Implication of sources and fate under changing Arctic climate
R3-P06			Detecting spatio-temporal variations in water and vegetation change areas in the East Siberian permafrost zone using backscatter coefficient and DSM
R3-P07			Monitoring surface temperature and channel width of the six Arctic rivers from space using GCOM-C/SGLI
R3-P08			Single-spore PCR revealed the novel parasitic fungi infecting snow algae in alpine ecosystems
R3-P09			In-situ field observations of snow cover characteristics in Alaskan boreal forest during the snow melt season
R3-P10			Monitoring of snow physical parameters by spectral radiation measurements using ground-based optical instrument in Ny-Ålesund, Svalbard
R4-P01			Snow accumulation inferred from a GPR survey around the Southeastern Dome, Greenland Ice Sheet
R4-P02			The current state and future directions of the polar regional climate model NHM-SMAP
R4-P03			Numerical modeling of biological processes on snow and glacier surfaces in the Arctic region
R4-P04			Early melt onset drives dark ice exposure on the Greenland Ice Sheet
R4-P05			Changes in stripe patterns of dark regions in the southwestern Greenland Ice Sheet
R4-P06			Temporal variations of radiant fluxes and surface energy balance from 2012 to 2020 at the SIGMA-B site on Qaanaaq Ice Cap, northwestern Greenland
R4-P07			Mass balance and surface elevation change of Qaanaaq Ice Cap in northwestern Greenland from 2012 to 2022
R4-P08			Meltwater discharge from Qaanaaq Glacier in the summer 2022
R4-P09			Drone survey for precise DEM construction and supraglacial stream mapping on Qaanaaq Glacier, northwestern Greenland
R4-P10			Ground penetrating radar survey on Qaanaaq Glacier in northwestern Greenland
R4-P11			The prevalence of chytrid infection of glacier algae on a glacier in Alaska
R4-P12			Dating and insoluble particle analysis of a shallow ice core drilled at EGRIP, Greenland
R4-P13			Variations in mineralogy of dust in ice cores obtained from Greenland over the past 100 years
R4-P14			Abrupt shifts in terrestrial aerosol deposition in Greenland during Dansgaard-Oeschger events 9-13
R4-P15			Atmospheric CH ₄ concentration during the Holocene reconstructed from the NEEM (Greenland) and Dome Fuji (East Antarctica) ice cores

Presentation No.	Core Time 1	Core Time 2	Presentation Title
R5-S8-P01			Characterization and discrimination of tundra plant leaves by Attenuated Total Reflection Fourier Transform Infrared spectroscopy
R5-S8-P02			Populations and leaf-trait variations of two Labrador-tea species across permafrost gradients in interior Alaska
R5-S8-P03			Methane emission from tree stems in interior Alaska
R5-S8-P04			Total carbon and nitrogen stocks of the degrading Ice Complex permafrost at Yukechi, central Yakutia
R5-S8-P05			Lagging Effect of Stem Respiration on Temperature in Sub- Arctic Species, Interiro Alaska
R5-S8-P06			Interrelationships of CO ₂ , CH ₄ , and N ₂ O fluxes in Snow-Covered Temperate Soils, Northern Japan
R5-S8-P07			Methane observations at the terminus of glaciers in Alaska
R5-S8-P08			Winter Soil Temperature and Growing Season Net CO ₂ Exchange in Eastern Siberian Larch Forests
R5-S8-P09			Temporal and spatial patterns of remote sensing reflectance of understory vegetation in a sparse black spruce in interior Alaska
R5-S8-P10			Ecological and physiological features of the process of photosynthesis of Asian white birch (<i>Betula platyphylla</i>) in Central Yakutia
R5-S8-P11			Snow cover impacts greenhouse gas dynamics in subarctic, alpine catchments
R5-S8-P12			Regional Carbon Cycle Assessment Processes 2 (RECCAP2): CO ₂ uptake in the Arctic Ocean
R6-P01			Degradation of phthalates and camphor by the deep-marine halophilic bacteria <i>Halomonas titanicae</i> and their relevance to the order Oceanospirillales
R6-P02			Sea ice melt timing and ammonium concentration can alter autumn phytoplankton composition in the Pacific Arctic
R6-P03			Biological features of <i>Calanus glacialis</i> in the Pacific sector of the Arctic Ocean during autumn in 2019
R7-P01			Statistical study of high energy electron precipitation based on Arase satellite - EISCAT collaborative observation data
R7-P02			Studies of pulsating aurorae: simultaneous observations with the Arase satellite and optical instruments in the Arctic
R7-P03			Relationship between pulsating auroral electrons and duct propagation of chorus waves: Simultaneous observations with EISCAT, ground-based all-sky imagers and Arase
R7-P04			Studies of nightglow emissions in the mesopause above northern Scandinavia
R7-P05			A new spectroscopic and imaging observation of short wavelength infrared aurora and airglow (1.00-1.35 μm) at Longyearbyen (78.1°N, 16.0°E) coordinated with EISCAT Svalbard radar
R7-P06			Spectroscopic observation of OH airglow in 1.1-1.3 μm in the polar region
R7-P07			Coordinated observations of energetic electron precipitation by subionospheric VLF/LF radio propagation with other groundbased facilities
R7-P08			The 10-year summary of the sodium lidar at Tromsø, and its future plan

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R7-P09			Ultra-narrowband Optical Filter Development for the Na lidar Observation at Tromsø
R7-P10			A self-build FPGA-based data acquisition system for Tromsø sodium lidar
R7-P11			Polar mesospheric cloud observations by the Advanced Himawari Imager onboard the Japanese geostationary-Earth-orbit meteorological satellite Himawari-8
R9-P01			Polar Educators International and the Third Arctic Science Ministerial (2021): A Landmark for Polar Education
S2-P01			Baroclinic Blocking
S2-P02			Interannual-to-decadal modulation of wintertime subseasonal variability over the Eurasia-East Asian sector
S2-P03			Interannual Variation of the Warm Arctic-Cold Eurasia Pattern Modulated by Internal Atmospheric Variability Examined by a Large Ensemble Experiment
S2-P04			A hemispheric extreme warm winter in 2019-20 enhanced by the highest sea surface temperature around mid-latitude
S2-P05			Winter atmospheric trends over East Asia analyzed for individual surface pressure patterns
S2-P06			Lagged remote effect from tropical ocean on sea ice variability in the Sea of Okhotsk
S2-P07			Impact of the Pacific sector sea ice loss on the sudden stratospheric warming characteristics
S2-P08			Arctic Sea ice loss and Eurasian cooling in winter 2020-21
S3-P01			Global carbon budgets estimated from long-term observations of the atmospheric CO ₂ mole fraction, isotopic ratio of CO ₂ and O ₂ /N ₂ at Ny-Alesund, Svalbard
S3-P02			Evaluation of black carbon in the Arctic region using the WRF/CMAQ simulation on the Northern Hemisphere scale
S3-P03			Variations of organic aerosols at Fukue Island as affected by the large-scale lockdown due to COVID-19
S3-P04			Shipborne observations of black carbon aerosols in the Arctic Ocean during summer and autumn 2016–2020
S4-P01			Spatial and temporal variations of surface seawater carbonate properties in the western Arctic Ocean: Results from the R/V Mirai observations
S4-P02			Seasonal variation in nutrient concentration of the Pacific-origin water from the Chukchi Sea to the Canada Basin
S7-P01			Stable Water Isotopes and Tritium Concentrations Reveal Seasonal Contributions of Ground Ice and Snow Meltwater to the Lena River Basin
S7-P02			Seasonal Variation of Stable Isotopes in Precipitation at Fairbanks, Alaska
S7-P03			Freshwater budget of the Sea of Okhotsk and sea ice variability
S7-P04			HYPE-ERAS: A Transdisciplinary View on Climate Change Impacts on Hydrology, Permafrost and Resilience in Eastern Siberian Arctic and Sub-Arctic
S9-P01			Multi-actor cooperation for sustainable development of cruise tourism in the Pacific Arctic: The Case of the Russian Far East

Presentation No.	Core Time 1	Core Time 2	Presentation Title
S10-P02			A Research on New Dimensions of Science Diplomacy and the Changing Arctic in the Anthropocene
S16-P01			North Greenland Inuit materials collected 50 years ago at the Little World Museum of Man
S18-P01			Improvement of an Arctic Sea Route Search System to increase calculation speed
S23-P01			Monitoring of polar snow by AMSR-E and AMSR2 satellite microwave observations
S23-P02			Developing a regional observing system for the pan-Arctic community
S23-P03			Using NEON Active Layer Sampling Methods for Pathogen Detection in Melting Permafrost
S23-P04			Data Management of Arctic Project in Japan