

A01: Understanding the Arctic climate change and its global influences: Japan's contributions and suggestions for the future

Main Convener: Kumiko Takada

【Oral】

April 28, 13:45–15:15

refere	Time	Number	presentationtitle
	13:45–13:55		Introduction of the session Enomoto, H
599	13:55–14:15	A01–001	Towards an Ice-free Arctic Ocean in Summertime Gascard Claude Jean, Rafizadeh Mehrad
386	14:15–14:30	A01–002	A MODELING STUDY ON THE INFLOW OF THE ATLANTIC WATER AT THE FRAM STRAIT Kawasaki Takao, Hasumi Hiroyasu
67	14:30–14:45	A01–003	The effect of remote forcing and local feedback on the Arctic warming under the elevated atmospheric CO2 concentration Yoshimori Masakazu
491	14:45–15:00	A01–004	Modulation of the Arctic Linkages on Atmospheric Energy Transport in Northern High Latitudes Ukita Jinro, Honda Meiji, Kadono Mio, Iwamoto Katsushi, Ogawa Yasunobu, Tomikawa Yoshihiro, Nakamura Tetsu, Yamazaki Koji, Miyoshi Yasunobu, Harada Yusuke, Kanzawa Hiroshi
410	15:00–15:15	A01–005	GLACIER DYNAMICS NEAR THE CALVING FRONT OF BOWDOIN GLACIER, NORTHWESTERN GREENLAND Sugiyama Shin, Tsutaki Shun, Sakakibara Daiki, Saito Jun, Maruyama Mihiro, Katayama Naoki, Sawagaki Takanobu, Funk Martin, Bauder Andreas, Sugiyama Shin, Tsutaki Shun

April 28, 15:45–17:15

208	15:45–16:00	A01–006	A biological contribution to partial pressure of CO2 in the western Arctic Ocean and Bering Sea Futsuki Ryosuke, Hirawake Toru, Fujiwara Amane, Kikuchi Takashi, Nishino Shigeto, Sasano Daisuke, Ishii Masao, Uchida Hiroshi, Saitoh Seiichi
203	16:00–16:15	A01–007	Continuous measurements of the atmospheric O2/N2 ratio at Ny-Ålesund, Svalbard Goto Daisuke
61	16:15–16:30	A01–008	Spatial and temporal patterns on tree-ring delta-13C and tree growth over the past 100 years in circum-Arctic ecosystems Shunsuke Tei, Atsuko Sugimoto, Maochang Liang, Yojiro Matsuura, Akira Osawa, Hitoshi Yonenobu, Maximov Trofim
387	16:30–16:45	A01–009	IMPACTS OF FUTURE CLIMATE CHANGE ON ARCTIC TERRESTRIAL ECOSYSTEMS: AN ANALYSIS BASED ON ISI-MIP Ito Akihiko, Noda Hibiki, Nishina Kazuya
36	16:45–17:00	A01–010	Detection of trends in CO2 vertical profiles due to biospheric and anthropogenic flux change Patra K. Prabir
25	17:00–17:15	A01–011	Effects of black carbon on the climate of the Arctic- Current studies and future planning - Kondo Yutaka, Koike Makoto, Ukita Jinro

【Poster Core Time】 April 28, 17:30–19:00

123	A01–P01	Changes in precipitation over the Arctic projected by global atmospheric models with 20-km and 60-km grid sizes Kusunoki Shoji, Hosaka Masahiro, Mizuta Ryo, Yoshida Kouhei, Ose Tomoaki, Takayabu Izuru
246	A01–P02	MRI Landsurface model HAL Hosaka Masahiro
261	A01–P03	Introduction of new land processes and its contribution to an atmosphere-ocean general circulation model O'ishi Ryouta
477	A01–P04	Climate modelling studies in the GRENE Arctic Climate Research Project Nozawa Toru
259	A01–P05	Integrating field science and modeling: challenges and perspectives

Ise Takeshi

199 A01-P06 Characteristics of cloud fraction at Ny-Ålesund in the Arctic and Syowa station in the Antarctic
Miyagawa Mayu, Fujimoto Risa, Kuji Makoto, Yabuki Masanori, Shiobara Masataka

219 A01-P07 GROUND-BASED REMOTE-SENSING FOR CLOUDS, AEROSOL AND WATER VAPOR IN NY-ALESUND, SVALBARD AND THE GRENE ARCTIC CAMPAIGN
Shiobara Masataka, Yabuki Masanori, Ohora Kosei, Kuji Makoto, Okamoto Hajime, Takano Toshiaki, Kobayashi Hiroshi, Koike Makoto, Ukita Jinro

463 A01-P08 Tethered balloon-borne cloud measurements with Cloud Particle Microscope sonde in Ny-Alesund
Kobayashi Hiroshi, Ohora Kosei, Shiobara Masataka, Sato Kazutoshi, Koike Makoto, Takano Toshiaki, Un oKengo, Ukita Jinro

476 A01-P09 AEROSOL OPTICAL PROPERTIES OBTAINED BY SKY-RADIOMETER MEASUREMENTS AT NY-ALESUND, SVALBARD AND A CLOUD-SCREENING METHOD APPLIED FOR SKY-RADIOMETRY
Ohora Kosei, Shiobara Masataka, Tanaka Noriaki, Kobayashi Hiroshi

379 A01-P10 Winter weather in Japan controlled by large-scale atmospheric and small-scale oceanic phenomena
Ando Yuta, Ogi Masayo, Tachibana Yoshihiro, Kodera Kunihiko, Yamazaki Koji

601 A01-P11 Summary on Research Activities of the GRENE Atmospheric Group
Ukita Jinro, Koike Makoto, Miyoshi Yasunobu, Yamazaki Koji

452 A01-P12 APPROACHES FOR UNDERSTANDING ARCTIC CHANGE BY CRYOSPHERIC STUDY IN THE GRENE-ARCTIC PROJECT
Enomoto Hiroyuki

230 A01-P13 MEASUREMENTS OF ATMOSPHERIC BLACK CARBON AEROSOLS OVER THE ARCTIC OCEAN ON R/V MIRAI DURING SEPTEMBER 2014
Taketani Fumikazu, Takuma Miyakawa, Yuichi Komazaki, Hisahiro Takashima, Xiaole Pan, Yugo Kanaya

252 A01-P14 Oceanic CO2 evolutions at the fixed stations in the Arctic in summer
Kosugi Naohiro, Sasano Daisuke, Ishii Masao, Nishino Shigeto, Inoue Jun, Yoshikawa Hisayuki

594 A01-P15 Studies on greenhouse gas cycles in the Arctic and their responses to climate change
Aoki Shuji

62 A01-P16 Estimating monthly CO2 flux distribution in the Arctic and its spatio-temporal variability
Yasunaka Sayaka, Murata Masahiko, Watanabe Eiji, Kosugi Naohiro, Sasano Daisuke, Ishii Masao, Nishino Shigeto, Uchida Hiroshi

598 A01-P17 Ecosystem studies of the Arctic Ocean with declining sea ice
KIKUCHI Takashi

96 A01-P18 Characteristics of sea-ice draft revealed by a moored ice-profiling sonar in the Chukchi Sea off Barrow, Alaska
Fukamachi Yasushi, Simizu Daisuke, Ohshima Kay, Iwamoto Katsushi, Eicken Hajo, Mahoney Andrew

464 A01-P19 Arctic sea ice prediction with a global coupled atmosphere-ocean model
Nodzu I. Masato

361 A01-P20 A Wind-driven, Hybrid Latent and Sensible Heat Coastal Polynya at Barrow, Alaska
Hirano Daisuke, Fukamachi Yasushi, Watanabe Eiji, Iwamoto Katsushi, Mahoney Andrew, Eicken Hajo, Shimizu Daisuke, Ohshima Kay I, Tamura Takeshi

549 A01-P21 Coordinated observational and modeling studies on the basic structure and variability of the Arctic sea ice-ocean system
Hasumi Hiroyasu

593 A01-P22 SEA ICE PREDICTION AND CONSTRUCTION OF ICE NAVIGATION SUPPORT SYSTEM FOR THE ARCTIC SEA ROUTE
Yamaguchi Hajime

597 A01-P23 Catastrophic reduction of sea ice: Fundamental mechanisms associated with ice-ocean coupled dynamics
Shimada Koji

A2: Paleoclimatic perspective on Arctic changes and polar amplification

Main Convener: Kawamura Kenji

【Oral】

April 27, 14:00–15:30

refere	Time	Number	presentationtitle
19	14:00–14:15	A02–001	The Dynamic Arctic Ingolfsson Olafur
562	14:15–14:30	A02–002	A MULTIDISCIPLINARY, PAN–ARCTIC NETWORK FOR RESEARCHING ARCTIC PALAEOCLIMATE Strand Kari, O’Cofaigh Colm
86	14:30–14:45	A02–003	The ‘Little Ice Age’ warming in the West Greenland waters based on diatom microfossils Krawczyk Diana
411	14:45–15:00	A02–004	Arctic sea ice variability as archived by multicentury annual–resolution crustose coralline algal proxy Halfar Jochen, Moore Ken, tMajeed Haris, Adey Walter
41	15:00–15:15	A02–005	Insolation control on the Beaufort Gyre dynamics during the Holocene Yamamoto Masanobu
258	15:15–15:30	A02–006	The fleeting glaciers of the Arctic Paasche Oyvind, Bakke Jostein

April 27, 16:00–17:30

540	16:00–16:15	A02–007	The late Quaternary of Arctic Canada: the interplay of climate, sea–level, ice, and oceans Pienkowski Anna, Furze Mark
544	16:15–16:30	A02–008	The Fennoscandian ice sheet as a trigger for Dansgaard–Oeschger cycles Nisancioglu Kerim, Dokken Trond
578	16:30–16:45	A02–009	The influence of glacial ice sheets on Atlantic meridional overturning circulation through atmospheric circulation change under glacial climate Sherriff–Tadano Sam, Abe–Ouchi Ayako, Yoshimori Masakazu, Oka Akira, Chan Wing–Le
111	16:45–17:00	A02–010	VARIABILITY OF TERRESTRIAL BIOGENIC IONS OVER THE PAST 128,000 YEARS FROM A DEEP ICE CORE DRILLED AT NEEM, GREENLAND Goto–Azuma Kumiko, Wegner Anna, Hirabayashi Motohiro, Hansson Margareta, Kuramoto Takayuki, Twarloh Birthe, Motoyama Hideaki
458	17:00–17:15	A02–011	TOC fluctuation of MD01–2407 core from Japan Sea as a proxies of Greenland ice sheet in the glacial periods for the past 640 ka KUMON Fujio, TAKIZAWA Yuko
388	17:15–17:30	A02–012	Drivers and mechanisms for enhanced mid–Pliocene summer monsoon precipitation over East Asia simulated in the PlioMIP Sun Yong

【Poster Core Time】 April 28, 17:30–19:00

21	A02-P01	Sources of meteorological data for the area of Novaya Zemlya in the early instrumental period Wyszynski Przemyslaw, Przybylak Rajmund, Strzyzewski Tomasz
49	A02-P02	Meteorological conditions of the area of the Barents and Kara Seas in the early instrumental period Strzyzewski Tomasz, Wyszynski Przemyslaw,
248	A02-P03	INFLUENCE OF CLIMATIC FACTORS ON THE RADIAL GROWTH OF THE LARCH AROUND RIVER KOLYMA Kolmogorov Alexey, Nikolaev Anatoliy, Przybylak Rajmund
260	A02-P04	Complex paleo researches in the northeast of Russia Kolmogorov Alexey, Gorodnichev Ruslan, Spiridonova Irina, Yadrinhinskiy Ivan
211	A02-P05	PRELIMINARY RESULTS OF AN ICE CORE OBTAINED FROM NORTHWESTERN GREENLAND ICE SHEET (SIGMA-D) Motoyama Hideaki, Matoba Sumito, Fujita Koji, Yamasaki Tetsuhide, Omura Yukihiko, Minowa Masahiro, Komuro Yuki, Kadota Moe, Yamaguchi Satoru, Aoki Teruo
263	A02-P06	Carbonaceous aerosol tracers in ice-cores record multi-decadal climate oscillations Seki Osamu Kawamura Kimitaka James Bendle Fujii Yoshiyuki
571	A02-P07	The relation between thermokarst lake sediments, Holocene climate development and ice-wedge patterns in northern Siberia Biskaborn Boris, Schelusner Philipp Herzsuh Ulrike Diekmann Bernhard Hansche Andreas Subetto Dmitry
186	A02-P08	Impact of Interactive Ozone on Climate Reconstruction in an Earth System Model Noda Satoshi, Mizuta Ryo, Deushi Makoto, Kodera Kunihiko, Yoshida Kohei, Kitoh Akio, Murakami Shigenori, Adachi Yukimasa, Yoden Shigeo
498	A02-P09	Variability of trace inorganic species in an ice core from NEEM, Greenland Hirabayashi Motohiro Goto-Azuma Kumiko Wegner Anna Hansson Margareta Twarloh Birthe Motoyama Hideaki Steffensen Jorgen Dahl-Jensen Dorthe
577	A02-P10	Glacial Atlantic Overturning controlled by Ice sheets and Atmospheric Carbon dioxide Abe-Ouchi Ayako
586	A02-P11	Relationship between climatic stability and mean climatic state over the past eight glacial cycles Kawamura Kenji
268	A02-P12	Introduction of "Long-term Plan for Arctic Environmental Research, Theme 6: Future Arctic environment explored from paleoenvironmental records" of Japan Kawamura Kenji

A4: Geospace over and related to the Arctic region

Main Convener: Yasunobu Ogawa

【Oral】

April 27, 14:00–15:30

refere	Time	Number	presentationtitle
568	14:00–14:20	A04–001	Presentation Title: Neutral Dynamics in the Canadian Arctic Upper Atmosphere Ward William, Manson Alan, Shepherd Marianna, Wu Qian, Drummond James
164	14:20–14:35	A04–002	Thermosphere–mesosphere–stratosphere coupling during stratospheric sudden warmings Orsolini Yvan, Limpasuvan Varavut, Kinnison Doug
139	14:35–14:55	A04–003	Multi–Year Analysis of Arctic Gravity Waves Over Alaska Across the Atmosphere and Near Geospace Nielsen Kim, Negale Michael, Collins Richard, Taylor Michael, Johnson Kasey
444	14:55–15:15	A04–004	Long–term trend of the thermosphere caused by anthropogenic increases of greenhouse gasses simulated by the GAIA Miyoshi Yasunobu, Jin Hidekatsu, Fujiwara Hitoshi, Shinagawa Hiroyuki
478	15:15–15:30	A04–005	Long–term trends in ionospheric parameters measured by the EISCAT radars Bjoland Lindis Merete, Belyey Vasyl, Loevhaug Unni Pia, La Hoz Cesar

April 27, 16:00–17:30

584	16:00–16:15	A04–006	The role of energetic particle precipitation in coupling between geospace environment, atmosphere and climate Esa Turunen, Kero Antti, Verronen Pekka, Seppala Annika, Andersson Monika, Salmi Sanna–Maria, Rodger Craig, Clilverd Mark
499	16:15–16:30	A04–007	Geospace Exploration Project: ERG Miyoshi Yoshizumi
396	16:30–16:45	A04–008	Radiation dose of aircrews during a solar proton event without ground–level enhancement Ryuho Kataoka, Yumi Nakagawa, Tatsuhiko Sato
450	16:45–17:00	A04–009	Coronal Behavior before the Large Flare Onset and its Impact on Earth’s environment Imada Shinsuke
565	17:00–17:15	A04–010	CME front and severe space weather Balan Nanan, Skoug R, Tulasi Ram S, Shiohara Kazuo, Otsuka Yuichi, Batista I, Ebihara Yusuke, Nakamura Takuji
574	17:15–17:30	A04–011	An extensive survey of the optical structures of the dayside diffuse aurora Dr. Han Desheng

April 28, 10:45–12:15

474	10:45–11:05	A04–012	EISCAT_3D, A New Incoherent Scatter Radar for Geospace Research in the Nordic Region Heinselman Craig
457	11:05–11:20	A04–013	New horizon of atmospheric and geospace sciences in the Arctic with EISCAT_3D – Japan’s contributions – Miyaoka Hiroshi, Nozawa Satonori, Ogawa Yasunobu, Oyama Shin–ichiro, Nakamura Takuji, Fujii Ryoichi

- 585 11:20-11:35 A04-O14 EISCAT_3D science topics related to the Arctic geospace
Kero Johan, Belova Evgenia, Hedin Jonas, Pellinen-Wannberg Asta, Nilsson Hans
- 576 11:35-11:55 A04-O15 VARSITI – VARIABILITY OF THE SUN AND ITS TERRESTRIAL IMPACT
Shiokawa Kazuo, Georgieva Katya
- 563 11:55-12:15 A04-O16 JAPANESE SOUNDING ROCKET EXPERIMENTS IN THE ARCTIC
Abe Takumi, Saito Yoshifumi, Ishii Nobuaki

【Poster Core Time】 April 28, 17:30-19:00

- 293 A04-P01 Vertical structure of temperature variations in the mesosphere and lower thermosphere region during stratospheric sudden warming
Kim Jeong Han, Geonhwa Jee, Won Young In, Kim Baek MinChoi HyesunKim Seong Joong
- 397 A04-P02 Compound auroral micromorphology: Ground-based high-speed imaging
Ryuho Kataoka, Yoko Fukuda
- 419 A04-P03 VARIATIONS OF TEMPERATURE AND WINDS IN THE MESOSPHERE AND LOWER THERMOSPHERE ABOVE TROMSOE
Nozawa Satonori, Tsuda Takuo, Kawahara Takuya, Saito Norihito, Wada Satoshi, Fujiwara Hithoshi, Ogawa Yasunobu, Takahashi Toru, Suzuki Shin, Kawabata Tetsuya, Hall Chris, Brekke Asgeir, Tsutsumi Masaki, Hibino Tatsuya, Takita Shintaro
- 440 A04-P04 Upper atmosphere cooling over the past 33 years
Ogawa YasunobuMotoba TetsuoBuchert StephanHaggstrom IngemarNozawa Satonori
- 451 A04-P05 NIPR TRAJECTORY MODEL (NITRAM) AND METEOROLOGICAL FIELD DISPLAY SYSTEM
Tomikawa Yoshihiro
- 501 A04-P06 Further observations of 4fce auroral roar
Sato Yuka, Kadokura Akira, Ogawa Yasunobu, Kumamoto Atsushi, Katoh Yuto
- 556 A04-P07 CURRENT STATUS OF UPPER ATMOSPHERE PHYSICS OBSERVATION IN ICELAND IN 2015
Kadokura Akira, Sato Natsuo, Yamagishi Hisao, Tanaka Yoshimasa, Sato Yuka, Taguchi Makoto, Motoba Tetsuo, Hosokawa Keisuke, Bjornsson Gunnlaugur
- 557 A04-P08 IUGONET tools for interdisciplinary study on upper atmosphere
Tanaka Yoshimasa, Abe Shuji, Koyama Yukinobu, Shinbori Atsuki, Umemura Norio, Yagi Manabu, Yatagai Akiyo, UeNo Satoru
- 561 A04-P09 Periodic variation characteristics of the high-latitude tropopause over Point Barrow (71.3° N, 156.8° W)
WANG Rui, ZHANG Shaodong, YANG Huigen
- 564 A04-P10 Effects of cosmic ray input on clouds and climate in Antarctica
Anil Kumar C, Balan Nanan, Jeni Victor N, Selvaraj C, Nair K, Panneerselvam C, Elango P, Jeeva K, Dhar A, Gurubaran S, Pathan B
- 567 A04-P11 LONG TERM METEOR WIND RADAR OBSERVATIONS IN ARCTIC NORWAY
Tsutsumi Masaki, Hall Chris
- 569 A04-P12 ROSMIC: A project in the SCOSTEP VarSITI Program
Ward William, Luebken Franz-Josef, Seppala Annika

Study on generation mechanisms of a sporadic sodium layer above Tromsø, Norway during a night of the high aurora activity

Takahashi Toru, Nozawa Satonori, Tsuda Takuo, Ogawa Yasunobu, Norihito Saito, Hidemori Takehiro, Kawahara Takuya, Hall Chris, Fujiwara Hitoshi, Brekke Asgeir, Tsutsumi Masaki, Wada Satoshi, Kawabata Tetsuya, Oyama Shin-ichiro, Fujii Ryoichi

A5: The Climatic Threat from Arctic Offshore Methane

Main Convener: Peter Wadhams

【Oral】

April 30, 10:45–12:15

refere	Time	Number	presentationtitle
436	10:45–11:15	A5–001	DECADAL PROGRESS IN QUANTITATIVE ESTIMATE OF METHANE FLUXES FROM THE EAST SIBERIAN ARCTIC SHELF Shakhova Natalia, Semiletov Igor, Yusupov Vladimir, Salyuk Anatoly, Salomatin Alexander, Chernykh Denis, Kosmach Denis, Gustafsson Orjan
298	11:15–11:30	A5–002	Evolving ice and ocean conditions in the East Siberian and Laptev Seas relevant to methane emissions Wadhams Peter
255	11:30–11:45	A5–003	GAS HYDRATE STABILITY ZONE ASSOCIATED WITH SUBSEA PERMAFROST THAWING IN THE CANADIAN BEAUFORT SEA INFERRED FROM MARINE HEAT FLOW MEASUREMENTS Kim Young Gyun, Jin Young Keun, Hong Jong Kuk
448	11:45–12:00	A5–004	RELATIONSHIP BETWEEN CH ₄ AND CO ₂ IN THE SURFACE SEAWATER IN THE WESTERN ARCTIC OCEAN Sasano Daisuke, Ishii Masao, Kosugi Naohiro, Murata Akihiko, Uchida Hiroshi, Toyoda Sakae, Yamada Keita, Kudo Kushi, Yoshida Naohiro, Mifune Takahisa, Yamamoto-Kawai Michiyo, Yoshikawa-Inoue Hisayuki, Nishino Shigeto, Kikuchi Takashi
581	12:00–12:15	A5–005	Methanogenetic diversity and activity in the forehead of Austre Lovénbreen and Midre Lovénbreen glacier Ma Hongmei, Zhang Yu, Chen Xinran, Yan wenkai

A6: Climate and ecosystem vulnerability in the terrestrial northern high-latitudes

Main Convener: Iijima Yoshihiro

【Oral】

April 29, 13:45–15:15

refel	Time	Number	presentationtitle
357	13:45–14:00	A6–001	Monitoring Arctic Greenhouse Gas Emissions Using Top–Down Approaches Bruhwiler Lori, Dlugokencky Edward
74	14:00–14:15	A6–002	Regional scaling of airborne flux measurements over Arctic regions Serafimovich Andrei, Metzger Stefan, Hartmann Joerg, Kohnert Katrin, Wieneke Sebastian, Sachs Torsten
153	14:15–14:30	A6–003	Environmental controls of methane fluxes from an Arctic river floodplain Budishchev Artem, van Huissteden Ko, Dolman Han
79	14:30–14:45	A6–004	Changes in Arctic and boreal terrestrial ecosystems from 1981–2010: comparisons between a global Earth system model and observations Diehl Thomas, Cescatti Alessandro, Duveiller Gregory, Alkama Romain
291	14:45–15:00	A6–005	Surface energy and green–house–gas flux measurements at a tussock tundra site, Council, Alaska PARK SANG JONG, Yoo JAE IL, CHAE NAM YI, LEE BANG YONG
412	15:00–15:15	A6–006	A stochastic model for the polygonal tundra based on Poisson–Voronoi Diagrams Cresto Aleina Fabio Brovkin Victor, Muster Sina, Boike Julia, Kutzbach Lars, Sachs Torsten, Zuyev Sergei

April 29, 15:45–17:15

215	15:45–16:00	A6–007	Interannual variability of carbon cycle components in the permafrost–dominated ecosystems, Eastern Siberia Maximov Trofim, Kononov Alexander, Maksimov Ayaal, Dolman Han, van Huissteden Ko, Sugimoto Atsuko, Ohta Takeshi
257	16:00–16:15	A6–008	EFFECT OF N FERTILIZATION AND ROOT CUT TREATMENT ON SOIL RESPIRATION IN A LARIX GMELINII FOREST IN CENTRAL SIBERIA Morishita Tomoaki, Matsuura Yojiro, Kajimoto Takuya, Osawa Akira, Zyryanova Olga, Prokushkin Anatoly
101	16:15–16:30	A6–009	Environmental factors regulating soil organic carbon storage in permafrost ecosystems Fujii Kazumichi, Matsuura Yojiro, Osawa Akira
529	16:30–16:45	A6–010	Processes Impacting Atmosphere–Surface Exchanges at Arctic Terrestrial Sites Persson Ola, Grachev Andrey, Konopleva Elena, Cox Chris, Stone Robert, Crepinsek Sara, Shupe Matthew, Uttal Taneil
117	16:45–17:00	A6–011	Central Yakutia as one of key areas for studying rapid permafrost changes under current climatic conditions Fedorov Alexander, Konstantinov Pavel, Desyatkin Roman, Maximov Trofim, Iijima Yoshihiro, Park Hotaek, Iwahana Go, Hiyama Tetsuya, Ulrich Mathias, Costard Francois, Sejuorne Antoine, Skorve Johnny, Rouyet Line, Desyatkin Alexey, Basharin Nikolay
256	17:00–17:15	A6–012	Enhancement of hydroclimatic impacts on permafrost environment in eastern Siberia Iijima Yoshihiro, Park Hotaek, Fedorov Alexander

April 30, 10:45–12:15

- 231 10:45–11:00 A6–O13 Memory Effects for Existence of Surface Permafrost in Eastern Siberia under Warming Trend
Sato Hisashi, Iwahana Go, Ohta Takeshi
- 399 11:00–11:15 A6–O14 LONG–TERM VARIATION OF ANOMALY IN ABOVEGROUND BIOMASS IN CIRCUMPOLAR BOREAL FORESTS
OSAWA AKIRA, HAGA YUMA, FUJII SOICHIRO, KURACHI NAHOKO
- 118 11:15–11:30 A6–O15 DENDROCHRONOLOGICAL STUDIES OF THERMOKARST DEPRESSIONS DEVELOPMENT IN CENTRAL YAKUTIA (NOTRH–EASTERN RUSSIA)
Nikolaev Anatoly
- 194 11:30–11:45 A6–O16 Effect of seasonal thawing depth increase on water balance in cryolithozone
Desyatkin Roman, Desyatkin Alexey
- 372 11:45–12:00 A6–O17 Studies of soil carbon dioxide fluxes in boreal taiga larch forests in Yakutia
Kononov Alexander, Maximov Trofim, Petrov Roman, Maksimov Ayaal
- 522 12:00–12:15 A6–O18 Is tundra productivity responsive to changes in sea ice extent in the Arctic?
Macias–Fauria Marc, Forbes Bruce

April 30, 13:45–15:15

- 47 13:45–14:00 A6–O19 GRENE–TEA Model Intercomparison Project (GTMIIP) Stage 1
Saito Kazuyuki, Miyazaki Shin, Mori Junko, Yamazaki Takeshi, Ise Takeshi, Sueyoshi Tetsuo
- 244 14:00–14:15 A6–O20 Permafrost and hydrological response to the observed and potential climate change in the Russian Arctic discontinuous permafrost zone
Lebedeva Liudmila, Semenova Olga, Tananaev Nikita
- 159 14:15–14:30 A6–O21 “Examining the contribution of reproductive traits to Arctic shrub expansion patterns using spatially–explicit simulation modelling”
Naito Adam, Cairns David, Feldman Richard, Grant William
- 235 14:30–14:45 A6–O22 Forward and inverse modelling of greenhouse gases in the Arctic and subarctic regions
Belikov Dmitry, Shamil Maksyutov, Takagi Hirosh, iGanshin Alexander, Zhuravlev Ruslan
- 214 14:45–15:00 A6–O23 RECENT CHANGES IN TERRESTRIAL CO2 FLUXES IN SIBERIA INFERRED FROM MULTIPLE BOTTOM–UP ESTIMATIONS
Ichii Kazuhito, Ueyama Masahito, Kondo Masayuki, Ito Akihiko, Kato Tomomichi, Sato Hisashi, Sasai Takahiro, Kobayashi Hideki, Yanagi Yuji, Saigusa Nobuko
- 213 15:00–15:15 A6–O24 Tundra burning in 2007: did sea ice retreat matter?
Alexeev Vladimir, Euskirchen Eugenie, Cherry Jessica, Busey Robert

【Poster Core Time】 April 29, 17:30–18:45

- 9 A6–P01 Effect of thaw depth on fluxes of CO2 and CH4 in manipulated Arctic coastal tundra of Barrow, Alaska
Kim Yongwon, Oechel Walter
- 17 A6–P02 Accumulation of carbon and nitrogen in vegetation and soils of deglaciated area and mudboils in Ellesmere Island, high–Arctic Canada

- Osono Takashi, Mori Akira, Uchida Masaki, Kanda Hiroshi
- 65 A6-P03 Vegetation mapping and estimation of regional CH₄ emission for taiga-tundra boundary in east Siberia
Morozumi Tomoki, Bragin Ivan, Shingubara Ryo, Takano Shinya, Tei Shunsuke, Maximov Trofim, Sugimoto Atsuko
- 98 A6-P04 Linkage between phototroph community structures and the photosynthesis of differently pigmented groups of biological soil crusts in a High Arctic glacier foreland, Svall
Tanabe Yukiko, Uetake Jun, Masumoto Shota, Uchida Masaki
- 115 A6-P05 METHANE EXCHANGE IN A POORLY-DRAINED BLACK SPRUCE FOREST OVER PERMAFROST OBSERVED WITH THE EDDY COVARIANCE TECHNIQUE
Iwata Hiroki, Harazono Yoshinobu, Ueyama Masahito, Sakabe Ayaka, Nagano Hirohiko, Kosugi Yoshiko, Takahashi Kenshi, Kim Yongwon
- 175 A6-P06 INTERANNUAL VARIATION IN CH₄ EFFLUX AT TAIGA-TUNDRA BOUNDARY ON THE LOWLAND OF INDIGIRKA RIVER
Shingubara Ryo, Sugimoto Atsuko, Murase Jun, Tei Shunsuke, Takano Shinya, Morozumi Tomoki, Iwahana Go, Maximov Trofim
- 193 A6-P07 CHANGE IN PHOTOSYNTHETIC CAPACITIES OF EARLY SUCCESSIONAL ECOSYSTEM AFTER WILDFIRES IN INTERIOR ALASKA
Tahara Narumi, Ueyama Masahito, Nagano Hirohiko, Iwata Hiroki, Harazono Yoshinobu
- 238 A6-P08 AN IMPORTANCE OF BRANCH-BRANCH INTERACTION WITHIN CROWN OF OPEN-GROWN BLACK SPRUCE IN CENTRAL ALASKA
Shirota Tetsuoh, Yasue Koh, Osawa Akira
- 251 A6-P09 CH₄ emission from different stages of thermokarst in Central Yakutia, Russia
Desyatkin Alexey
- 275 A6-P10 Spatial variation of snow cover in Indigirka lowland observed in spring 2014
Takano Shinya, Tei Shunsuke, Sugimoto Atsuko, Maximov Trofim
- 278 A6-P11 The effects of climate manipulation on soil organic carbon characteristics in northeast Greenland
Jung Ji Young, Michelsen Anders, Schmidt Niels, Lee Yoo Kyung
- 286 A6-P12 Influence of the Thawing Permafrost on methane diffusion flux from lakes in the Alaskan Arctic Zone
Sasaki Masafumi
- 314 A6-P13 Spatial patterns and inter-tree interaction in a mature Larix sibirica stand at the northern ecotone in Mongolia
Saito Dai, Shirota Tetsuoh, Tanabe Tomoko, Yasue Koh, Baatarbileg Nachin
- 325 A6-P14 Branching Properties of Declining Larix sibirica Trees in Northern Mongolian Boreal Forest
TANABE Tomoko, SHIROTA Tetsuoh, SAITO Dai, YASUE Koh, BAATARBILEG Nachin
- 360 A6-P15 The rate of permafrost CO₂ and methane release under aerobic and anaerobic conditions using a specially designed lower temperature controlled incubation system and
yonemura seiichiro
- 442 A6-P16 Energy Balance and Carbon Exchange of Larch Forest in Central Yakutia
Petrov Roman
- 460 A6-P17 Evapotranspiration and carbon dioxide fluxes over larch forests with different soil water condition at eastern Siberia
Kotani Ayumi, Ohta Takeshi, Maximov Trofim

Terrestrial ecosystems of the Novosibirsk archipelago (Arctic ocean, Russia): current status and new threats
Okhlopkov Innokentiy, Kolodeznikov Vasiliy, Desyatkin Roman, Tatsuzava Shirow, Solomonov Nikita

B1: Arctic Climate Change and Potential Mid-latitude Weather Linkages: Large-scale Atmospheric Circulation and Storm Track Dynamics

Main Convener: James E. Overland

【Oral】

April 29, 10:45–12:15

reference Number presentation title

28 B01-O01 DYNAMICS OF THE ARCTIC OSCILLATION AS A DOMINANT INTERNAL VARIABILITY AND A POSSIBLE LINK TO THE WARMING HIATUS

Tanaka Hiroshi

56 B01-O02 Is the Jet Stream Becoming Weaker in Response to Rapid Arctic Warming?

Francis Jennifer, Vavrus Stephen

77 B01-O03 Regional and global interactions between Arctic sea ice and the atmospheric circulation

Dethloff Klaus, Handorf Doerthe, Jaiser Ralf, Rinke Annette, Crasemann Berit, Dorn Wolfgang

172 B01-O04 Arctic impacts on mid-latitude weather and climate: The research challenge

Walsh John

104 B01-O05 Intensified Linkage Between Arctic Climate Change and Midlatitude Extreme Events: Role of Atmospheric Circulation and Storm Track Dynamics

Zhang Xiangdong, Basu Soumik, Lu Chuhan, Wang Zhaomin, Guan Zhaoyong

April 29, 13:45–15:15

46 B01-O06 A negative phase shift of the winter AO/NAO due to the recent Arctic sea-ice reduction in late autumn

Nakamura Tetsu, Yamazaki Koji, Iwamoto Katsushi, Honda Meiji, Ukita Jinro, Miyoshi Yasunobu, Ogawa Yasunobu

166 B01-O07 Impact of snow cover and sea ice on sub-seasonal to seasonal predictions in the Arctic

Orsolini Yvan, Senan Retish, Balsamo Gianpaolo, Weisheimer Antje, Vitart Frederic, Doblas Reyes Francesco

14 B01-O08 RECENT RAPID ARCTIC CHANGE AND ITS INFLUENCE ON EAST ASIA WEATHER

Kim Seong Joong

506 B01-O09 SPATIAL-TEMPORAL PATTERNS OF THE COLD SURGE EVENTS IN CHINA IN RECENT 50 YEARS AND ITS RELATIONSHIP WITH ARCTIC SEA ICE

Huang Fei, Zhu Chenyu

148 B01-O10 Greenland blocking as a mechanism for recent Arctic/mid-latitude weather linkages

Overland James, Hanna Edward

April 29, 15:45–17:15

127 B01-O11 Robust Arctic sea-ice influence on the frequent Eurasian cold winters in past decades

B1: Arctic Climate Change and Potential Mid-latitude Weather Linkages: Large-scale Atmospheric Circulation and Storm Track Dynamics

Main Convener: James E. Overland

【Oral】

April 29, 10:45–12:15

reference Number presentation title

- 28 B01-O01 DYNAMICS OF THE ARCTIC OSCILLATION AS A DOMINANT INTERNAL VARIABILITY AND A POSSIBLE LINK TO THE WARMING HIATUS
Tanaka Hiroshi
- 56 B01-O02 Is the Jet Stream Becoming Weaker in Response to Rapid Arctic Warming?
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- 77 B01-O03 Regional and global interactions between Arctic sea ice and the atmospheric circulation
Dethloff Klaus, Handorf Doerthe, Jaiser Ralf, Rinke Annette, Crasemann Berit, Dorn Wolfgang
- 172 B01-O04 Arctic impacts on mid-latitude weather and climate: The research challenge
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April 29, 15:45–17:15

- 127 B01-O11 Robust Arctic sea-ice influence on the frequent Eurasian cold winters in past decades

Masato Mori, Masahiro Watanabe, Hideo Shiogama, Jun Inoue, Masahide Kimoto

253 B01-O12 The extreme European cold spell in 2011/12 winter. Part I: Roles of Rossby wave trains and storm track feedback

Wang Lin, Nakamura Hisashi, Nishii Kazuaki

167 B01-O13 Potential Arctic Impacts on the North Atlantic Jet Stream

Hall Richard, Hanna Edward

326 B01-O14 The effect of downwelling longwave radiation on Arctic summer sea ice

Kapsch Marie

496 B01-O15 The structure and development of Arctic cyclones

Aizawa Takuro, Tanaka Hiroshi

【Poster】 April 29, 17:30-19:00

26 B01-P01 AIR TEMPERATURE AND PRECIPITATION ON THE KAFFIØRA PLAIN AND THE WALDEMAR GLACIER (NW SPITSBERGEN) FROM 1978 TO 2014

Przybylak Rajmund, Arazny Andrzej

51 B01-P02 Role of Sea Ice Reduction in Eurasian Wintertime Cooling

Outten Stephen, Esau Igor

109 B01-P03 The Greenland Blocking Index 1948-2014: A Key Indicator of Arctic-Mid Latitude Weather/Climate Coupling?

Hanna Edward

209 B01-P04 Effects of the recent Arctic seaice reduction on the vertical coupling process between the troposphere and stratosphere

Miyoshi Yasunobu, Ogawa Yasunobu, Tomikawa Yoshihiro, Ukita Jinro, Nakamura Tetsu, Yamazaki Koji, Honda Meiji, Iwamoto Katsushi

217 B01-P05 Atmospheric response to anomalous sea ice in the Sea of Okhotsk

Nishii Kazuaki, Nakamura Hisashi, Nakamura Testu

220 B01-P06 Persistent cooling of the polar stratosphere in 2011 winter and spring

Nishii Kazuaki, Nakamura Hisashi, Orsolini Yvan

240 B01-P07 Influence of the Gulf Stream on the Barents Sea ice retreat and Eurasian coldness during early winter

Sato Kazutoshi, Inoue Jun, Watanabe Masahiro

279 B01-P08 Impact of zonal wind changes on the instability rates of planetary and baroclinic waves

Crasemann Berit, Tanaka Hiroshi, Dethloff Klaus, Handorf Doerthe, Jaiser Ralf

237 B01-P09 A study on the cyclogenesis of the Arctic cyclone from the perspective of quasi-geostrophic potential vorticity

Asai Hiroaki, Inoue Jun, Sato Naoki

368 B01-P10 THE EXTREME EUROPEAN COLD SPELL IN 2011/12 WINTER. PART II: THREE-DIMENSIONAL STRUCTURE OF ANOMALIES AND IMPORTANCE OF ENERGY CONVERSION FOR THEIR MAINTENANCE

Nakamura Hisashi

515 B01-P11 THE IMPORTANCE OF PHYSICAL PARAMETERIZATION IN THE WRF MODEL TO REPRODUCE ATMOSPHERIC DYNAMICS AND BLACK CARBON TRANSPORT IN THE ARCTIC: A SENSITIVITY STUDY.

Cavazos-Guerra Carolina, Lauer Axel

B2: Current and Future Observing Strategies for Understanding the Evolving Arctic Climate and Ecological System

Main Convener: Gijs de Boer

【Oral】

April 27, 14:00–15:30

reference Number presentation title

356 B02–001 Enhancing process understanding in the coupled Arctic atmosphere–ocean–ice system through MOSAiC
Shupe Matthew

485 B02–002 Towards a coordinated Research and Monitoring Program for Ny–Ålesund
Pedersen Christina, Geir Gabrielsen

543 B02–003 The Global Cryosphere Watch (GCW) surface observations programme CryoNet
Schoener Wolfgang, Goodison Barry, Key Jeff, Fierz Charles, Snorrason Arni

330 B02–004 The Svalbard Integrated Arctic Earth Observing System (SIOS); Implementation and main assets of the SIOS Knowledge Centre
Oerbaek Jon, Vitale Vito, Misund Ole, Biebow Nicole, Shin Hyoung, Holmen Kim, Andersen Bo, Glowacki Piotr, Ellis Evans Cynan, Priamikov Sergei, Roenneberg Ragnhild, Olseng Christine, Bye Bente

438 B02–005 OPENING THE ARCTIC AIRSPACE FOR UNMANNED AIRCRAFT
Storvold Rune, Sweett Clifford, Reiersen Lars Otto

April 27, 16:00–17:30

348 B02–006 International Arctic Systems for Observing the Atmosphere (IASOA) –Creating a Collaboration Platform for Pan–Arctic Research
Starkweather Sandra, Uttal Taneil

277 B02–007 Tracing arctic hydrology with observations of water vapor isotopes from in situ, airborne, and satellite platforms
Cherry Jessica

319 B02–008 An Atmosphere Flagship Programme for Ny–Aalesund, Svalbard and beyond
Neuber Roland, Pedersen Christina

292 B02–009 Ship–based atmospheric and sea–state measurements to support the Pacific Arctic Group (PAG) climate observing system
Uttal Taneil, Kim Joo Hong, Inoue Jun, Makshtas Alexander, Persson Ola, Wiacek Aldona, Strong Kimberly, Crane Kathy, Shupe Matt, Park Sang Jong

309 B02–010 Impact of radiosonde observation on a summertime Arctic cyclone formation forecast
Yamazaki Akira, Inoue Jun, Dethloff Klaus, Maturilli Marion, Konig Langlo Gerd

April 28, 10:45–12:15

- 306 B02–O11 Arctic Ocean Boundary Array: cornerstone of Arctic monitoring
Bacon Sheldon, Tsubouchi Takamasa, Aksenov Yevgeny
- 161 B02–O12 The Distributed Biological Observatory: A Latitudinal Detection Array for Tracking Ecosystem Change in the Pacific Arctic
Grebmeier Jacqueline, Cooper Lee, Frey Karen, Kikuchi Takashi, Moore Sue, Vagle Svein
- 84 B02–O13 The Pacific Arctic Group Climate Observing System: An international effort to understand the causes and consequences of sea ice loss in the ‘Hot Spot’ of the Arctic Ocean
Cho Kyoung Ho, He Jianfeng, Kang Sung Ho, Kim Joo Hong, Melling Humfrey, Ostrovskiy Aleksey, Panteleev Gleb, Pickart Robert, Polyakov Igor, Shimada Koji, Uttal Taneil, Williams William, Yamaguchi Hajime, Zhao Jinping, Wang Jia
- 137 B02–O14 Year–long, daily–scale ecosystem observations under perennial ice cover in the Arctic Ocean
Laney Samuel, Toole John, Krishfield Richard, Timmermans Mary Louise
- 170 B02–O15 SIZONet: Multi–purpose, multi–platform observations to inform responses to an Arctic sea ice cover in transformation
Eicken Hajo, Mahoney Andrew, Dammann Dyre, Jones Joshua, Hendricks Stefan, Fukamachi Yasushi, Ohshima Kay, Haas Christian, Gerland Sebastian, Makshtas Alexandr

April 28, 13:45–15:15

- 52 B02–O16 A world class terrestrial research infrastructure: bringing the scientific community together in remote, cold regions
Johansson Margareta, Callaghan Terry
- 152 B02–O17 Building a multi–disciplinary observatory in the Lower Yenisei region (Igarka Geocryology Lab)
Tananaev Nikita, Teisserenc Roman
- 320 B02–O18 SPECIALLY PROTECTED NATURE AREAS OF NORTHEAST EURASIA AS POSSIBLE CENTERS OF KNOWLEDGE ON CONSERVATION OF ARCTIC ECOSYSTEMS STABILITY
Solomonov Nikita, Okhlopkov Innokentiy, Germogenov Nikolai, Isaev Arkadiy, Tatsuzava Shirow, Vladimirtseva Maria, Desyatkin Roman

【Poster】 April 28, 17:30–19:00

- 332 B02–P01 Svalbard Integrated Arctic Earth Observing System (SIOS): A research infrastructure for Arctic Earth System Science
Oerbaek Jon, Christine Olseng, Roenneberg Ragnhild, Bente Bye, Kaja Hoevding, Kresse Louisa
- 106 B02–P02 Herbivory Network: an international, collaborative effort to study herbivory in northern and alpine environments
Barrio Isabel C, Bueno C Guillermo, Hik David S, Jonsdottir Ingibjorg Svala, Morsdorf Martin A, Ravolainen Virve T
- 308 B02–P03 Arctic Ocean Boundary Array: methods, and modelled seasonality of fluxes and storage

Bacon Sheldon, Aksenov Yevgeny

407 B02-P04 Arctic sea ice monitoring and research through Indigenous and community-based observations

Mette Kaufman, Eicken Hajo, Pulsifer Peter, Holak Irene, Sheffield Betsy

342 B02-P05 ICE-ARC: Ice, Climate, and Economics – Arctic Research on Change – EU funded project

Ford Elaina, Wilkinson Jeremy

B3: Changing permafrost and its impact on the physical, ecological, economic and cultural Earth system

Main Convener: Ylva Sjöberg

【Oral】

April 29, 10:45–12:15

reference Number presentation title

Environmental History of Yakutia and the Permafrost:

132 B3–001 Rural Residents' Perceptions of the Permafrost and Its Role in Everyday Life

Vinokurova Liliia

130 B3–002 The Limit of Pastoral Adaptation to Permafrost Region under Global Warming: The Sakha People in the middle basin of Lena River

Takakura Hiroki

B3–003 Towards systematic approaches for interdisciplinary global change research: The alaskan permafrost socio-ecological system as case in point

Susan A Crate

82 B3–004 Climate-Induced Changes in Stability of Russian Urban Infrastructure Built on Permafrost

Shiklomanov Nikolay, Streletskiy Dmitry

Panel: Working across disciplinary borders

Susan Crate, Hiroki Takakura, Joachim Otto Habeck

April 29, 13:45–15:15

518 B3–005 INITIAL CONCEPTUALIZATION AND APPLICATION OF ARCTIC TUNDRA LANDSCAPE EVOLUTION USING THE ALASKA THERMOKARST MODEL

Bolton W

5 B3–006 Permafrost Research Priorities: A roadmap for the future of permafrost research

Lantuit Hugues, Allard Michel, Guglielmin Mauro, Johansson Margareta, Kraev Gleb, Krautblatter Michael, Krinner Gerhard, Schuur Edward, Sjöberg Ylva, Baeseman Jenny, Schollaen Karina

531 B3–007 The International Permafrost Association: current initiatives for cryospheric research

Schollaen Karina, Lewkowicz Antoni, Christiansen Hanne, Romanovsky Vladimir, Lantuit Hugues, Schrott Lothar, Sergeev Dmitry, Wei Ma

570 B3–008 Metadata statistics of the new Global Terrestrial Network for Permafrost database

Biskaborn Boris, Lanckman Jean-Pierre, Lantuit Hugues, Johannson Haldor

Panel: Future challenges for the permafrost research community

April 29, 15:45–17:15

- 497 B3–O09 Landslide activity peak of the late 1980' s in Central Yamal Peninsula, Russia, observed from time series satellite imagery
Kumpula Timo, Mikhaylova Tatiana, Verdonen Mariana, Forbes Bruce
- 432 B3–O10 TEMPERATURE, SNOW, PERMAFROST: HETEROGENEITY OF CHANGE IN SHRUB GROWTH ON THE ARCTIC TUNDRA
Hallinger Martin, Tape Ken, Wilmsking Martin
- 424 B3–O11 Thermokarst lake sediment as indicator of climate variations: Precise environmental archive or wishful thinking?
Fritz Michael, Lenz Josefine, Gajewski Konrad, Frenzel Peter, Unkel Ingmar, Lantuit Hugues
- 548 B3–O12 Detection of microorganisms in ancient ice wedges in the Central Yakutia (Russia)
Elina Karnysheva, Anatoly Brushkov, Maria Cherbunina, Svetlana Filippova, Natalia Surgucheva, Valerij Galchenko
- 470 B3–O13 MODERN TALIK FORMATION ON IV TERRACE OF THE LENA RIVER, CENTRAL YAKUTIA
Gagarin Leonid
- 135 B3–O14 Permafrost carbon degradation at the land–ocean–interface
Tanski George, Fritz Michael, Lantuit Hugues

【Poster】 April 29, 17:30–19:00

- 33 B3–P01 Permafrost and indigenous land use in the Northern Urals: Komi and Nenets reindeer husbandry
Habeck Joachim, Istomin Kirill
- 35 B3–P02 Mapping Permafrost–Related Terrain Features with PurVIEW
McCuaig Shirley
- 150 B3–P03 UNDERSTANDING THERMOKARST LAKE DYNAMICS IN ARCTIC ALASKA: CASE STUDIES BASED ON SEDIMENT CORES
Lenz Josefine, Wetterich Sebastian, Jones Benjamin M, Grosse Guido
- 234 B3–P04 Simulating a role of natural fire disturbance on the soil carbon storage of boreal forest and tundra ecosystems in Alaska
Wang Xin
- 254 B3–P05 Intrinsic Chemical Conversion of Heavy Metal in Polar Region
KIM KITAE
- 305 B3–P06 Size and frequency distribution of thermokarst lakes in the eastern Siberia.
Saito Hitoshi, Iijima Yoshihiro, Ulrich Mathias

B4: Arctic snow cover changes and their consequences

Main Convener: Terry V. Callaghan

【Oral】

April 30, 10:45–12:15

- | reference Number | presentation title |
|------------------|---|
| 391 B04–001 | Arctic snow cover changes and their consequences: Developing a road map for research and long-term monitoring
Callaghan Terry, Johansson Margareta |
| 552 B04–002 | CLOUD COVER DICTATES SPRING SNOW COVER, BUT SURFACE TEMPERATURE CHANGE IS RELATED TO BOTH
Williamson Scott |
| 371 B04–003 | Snow microstructure and modelling in support of permafrost science
Proksch Martin, Gouttevin Isabelle, Langer Moritz, Ebner Primin, Fierz Charles, Schneebeli Martin |
| 68 B04–004 | Impacts of changing winter snow conditions for Arctic ecosystems
Bokhorst Stef |
| 409 B04–005 | Snow cover effects on High Arctic plant growth and ecosystem respiration.
Cooper Elisabeth
Questions and discussion |

April 30, 13:45–15:15

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|-------------|--|
| 595 B04–006 | Effects of changing snow conditions on reindeer husbandry in Arctic Sweden
Rosqvist Gunhild, Inga Niila |
| 466 B04–007 | Thermal and hydrological controls over organic matter redistribution in glacial snow cover
Koziol Krystyna, Brown Emma, Rutter Nick, Moggridge Helen, Hodson Andrew |
| 527 B04–008 | CHEMISTRY OF SNOW COVER AND ACIDIC SNOWFALL DURING A SEASON WITH HIGH LEVEL AIR POLLUTION AT HANSBREEN GLACIER, SPITSBERGEN
MIGALA Krzysztof |
| 537 B04–009 | Snow cover in Russian Arctic cities due to climate change
Ivanov Mikhail |

【Poster】 April 29, 17:30–19:00

- 428 B04-P01 Scanning Pan-Arctic Snow Conditions of Freezing and Melting for Analyzing Regional and Interannual Changes, and application to Field Observation Planning
Alimasi Nuerasimuguli, Enomoto Hiroyuki, Sugiura Konosuke , Hori Masahiro, Kameda Takao
- 421 B04-P02 MEASUREMENTS OF CHEMICAL COMPOSITIONS IN THE SNOW COVER AT MT. TATEYAMA, JAPAN
Watanabe Koichi
- 114 B04-P03 Solar heating in snowpack and radiative forcing by snow impurities evaluating by a physically based snow albedo model
Aoki Teruo, Kuchiki Katsuyuki, Niwano Masashi, Matoba Sumito, Kodama Yuji
- 505 B04-P04 Russia-Japan collaborative studies on geographic and ecological changes of large mammal fauna in the arctic and sub-arctic Yakutia.
TATSUZAWA Shirow, Okhlopkov Innokentiy, Solomonov Nikita, Nikolaev Egor, Kirillin Ruslan, Kirillin Egor

B5: Remote Sensing of the Arctic System

Main Convener: Jessica Cherry

【Oral】

April 29, 10:45–12:15, SUB-THEME: Atmospheric Science

reference number presentation title

95 B05-001 Extreme Fire Weather Conditions for Wildland Fires in Alaska
Hayasaka Hiroshi

383 B05-002 Use of surface-based remote sensors for understanding aerosol-cloud interactions at high latitudes
de Boer Gijs, Shupe Matthew, Turner David, Garrett Timothy, Zhao Chuanfeng

155 B05-003 EUMETSAT OSISAF irradiance products
Godoy OEystein

299 B05-004 Climatology of polar lows in the Nordic and Barents seas over 1995–2008 based on satellite data
Bobylev Leonid, Zabolotskikh Elizaveta, Smirnova Julia, Golubkin Pavel, Chapron Bertrand

582 B05-005 Ultra-stable, high power sodium temperature/wind lidar deployed at EISCAT radar site, Norway (69.6°N, 19.2°E)
Kawahara Takuya, Nozawa Satonori, Saito Norihito, Tsuda Takuo, Kawabata Tetsuya, Wada Satoshi

358 B05-006 The use of GPS RO for monitoring Arctic boundary layer properties
Ganeshan Manisha, Wu Dong

April 29, 13:45–15:15, SUB-THEME: Biology and Phenology

122 B05-007 In situ and satellite observations for accurate detection of plant phenology and extent of snow cover in boreal forests
Nagai Shin, Sugiura Konosuke, Tei Shunsuke, Kobayashi Hideki, Suzuki Rikie

93 B05-008 Recent temporal dynamics of arctic tundra vegetation within the context of spatial biomass-temperature relationships
Epstein Howard, Bhatt Uma, Reynolds Martha, Walker Donald, Reichle Leah

13 B05-009 MODIS-based mapping of the growing season and plant production in relation to climate on Svalbard for the 2000–2014 period
Karlsen Stein Rune, Hogda Kjell, Johansen Bernt, van der Wal Rene

304 B05-010 OCEAN SURFACE TEMPERATURE TREND AND ITS IMPACTS ON PHYTOPLANKTON BIOMASS IN THE ARCTIC AND SUBARCTIC REGIONS
Siswanto Eko

272 B05-011 THE EXPERIENCE OF UAV'S USE FOR ECOSYSTEM MONITORING ON THE SOLOVETSKY ISLAND (WHITE SEA)

Andrey Medvedev

34 B05-O12 Determination of biophysical provinces in the Beaufort Sea using remote sensing

Ben Mustapha Selima

April 29, 15:45-17:15, SUB-THEME: Snow and Ice

500 B05-O13 ESTIMATION OF THE ARCTIC SEA THICKNESS USING THE SATELLITE MICROWAVE RADIOMETER AMSR2

Tateyama Kazutaka

37 B05-O14 Rapid Reduction of Arctic Sea Ice and its Impacts on Bromine, Ozone, and Mercury Processes

Nghiem Son

245 B05-O15 Optimization of Fractional Snow Cover Algorithms for Optical Remote Sensing

Appel Igor

495 B05-O16 DETECTION OF MELT PONDS ON ARCTIC SEA ICE FROM TERRASAR-X DUAL-POLARIMETRIC DATA

Han Hyangsun, Kim Miae, Lee Sanggyun, Shin Minso, Jang Eunna, Im Jungho, Kim Jinwoo, Kim Dukjin

264 B05-O17 Quasi-daily pan-Arctic sea-ice lead detection from MODIS thermal infrared imagery

Willmes Sascha, Heinemann Guenther

53 B05-O18 High accuracy sea ice velocity data sets from AMSR series and their applications to understanding/forecasting of sea ice variations

Shimada Koji

April 30, 10:45-12:15, SUB-THEME: Hydrology and Permafrost

102 B05-O19 Vertical movements of frost mounds in sub-arctic permafrost regions detected using geodetic survey and satellite interferometry

Beck Inga, Ludwig Ralf, Bernier Monique, Strozzi Tazio, Boike Julia

78 B05-O20 The variation of high latitude water bodies along Alaska coastal area over different permafrost types

Wang Zhuosen, Roman Miguel, Tan Bin, James Tilton

80 B05-O21 ICE AND SNOW REGIME OF EURASIAN WATER BODIES FROM SATELLITE AND IN SITU OBSERVATIONS

Kouraev Alexei V, Zakharova Elena A, Naumenko Michail A, Shimaraev Michail N, Kostianoy Andrey G, Suknev Andrey Ya, Remy Frederique

103 B05-O22 Combining optical and radar remote sensing data for the study of organic transport in "thermokarst lake - catchment" systems of Russian arctic

Dvornikov Yury, Leibman Marina, Heim Birgit, Bartsch Annett, Hubberten Hans Wolfgang

550 B05-O23 REMOTE SENSING OF WATER TRACKS IN ALASKA'S ARCTIC

Trochim Erin

April 30, 13:45–15:15, SUB-THEME: Remote Sensing Synthesis Activities

- 317 B05–O24 The problems of estimation of bioproductivity in the Eastern Arctic by the remote sensing methods
Salyuk Pavel, Stepochkin Igor, Sokolova Ekaterina, Bukin Oleg
- 337 B05–O25 Potential of new SAR missions for monitoring of arctic landsurface hydrology
Bartsch Annett, Leibman Marina, Widhalm Barbara, Hogstrom Elin, Trofaier Anna Maria, Dvornikov Jury
- 134 B05–O26 LONG-TERM OBSERVATIONS AND SYNTHESIS FOR EVALUATING CARBON DIOXIDE FLUXES OVER ALASKA
Ueyama Masahito, Iwata Hiroki, Ichii Kazuhito, Nagano Hirohiko, Harazono Yoshinobu, Eugenie Euskirchen, Zona Donatella, Rocha Adrian, Nakai Taro, Oechel Walter
- 281 B05–O27 WILDFIRE MONITORING UTILIZING NEW SATELLITE SENSORS
Nakau Koji
- 346 B05–O28 SIOS Remote Sensing Service
Lonar Barth Vigdis , Andersen Bo, Misund Ole Arve, Orbaek Jon Borre, Macelloni Giovanni

【Poster】 April 29, 17:30–19:00

- 38 B05–P01 A long-term dataset of satellite-derived Northern Hemisphere snow cover properties in 5km spatial resolution prepared for JAXA's GCOM-C mission
Hori Masahiro
- 58 B05–P02 Validation of snow depth by microwave remote sensing with in-situ field data
Kim Yongwon, Enomoto Hiroyuki
- 266 B05–P03 Surface and subsurface conditions and satellite images in permafrost area after wildfire, Seward Peninsula, Alaska
Harada Koichiro, Narita kenji, Saito Kazuyuki, Iwahana Go, Sawada Yuki, Fukuda Masami
- 250 B05–P04 Mapping understory Normalized Difference Vegetation Index (NDVI_u) in boreal forests by MODIS BRDF products
Yang Wei, Kobayashi Hideki, Suzuki Rikie, Nasahara Kenlo
- 282 B05–P05 Regional CO₂ uptake estimation applying the light use efficiency model with MODIS and field data to examine wildfire effects in Alaskan boreal forest
Otsuki Motoi, Iwata Hiroki, Iwata Toru, Nagano Hirohiko, Harazono Yoshinobu, Iwama Chie, Ueyama Masahito
- 289 B05–P06 APPLICATION OF MULTICOPTER FOR SNOW CONDITION MEASUREMENTS IN THE MOUNTAIN RANGE
Wada Naoya
- 301 B05–P07 DETECTION OF MELT POND DISTRIBUTION ON THE ARCTIC SEA ICE FROM SATELLITE MICROWAVE DATA
Tanaka Yasuhiro, Tateyama Kazutaka, Kameda Takao, Enomoto Hiroyuki

- 313 B05-P08 Arctic sea ice and melt pond characteristics observed by very high resolution remotely sensed data
Park Jeong Won, Kim Hyun Cheol, Hong Sang Hoon, Hyun Chang Uk
- 363 B05-P09 Primary Productivity Algorithm Round Robin (PPARR) of Satellite-based Models for the Arctic Ocean
Lee Younjoo, Matrai Patricia, Friedrichs Marjorie, Saba Vincent
- 315 B05-P10 Melt pond delineation from arctic sea ice using VHR satellite image
Hyun Chang Uk
- 445 B05-P11 Arctic Sea Ice Thickness Monitoring Using CryoSat-2 Satellite Data
Lee Sanggyun, Im Jungho, Han Hyangsun, Kim Jinwoo
- 449 B05-P12 OBSERVATION OF ARCTIC SEA ICE CONDITION IN THE CANADA BASIN IN 2014 SUMMER -FROM JOIS2014 CRUISE-
Hoshino Seita, Tanaka Yasuhiro, Tateyama Kazutaka, Yamaguchi Hajime, Shimada Koji
- 456 B05-P13 COLOR MONITORING ON ALPINE SNOWPACK FOR EVALUATION OF VOLCANIC GAS DIFFUSION
Sazawa Kazuto, Higuchi Kaito, Kuramitz Hideki, Kawamura Kensuke, Wada Naoya

B6: A Pan-Arctic Challenge: Predicting the Future of Marine Biota and Ecosystem Connectivity Through Field Studies and Data Integration

Main Convener: Dieter Piepenburg

【Oral】

April 27, 14:00–15:30

- | reference Number | presentation title |
|------------------|--|
| 205 B06-001 | SEA ICE ALGAE RESPONSE TO BEAUFORT GYRE VARIATION
Watanabe Eiji, Onodera Jonaotaro, Harada Naomi, Aita Maki, Ishida Akio, Kishi Michio |
| 273 B06-002 | USE OF NEXT-GENERATION SEQUENCING IN STUDYING BIOGEOGRAPHY OF SEA-ICE PROTISTS
Majaneva Markus, Rintala Janne Markus, Blomster Jaanika |
| 482 B06-003 | Arctic phytoplankton responses to changing temperature and light
van de Poll Willem, Buma Anita |
| 406 B06-004 | Springtime phytoplankton dynamics in the Arctic Krossfjorden and Kongsfjorden (Spitsbergen) as a function of glacier proximity
Piquet Anouk, van de Poll Willem, Visser Ronald, Wiencke Christian, Bolhuis Henk |
| 18 B06-005 | Settling diatom flux reflecting hydrographic change in the western Arctic Ocean, 2010–2012
Onodera Jonaotaro, Eiji Watanabe, Harada Naomi |
| 224 B06-006 | DISTRIBUTION OF MYCOSPORINE-LIKE AMINOACIDS ALONG SIZE-FRACTIONATED PHYTOPLANKTON IN THE BEAUFORT SEA, ARCTIC
Ha Sun Yong, Min Jun Oh, Joo Hyung Min, Yang Eun Jin, Kang Sung Ho, Shin Kyung Hoon |

April 27, 16:00–17:30

- | | |
|-------------|---|
| 455 B06-007 | Micro-focus X-ray CT analysis reveals shell density of marine calcifiers and its seasonal changes
Kimoto Katsunori, Sasaki Osamu, Kano Harumasa, Kihara Tatsuyuki, Wakita Masahide, Onodera Jonaotaro, Honda Makio, Harada Naomi |
| 174 B06-008 | Spatial distributions of nutrients, dissolved organic carbon and nitrogen in the Chukchi and Beaufort Seas
Jung Jinyoung, Ha Sun Yong, Min Jun Oh, Yang Eun Jin, Shin Kyung Hoon, Kang Sung Ho |
| 145 B06-009 | The Arctic Ocean nutrient budget; transport of dissolved inorganic and organic nutrients across the Arctic Ocean boundaries.
Torres Valdes Sinhue, Tsubouchi Takamasa, Naveira Garabato Alberto, Davey Emily, Bacon Sheldon |
| 185 B06-010 | CARBONATE SYSTEM AND ITS CONTROL FACTORS IN THE CHUKCHI SEA IN PERSPECTIVE OF THE CHANGING ARCTIC ENVIRONMENT
Rhee Tae Siek, Jeon Hyun Duck, Hahm Doshik, Park Keyhong, Kwon Young Shin, Kang Sung Ho |
| 136 B06-011 | Inter-annual and Shorter-Term Variability in Physical and Biological Characteristics across Barrow Canyon in August – September 2005–2014
Ashjian Carin, Campbell Robert, Okkonen Stephen, Alatalo Philip, Bahr Frank |

200 B06-O12 SHORT-TERM CHANGES OF MESOZOOPANKTON COMMUNITY IN THE CHUKCHI SEA DURING AUTUMN

Matsuno Kohei, Yokoi Naoya, Yamaguchi Atsushi, Nishino Shigeto, Inoue Jun, Kikuchi Takashi

April 28, 10:45-12:15

469 B06-O13 Zooplankton communities on arctic shelves: a panarctic analysis of faunal regions

Hopcroft Russell, Kosobokova Ksenia, Ershova Elizaveta, Questel Jennifer, Smoot Caitlin

509 B06-O14 Destination North – structural and functional diversity of zooplankton in relation with environmental variables in the entrance to the Arctic Ocean

Gluchowska Marta, Trudnowska Emilia, Blachowiak-Samolyk Katarzyna, Goszczko Ilona, Walczowski Waldemar, Kwasniewski Slawomir

528 B06-O15 From 'benthos-dominated' to 'zooplankton-dominated' mode- is it plausible scenario for Arctic fjords?

Grzelak Katarzyna, Gluchowska Marta, Weslawski Jan

142 B06-O16 Benthic community diversity and structure in relation to sediment processes in the Chukchi Sea

Cooper Lee, Grebmeier Jacqueline

162 B06-O17 Benthic ecosystem functioning and coupling processes in the shallow Laptev Sea : Evidence from benthic turnover rates, benthic and pelagic patterns

von Juterzenka Karen, Abramova Ekaterina, Link Heike, Novikhin Andrey, Povazhnyi Vassily, Piepenburg Dieter

138 B06-O18 Benthic population dynamics and diversity in the changing shelf ecosystems of the Bering and Chukchi Seas

Kedra Monika, Grebmeier Jacqueline, Cooper Lee

April 28, 13:45-15:15

307 B06-O19 A pan-Arctic or polar challenge? Insights from a comparative study of benthic functions on both poles

Link Heike

296 B06-O20 Benthic Biomass Size Spectra – a tool to identify biotic response to environmental change in the Arctic?

WlodarskaKowalczyk Maria, Gorska Barbara

131 B06-O21 The diet of polar cod (*Boreogadus saida*) early life stages: a pan-Arctic study

Bouchard Caroline, Aspirault Ariane, Fortier Louis

365 B06-O22 Upper thermal limits of cardiac function for Arctic cod *Boreogadus saida* – a key food web fish species in the Arctic Ocean

163 B06-O23 MARINE MAMMALS AS SENTINELS OF ARCTIC ECOSYSTEM RESPONSES TO CLIMATE CHANGE

Moore Sue

285 B06-O24 Spatial associations between baleen whales and their prey in the northern Bering and Chukchi Seas

Iwahara Yuka, Matsuno Kohei, Sekiguchi Keiko, Nishizawa Bungo, Nakano Tsubasa, Uyama Takashi, Yamaguchi Atsushi, Watanuki Yutaka, Miyashita Kazushi, Mitani Yoko

April 28, 15:45–17:15

- 480 B06–O25 Building partnerships across the Arctic
Loeng Harald
- 269 B06–O26 Russian–German Cooperation in the Siberian Arctic: the Laptev Sea System Program
Kassens Heidemarie, Timokhov Leonid, Hoelemann Jens, Novikhin Andrey, Ipatov Alexander
- 479 B06–O27 Coordinating and integrating international studies of marine biodiversity and ecosystem dynamics in the Atlantic sector of the Arctic Ocean – a key activity of the Svalbard Integrated Earth Observing System
Ellis–Evans Cynan, Holmen Kim, Andersen Bo, Biebow Nicole, Glowacki Piotr, Orbaek Jon Borre, Misund Ole Arve, Priamikov Sergey, Ronneberg Ragnhild, Shin Hyoung Chul, Vitale Vito
- 100 B06–O28 PANABIO – A strategic approach to large–scale data integration, analysis and modeling by means of a geo–referenced information system for predicting the response of benthic biota to environmental change in Arctic seas
Piepenburg Dieter, Archambault Philippe, Joergensen Lis
- 443 B06–O29 Integration of the Beaufort Sea Shelf Ecosystem Model with biomarker data to select indicators for monitoring
Hoover Carie, Loseto Lisa
- 393 B06–O30 Modeling future arctic marine ecosystems
Planque Benjamin, Lindstroem Ulf, Subbey Sam

【Poster】 April 28, 17:30–19:00

- 303 B06–P01 SMALL– AND MESOSCALE VARIABILITY OF BENTHIC FOOD WEBS IN ARCTIC
Legezynska Joanna, Zaborska Agata, Wlodarska Kowalczuk Maria, Jankowska Emilia, Pazdro Ksenia
- 310 B06–P02 THE SOURCES OF FOOD FOR BENTHIC COMMUNITIES IN THE TWO ARCTIC FIORDS CHARACTERISED BY DIFFERENT ENVIRONMENTAL CONDITIONS
Zaborska Agata, Legezynska Joanna, Wlodarska Kowalczuk Maria
- 516 B06–P03 Seasonal variability in high Arctic fjord benthic food web – stable isotope case study
Kedra Monika, Karol Kulinski, Winogradow Aleksandra, Nathalie Morata, Bourgeois Solveig, Richard Joelle
- 526 B06–P04 Meiofaunal communities along an offshore gradient in two glacial Spitsbergen fjords
Grzelak Katarzyna, Gluchowska Marta, Gregorczyk Klaudia, Weslawski Jan
- 271 B06–P05 Changes in Arctic benthos – Demand for a “functional Atlas”

Degen Renate, Brey Tom, Boetius Antje, Piepenburg Dieter

- 517 B06-P06 SPATIO-TEMPORAL VARIATIONS OF BENTHIC ACTIVITIES IN TWO CONTRASTED HIGH ARCTIC FJORDS (KONGSFJORDEN AND RIJPFJORDEN, SVALBARD)
Morata Nathalie
- 146 B06-P07 Arctic Ocean nutrients and carbon biogeochemistry studies from the emerging pan-Arctic hydrographic array
Torres Valdes Sinhue, Tsubouchi Takamasa, MacGilchrist Graeme, Naveira Garabato Alberto, Davey Emily, Bacon Sheldon
- 189 B06-P08 SPATIAL DISTRIBUTION AND CHARACTERISTICS OF DISSOLVED ORGANIC MATTER IN THE BEAUFORT AND CHUKCHI SEAS
Lee Yeonjung, Ha Sun Yong, Min Jun Oh, Yang Eun Jin, Kang Sung Ho
- 416 B06-P09 Adaptability to environmental change in a high-latitude fjord ecosystem: The Kongsfjorden Ecosystem Flagship Program
Roland Neuber
- 179 B06-P10 Distributions of the Pacific-origin waters in the Chukchi Borderland, 2010-2014
Cho Kyoung Ho, Kang Chan Young, Shimada Koji, Kang Sung Ho, Kim Tae Wan, Park Jisoo
- 551 B06-P11 Localised shelf-break upwelling and downwelling and alongshelf flow on the Canadian Beaufort Shelf - response at Cape Bathurst and Herschel Island to along-shelf wind and flow.
William Williams, Humfrey Melling
- 32 B06-P12 Seasonal and annual flux changes of microzooplankton (Radiolaria) in the western Arctic Ocean: environmental indices in a warming Arctic
IKENOUE Takahito
- 181 B06-P13 Seasonal and interannual variability of remotely sensed chlorophyll-a in Arctic Ocean during a recent decade
Park Jisoo, Ko Eunho, Kang Sung Ho
- 218 B06-P14 DIEL VERTICAL MIGRATION OF ARCTIC COPEPODS UNDER SEA ICE IN THE CANADA BASIN
La Hyoung Sul, Shimada Koji, Yang Eun Jin, Ha Ho Kyung, Kang Sung Ho, Shin Hyoung Chul
- 226 B06-P15 CORRELATION BETWEEN PHYTOPLANKTON COMMUNITIES AND ENVIRONMENTAL FACTORS IN THE WESTERN ARCTIC OCEAN DURING LATE SUMMER, 2012
Joo Hyoung Min, Min Jun Oh, Jeon Misa, Yang Eun Jin, Kang Sung Ho
- 295 B06-P16 SPATIAL VARIABILITY OF SPECIES COMPOSITION, ABUNDANCE AND BIOMASS OF LATE SUMMER PHYTOPLANKTON IN THE LAPTEV SEA (SEASONS 2008-2010)
Kryukova Irina, Polyakova Yelena, Abramova Ekaterina, Martynov Fedor, Novikhin Andrey, Kassens Heidemarie
- 362 B06-P17 Seasonal change of sound scatters derived from zooplankton in the southern Chukchi Sea

Kitamura Minoru, Amakasu Kazuo, Nishino Shigeto, Kikuchi Takashi

513 B06-P18 Growing of the Arctic Marine Ecosystem – food-web traits of the high latitude Spitsbergen fjords ecosystems with contrasting oceanographic conditions

Gluchowska Marta, Tomczak Maciej, Grzelak Katarzyna, Kwasniewski Slawomir, Wlodarska-Kowalczyk Maria, Legezynska Joanna, Weslawski Jan

242 B06-P19 DETERMINATION OF PHOTOSYNTHETIC PIGMENT PRODUCTION RATE AND DISSOLVED FREE AMINO ACID FROM MELTING PONDS ON ARCTIC SEA ICE

Min Jun Oh, Yang Eun JIN, Ha Sun Yong, Jung Jin Young, Kang Sung Ho

229 B06-P20 ASSESSMENT OF THE RELATIONSHIP BETWEEN TIMING OF SEA-ICE RETREAT AND PHYTOPLANKTON COMMUNITY SIZE STRUCTURE IN THE BERING AND CHUKCHI SEA SHELF REGION: A REMOTE SENSING APPROACH

Fujiwara Amane, Hirawake Toru, Suzuki Koji, Imai Ichiro, Saitoh Seiichi, Kikuchi Takashi

430 B06-P21 Hydrochemical regime of the Pechora River in present-day conditions of anthropogenic impact

B7: Atmosphere–ocean–ice interactions and aspects related to a future, seasonally ice free Arctic Ocean

Main Convener: Bert Rudels

【Oral】

April 28, 10:45–12:15

reference Number presentation title

50 B07–001 MULTI–DECADAL VARIABILITY IN THE ARCTIC

Outten Stephen, Esau Igor

336 B07–002 The Complex response of Arctic aerosol to sea–ice retreat

Browse Jo, Carslaw Kenneth, Mann Graham, Birch Cathryn, Arnold Stephen, Leck Caroline

382 B07–003 On assessing the temporal variability of Arctic energy budgets

Haimberger Leopold, Mayer Michael, Blaschek Michael

589 B07–004 Future changes in the Arctic Ocean biogeochemistry in CMIP5 projections with MPI–ESM

Ilyina Tatiana, Six Katharina, Jungclaus Johann

225 B07–005 Towards Process Resolving Modeling, Integrated Synthesis and Prediction of Arctic Climate Change

Maslowski Wieslaw, Roberts Andrew, Osinski Robert

April 28, 13:45–15:15

7 B07–006 Investigating leads and the atmospheric boundary layer near Svalbard

Heinemann Guenther

384 B07–007 Direct Observations of Ocean Variability Across the Arctic Marginal Ice Zone from Autonomous Gliders

Rainville Luc, Lee Craig, Perry Mary Jane

532 B07–008 Atmosphere–Ice–Ocean Interactions During Summer Melt and Early Autumn Freeze–up: Observations from the ACSE Field Program

Persson Ola, Shupe Matthew, Tjernstrom Michael, Sedlar Joseph, Brooks Ian, Brooks Barbara, Bjork Goran, Prytherch John, Salisbury Dominic, Achtert Peggy, Sotiropoulou Georgia, Johnston Paul, Wolfe Daniel

572 B07–009 Rapid sea–ice melt due to warm air advection: Observations from the ACSE Field Program

Tjernstrom Michael

69 B07–010 Cloud Radiative Forcing in an Ice–free Arctic

Ridley Jeff

355 B07-O11 Projected Future Duration of the Sea-Ice-Free Season in the Alaskan Arctic by CMIP5 models
Wang Muyin, Overland James
Poster Introductions

April 28, 15:45-17:15

83 B07-O12 Environmental Conditions for Polar Lows in the Nordic Seas
Thomas Spengler, Terpstra Annick, Michel Clio

85 B07-O13 Influence of Surface Fluxes on Polar Low Development: Idealised Simulations
Terpstra Annick, Green Linda, Spengler Thomas

191 B07-O14 Climatology of polar lows over the Japan Sea using the JRA-55 reanalysis
Yanase Wataru, Niino Hiroshi

196 B07-O15 Open-ocean convection becoming less intense in the Greenland and Iceland Seas
Moore Kent, Vage Kjetil, Pickart Robert, Renfrew Ian

71 B07-O16 Long-term dynamics of the North Water polynya by means of passive microwave and thermal infrared imagery
Preusser Andreas, Heinemann Guenther, Willmes Sascha, Paul Stephan

April 29, 10:45-12:15

89 B07-O17 On the Circulation and Mixing of Atlantic Water in the Arctic Ocean
Spall Michael

147 B07-O18 Pathways, variability and modification mechanisms of the Arctic Atlantic water in the sea-ice ocean coupled models
Aksenov Yevgeny, Bacon Sheldon, Nurser George, Coward Andrew

329 B07-O19 Arctic Ocean circulation changes in the last decade, derived from observations and model investigations
Karcher Michael, Sumata Hiroshi, Rabe Benjamin, Kikuchi Takashi, Kauker Frank, Gerdes Ruediger

173 B07-O20 The Atlantic Water impact on the shelf-basin exchange at the boundary between the Barents Sea and the Greenland Sea.
Goszczko Ilona

76 B07-O21 Tides stir up Atlantic Water heat along the Arctic Ocean continental slope
Lenn YD, Rippeth TP, Lincoln B, Bacon Sheldon, Sundfjord A

April 29, 13:45-15:15

12 B07-O22 Upper Arctic Ocean decadal changes: freshwater, stratification and surface velocity

Rabe Benjamin

- 206 B07-O23 Seasonality and trends of freshwater exchanges between the ice and ocean in the Canada Basin
Krishfield Richard, Proshutinsky Andrey, Williams Bill, Tateyama Kazu, Timmermans Mary Louise, Toole John
- 324 B07-O24 Mechanisms of Polar Surface Water and their Prospects with Loss of Summer Ice Cover
Haine Thomas, Stewart Kial
- 243 B07-O25 Volume, heat and freshwater fluxes of Pacific Water through the Barrow Canyon in the Arctic Ocean
Itoh Motoyo, Kikuchi Takashi, Nishino Shigeto
- 494 B07-O26 Existence of the Mendeleev Gyre and its role in Arctic circulation
Zhao Jinping, Kim Taewan, Kang Sung-Ho

April 29, 15:45-17:15

- 441 B07-O27 ROLES OF DIFFERENT FACTORS IN SHAPPING ARCTIC OCEAN HYDROGRAPHY AND CIRCULATION
Proshutinsky Andrey, Timmermans Mary-Louise, Watanabe Eiji, Yang Jiayan, Krishfield Richard, Toole John, Golubeva Elena, Platov Gennady, Herbaut Christophe, Houssais Marie-Noelle, Zhang Jinlun, Williams Bill
- 290 B07-O28 Mixing, overturning and water mass transformation in the Arctic Ocean
Alberto Naveira Garabato, DeGiorgio Romina, Zika Jan, Bacon Sheldon
- 11 B07-O29 Future states of the Arctic Ocean using a coupled ice-ocean model with probability distribution function
Ikeda Motoyoshi
- 178 B07-O30 Two decades of the Atlantic water variability in Fram Strait and its links to the regional sea ice and atmospheric changes
Beszczynska Moeller Agnieszka, Walczowski Waldemar, Schauer Ursula
- 108 B07-O31 Observed seasonal variation of the Arctic Ocean heat and fresh water budgets
Tsubouchi Takamasa, Bacon Sheldon, Naveira Garabato Alberto
- 415 B07-O32 Autonomous Investigations of Marginal Ice Zone Processes- Changing Feedbacks and Observational Challenges
Lee Craig, Doble MartinKang Sung-Ho, Wieslaw Maskowski, Stanton Tim, Timmermans Mary-Louise, Wilkinson Jeremy

【Poster】 April 29, 17:30-19:00

- 322 B07-P01 Enhancing calculation of thin sea ice growth
Appel Igor
- 408 B07-P02 The Arctic Sea Ice Seasonality Index

- Haine Thomas, Martin Torge
- 270 B07-P03 Change in sea ice thickness caused by the ice motion
Kimura Noriaki, Tateyama Kazutaka, Yamaguchi Hajime
- 70 B07-P04 THE SEA ICE ALBEDO FEEDBACK IN ACTION: A CASE STUDY
West Alex, Ridley Jeff
- 43 B07-P05 SPATIAL DIVERSITY OF AIR RELATIVE HUMIDITY IN THE NORTHERN PART OF THE KAFFIØYRA PLAIN AND ON THE WALDEMAR GLACIER (NW SPITSBERGEN) FROM SEPTEMBER 2010 TO AUGUST 2013
Ulandowska Monarcha Patrycja, Przybylak Rajmund, Arazny Andrzej
- 55 B07-P06 Changes of heat balance in Hornsund (SW Spitsbergen) in the period from May to October 2014
Przybylak Rajmund
- 354 B07-P07 Changes to the surface wave boundary layer in the presence of partial ice cover.
Zippel Seth
- 183 B07-P08 Mid-winter freeze experiment in the Arctic Ocean: Norwegian Young sea ICE cruise (N-ICE2015)
Nomura Daiki, Granskog Mats, Fransson Agneta, Silyakova Anna, Hudson Stephen, Chierici Melissa, Assmy Philipp, Delille Bruno, Kotovitch Marie, Dieckmann Gerhard, Steen Harald
- 454 B07-P09 Continuously radiosonde observation on-ice and off-ice by Icebreaker passing through marginal ice zone in Laptev Sea.
Komatsu Kensuke, Tachibana Yoshihiro, Alexeev Vladimir
- 87 B07-P10 HORIZONTAL VARIABILITY SPECTRUM IN THE ARCTIC OCEAN
Marcinko Charlotte
- 349 B07-P11 In Situ Measurements of an Energetic Wave Event in the Arctic Marginal Ice Zone
Collins Clarence, Rogers W, Marchenko Aleksey, Babanin Alexander
- 54 B07-P12 Arctic Ocean stability, a balance between cooling and freezing, freshwater input and sea ice melt
Rudels Bert
- 151 B07-P13 Predicting the Arctic Ocean Environment in the 21st century
Aksenov Yevgeny, Popova Ekaterina, Yool Andrew, Nurser George
- 124 B07-P14 Delayed response of the oceanic Beaufort Gyre to wind sea ice motion: Influences on recent sea ice reduction in the Pacific sector of the Arctic Ocean
Yoshizawa Eri, Shimada Koji, Ha Ho Kyung, Kim Tae Wan, Kang Sung Ho, Chung Kyung Ho
- 507 B07-P15 Forcing, Variability, and Pathway of a Siberian Buoyancy-driven Current and its implications for Arctic freshwater variability

Janout Markus, Aksenov Yevgeny, Hoelemann Jens, Rabe Ben, Schauer Ursula, Karcher Michael, Lenn Yueng-Djern, Polyakov Igor, Bacon Sheldon, Coward Andrew, Kassens Heidi, Timokhov Leo

24 B07-P16 Magnitude and variation of under ice primary production in the Arctic Ocean

Jin Meibing

176 B07-P17 NUTRIENT SUPPLY AND BIOLOGICAL RESPONSE CAUSED BY WIND-INDUCED FORCING IN THE NORHERN CHUKCHI SEA

Nishino Shigeto, Kawaguchi Yusuke, Inoue Jun, Hirawake Toru, Fujiwara Amane, Futsuki Ryosuke, Onodera Jonaotraro, Aoyama Michio

160 B07-P18 ATMOSPHERIC FORCING OF TRANSPORT OF POLAR WATER AND SEA ICE OVER THE NORTH ICELANDIC SHELF

Jonsson Steingrimur, Valdimarsson Hedinn

418 B07-P19 Freshwater changes in the Nordic Sea and its connection with the regional Ocean and Atmosphere variations

DU Ling, ZHAO Jinping

B8: From human security to geopolitical dynamics in the Global Arctic: the global implications of rapid environmental, economic, and societal change

Main Convener: Lassi Heininen

【Oral】

April 30, 10:45–12:15

reference Time	Number	presentation title
422	B07–001	The Impact of Climate Change on Aboriginal Subsistence Whaling in Northwest Alaska: Inupiat Whalers, Bowhead Whales and Oil/Gas development Kishigami Nomuhiro
401	B07–002	Human security as Arctic geographies of provisioning Arthur Mason
42	B07–003	Global Change, Biodiversity and the livelihoods of Indigenous Arctic People in North–Eastern Siberia Stanislav Ksenofontov, et al
22	B07–004	The Project `Red Chum` as a form of interaction between the Indigenous peoples of the Arctic and the Oil Companies Natalia Bobyeva and Galina Degteva
165	B07–005	Indigenous People issues matter China Arctic Policy SU Ping Open discussion

April 30, 13:45–15:15

284	B07–006	Northern Trade Route Sami Bensassi
335	B07–007	The Arctic narrative in the Icelandic media: Do economic interests trump environmental concerns Kristinn Schram and Jon Gunnar Olafsson
3	B07–008	Mechanisms for coping with adverse states and the personality changes of workers in a changing Arctic climate Yana Korneeva
187	B07–009	Understanding rapid Climate Change Larry Hinzman
492	B07–010	Extractive Resources and Sustainable Development in the Arctic Research Priorities for the next Decade Chris Southcott
	B07–011	Open discussion

Poster Introductions

【Poster】 April 30, 17:30–19:00

334	B07–P01	Psychological safety of shift workers in the Arctic Tyulyubaeva Tamara
461	B07–P02	Increasing Arctic Local Stewardship through forming a Tribal Conservation District – an example of 3 Tribes along the Yukon River Mutter Edda, Jochum Kim

B9: Arctic Governance, Sustainable Development of Local Communities and Non-Arctic State's Contribution

Main Convener: Shinichiro Tabata

【Oral】

April 28, 10:45–12:15

- | reference Number | presentation title |
|------------------|---|
| 534 B09-O01 | Chinese Arctic Science Diplomacy: Conceptualizing the Chinese Dream, a Historical Approach from Hard Power to Soft Power
Bertelsen Rasmus, Li Xing, Gregersen Mette |
| 294 B09-O02 | What Japan can do as an Asian Permanent Observer State in the Arctic Council's Framework
IKESHIMA TAISAKU |
| 523 B09-O03 | From environmental problems to societal opportunities: How climate change and sustainability discourse is reshaping the Arctic making it more attractive for non-Arctic powers especially in East Asian countries and making it more vulnerable for indigenous peoples in the Arctic
Jakobsen Uffe |
| 473 B09-O04 | CHINA'S ROLE IN ARCTIC GOVERNANCE: MAPPING CHINESE FOREIGN POLICY CONTRADICTIONS
Pelaudeix Cecile |
| 373 B09-O05 | The Politics of the Right to Self-determination: Greenland in Transition
TAKAHASHI Minori |
| 288 B09-O06 | Autonomism and comprehensive sustainability in Greenland and Nunavut
Thomsen Robert |

April 28, 13:45–15:15

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|-------------|---|
| 40 B09-O07 | A Preliminary Analysis of the Socio-Economic Development of Arkhangelsk and Murmansk Regions after the Collapse of the USSR
Tabata Shinichiro, Tabata Tomoko |
| 502 B09-O08 | Population Dynamics and Transformation of Human Settlements in Northeast Arctic Regions of Russia
Litvinenko Tamara |
| 340 B09-O09 | Understanding the values of sustainable development in the Arctic: A case study of sustainable development in Iceland
Janelle Knox Hayes, Alyssa Maraj S Grahame |
| 239 B09-O10 | ENTREPRENEURIAL SUPPORT AND LOCAL COMMUNITY AROUND THE RESOURCE DEVELOPMENT IN ARCTIC RUSSIA
Goto Masanori |
| 64 B09-O11 | Problems of Congruence of Interests and Perspectives of Northern Indigenous Ethnic Minorities and Oil & Gaz Corporations coexistence in the Coastal Areas of the Russian Federation Arctic Zone |

Kutsenko Svetlana, Podoplekin Andrey

347 B09-O12 THE KETS ETHNOS AND ITS "FEEDING LANDSCAPE": ECOLOGICAL-GEOGRAPHICAL AND SOCIO-ECOLOGICAL PROBLEMS UNDER GLOBALIZATION AND CHANGING CLIMATE

Medvedkov Aleksei

April 28, 15:45-17:15

587 B09-O13 Designing a Regional Seas Program for the Arctic Ocean: Legal, Scientific and Observational Support

BAKER Betsy

472 B09-O14 New Challenges for Arctic Regional Order

Ohnishi Fujio

6 B09-O15 ARCTIC GOVERNANCE AND INDIGENOUS PEOPLES: A HUMAN SECURITY PERSPECTIVE

Hossain Kamrul

413 B09-O16 The UK's, German and French approaches to the Arctic

Smieszek Malgorzata, Kankaanpaa Paula

488 B09-O17 THE EU'S MORAL RESPONSIBILITY: BANNING IMPORTS OF RUSSIAN ARCTIC OIL

Shapovalova Daria, Boute Anatole

519 B09-O18 Arctic Council's impact on member states policies: does it really matter? Arctic Council and Norwegian shipping policy

Graczyk Piotr

514 B09-O19 Thinking Outside the Box: A Call for the Polar Treaty

Ason Agnieszka

April 28, 15:45-17:15

66 B09-P01 THE NORTHERN INDIGENOUS PEOPLES AND CO-MANAGEMENT OF THE RUSSIAN ARCTIC TERRITORIES IN THE PERIOD OF INDUSTRIAL DEVELOPMENT

Gladun Elena, Chebotarev Gennady

575 B09-P02 EVALUATING INSTITUTIONAL OUTCOMES PROTECTING SUBSISTENCE ACTIVITIES IN THE NATIONAL PETROLEUM RESERVE-ALASKA (NPR-A)

Sprau Matthew

300 B09-P03 Institutional diversity and its effects on social vulnerability and human security: analytical framework

Loginova Julia

426 B09-P04 Russian coal mining in Svalbard: paths to sustainability

Vlakhov Andrian

- 323 B09-P05 Importance of Northern Resources of Yakutia and Ecological Aspects of Arctic Development
Lazareva Anisiia
- 197 B09-P06 Stages of taiga-alas landscapes settling in Central Yakutia
Desyatkin Roman
- 459 B09-P07 Comparison of the definition of indigenous people in Russian and international law
Petrova Aitalina
- 596 B09-P08 Arctic Shipping and Asian shipping companies: a real interest?
Lasserre Frederic

B10: Ice mass loss in Greenland and Arctic glaciers under the influence of changing atmosphere and the ocean

Main Convener: Shin Sugiyama

【Oral】

April 28, 15:45–17:15

- | reference Number | presentation title |
|------------------|---|
| 59 B10–001 | Relevance of ice stream dynamics and induced anisotropy for simulating the discharge of the Greenland ice sheet
Greve Ralf |
| 338 B10–002 | North East Greenland Ice Stream: Flow Dynamics from Geophysics and Implications for Sea Level Rise
Riverman Kiya, Anandakrishnan Sridhar, Alley Richard, Christianson Knut, Peters Leo |
| 171 B10–003 | Ice front and flow speed variations of marine terminating outlet glaciers along the coast of Prudhoe Land, northwestern Greenland
Daiki Sakakibara, Shin Sugiyama |
| 262 B10–004 | Modeling the flow dynamics of the Bowdoin Glacier, Qaanaaq region, northwestern Greenland
Seddik Hakime, Greve Ralf, Sugiyama Shin, Sakakibara Daiki |
| 1 B10–005 | GLACIAL EARTHQUAKE ACTIVITIES AND ICE SHEET DYNAMICS IN GREENLAND
Kanao Masaki |
| 486 B10–006 | Programme for Monitoring of the Greenland Ice Sheet
Andersen Signe |

April 29, 10:45–12:15

- | | |
|-------------|---|
| 149 B10–007 | Ocean, sea ice and glaciers interactions in Svalbard area
Walczowski Waldemar, Blaszczyk Malgorzata, Wawrzyniak Tomasz |
| 389 B10–008 | The oceanic influence on glaciers calving in Hornsund Fjord, Spitsbergen
Prominska Agnieszka, Ignatiuk Dariusz |
| 395 B10–009 | Meltwater and rain water discharge from glacier basins of Spitsbergen and its influence on ice cliff dynamics
Majchrowska Elzbieta, Jania Jacek, Cieply Michal |
| 374 B10–010 | Pathways of warm water to the Northeast Greenland outlet glaciers
Schaffer Janin |
| 274 B10–011 | GRIFF 2016 – an interdisciplinary campaign to study the 79° N glacier and its interaction with the ocean |

Kanzow Torsten, Schauer Ursula, Humbert Angelika, Nicholls Keith, Straneo, Fiamma Muenchow, Andreas Andresen, Camilla Hamilton, Gordon Roberts, David Huhn Oliver Scheinert, Mirkov, van der Loeff, Michiel Rutgers

511 B10-O12 Strategy for future research to investigate ice-ocean interaction in Greenland

Humbert Angelika

April 29, 13:45-15:15

403 B10-O13 MASS BALANCE AND DYNAMICS OF AUSTFONNA ICE CAP, SVALBARD

Hagen Jon Ove, Dunse Thorben, Eiken Trond, Kohler Jack, Moholdt Geir, Schuler Thomas, Ostby Torbjorn

588 B10-O14 Evolution of Svalbard land-terminating glaciers over the 21st century

Francisco Navarro, Moeller Marco, Martin-Espanol Alba, Finkelnburg Roman

538 B10-O15 Modelling mass balance and dynamics of Hardangerjøkulen ice cap, southern Norway

Akesson Henning, H Nisancioglu Kerim, H Giesen Rianne, Morlighem Mathieu

249 B10-O16 Shrinking glaciers in Suntar Khayata, east Siberia

Kadota Tsutomu, Shirakawa Tatsuo, Kusaka Ryo, Takahashi Shuhei, Galanin Alexey, Fedorov Alexander, Enomoto Hiroyuki, Ohata Tetsuo, Yabuki Hironori

210 B10-O17 Modeling future mass balance of the Arctic glaciers: case study in the Altai Mountains

Zhang Yong, Enomoto Hiroyuki, Ohata Tetsuo

31 B10-O18 Appearance of new Arctic islands due to recession of glaciers

Ziaja Wieslaw, Ostafin Krzysztof

April 29, 15:45-17:15

116 B10-O19 Light absorbing snow impurities measured at SIGMA-A, Greenland ice sheet and their effect on albedo

Aoki Teruo, Matoba Sumito, Yamaguchi Satoru, Tanikawa Tomonori, Niwano Masashi, Kuchiki Katsuyuki, Hori Masahiro, Motoyama Hideaki, Goto Azuma Kumiko, Ogawa Yoshimi, Kondo Yutaka, Moteki Nobuhiro

510 B10-O20 Quantification of impurities on melting glacier ice surfaces and its relation to measured albedo

Boeggild Carl, Machguth Horst

63 B10-O21 DARKENING GREENLAND AND CRYOCONITE HOLE DYNAMICS

Takeuchi Nozomu, Sakaki Ryutaro, Aoki Teruo, Niwano Masashi, Onuma Yukihiko, Tanaka Sota, Shimada Rigen, Nagatsuka Naoko, Uetake Jun

190 B10-O22 Snow algal communities and its effect on melting of glaciers in Suntar Khayata Mountain range in Eastern Siberia

Tanaka Sota, Takeuchi Nozomu, Fujisawa Yuta, Miyairi Masaya, Kadota Tsutomu, Shirakawa Tatsuo, Kusaka Ryo, Takahashi Shuhei, Enomoto Hiroyuki, Ohata Tetsuo, Yabuki Hironori, Konya Keiko, Fedorov Alexander, Konstantinov Pavel

212 B10-O23 SCANNING ELECTRON MICROSCOPY (SEM) ANALYSIS OF BLACK CARBON IN ARCTIC SNOW
Nagatsuka Naoko, Mateiu Ramona, Goto Azuma Kumiko, Ogawa Yoshimi, Sugiura Konosuke, Enomoto Hiroyuki, Aoki Teruo, Kuchiki Katsuyuki, Hirabayashi Motohiro

182 B10-O24 Surface energy balance at the site SIGMA-A, northwest Greenland during the record surface melt event in the summer of 2012
Niwano Masashi, Aoki Teruo, Matoba Sumito, Yamaguchi Satoru, Tanikawa Tomonori, Kuchiki Katsuyuki, Motoyama Hideaki

【Poster】 April 29, 17:30-19:00

- 97 B10-P01 Recent thinning of Bowdoin Glacier, a marine-terminating outlet glacier in northwestern Greenland
Tsutaki Shun, Sugiyama Shin, Sakakibara Daiki, Sawagaki Takanobu, Maruyama Mihiro, Saito Jun, Katayama Naoki
- 207 B10-P02 Sensitivity of the simulated projection of Greenland ice sheet to variation of structural uncertainties in ice-sheet models
SAITO Fuyuki, AbeOuchi Ayako, Takahashi Kunio
- 545 B10-P03 Destabilization of the Greenland ice sheet during the last interglacial
Nisancioglu Kerim
- 48 B10-P04 Mass balance estimation for the Hurlbut Ice Cap in northern Greenland,
Konya Keiko
- 420 B10-P05 Surface elevation change on ice caps in northwestern Greenland
Saito Jun, Tsutaki Shun, Sawagaki Takanobu, Sugiyama Shin
- 60 B10-P06 Glacier and rock temperature changes in the Suntar-Khayata Range (northeastern Russia) over the last 50 years
Konstantinov Pavel
- 119 B10-P07 Spatial and temporal distributions of high turbidity ocean water off the northwestern Greenland coast
Ohashi Yoshihiko, Iida Takahiro, Sugiyama Shin
- 198 B10-P08 Trend and Inter-Annual Variability in Southeast Greenland Sea Ice: Impacts on Coastal Greenland Climate Variability
Moore George, Straneo Fiamma, Oltmanns Marilena
- 107 B10-P09 Temporal and spatial variations in dark ice surface on Greenland ice sheet derived from MODIS satellite image
Shimada Rigen, Takeuchi Nozomu, Aoki Teruo
- 241 B10-P10 RETRIEVALS OF SNOW ALBEDO AND ICE SURFACE TEMPERATURE IN THE NORTH-WEST GREENLAND USING MODIS DATA
Tanikawa Tomonori, Hori Masahiro, Aoki Teruo, Li Wei, Chen Nan, Stamnes Knut
- 121 B10-P11 Temporal change in chlorophyll-a concentration on a snowpack in Qaanaaq Ice Cap in northwest, Greenland
Onuma Yukihiko, Takeuchi Nozomu, Tanaka Sota, Nagatsuka Naoko, Masashi Niwano, Aoki Teruo

236 B10-P12 Forming process of cryoconite granules on Qaanaaq Glacier, northwestern Greenland

Uetake Jun, Segawa Takahiro, Takeuchi Nozomu, Nagatsuka Naoko, Motoyama Hideaki, Aoki Teruo

297 B10-P13 Concentrations of black carbon in the Arctic snow analyzed with a single particle soot photometer (SP2)

Ogawa Yoshimi, GotoAzuma Kumiko, Sugiura Konosuke, Kondo Yutaka, Ohata Sho, Mori Tatsuhiro, Moteki Nobuhiro, Aoki Teruo, Kuchiki Katsuyuki, Dallmayr Remi, Hirabayashi Motohiro, Enomoto Hiroyuki

B11: Navigation and Fisheries in the Arctic: Prospects, Problems and International Policies

Main Convener: Atsumu Ohmura

【Oral】

April 29, 10:45–12:15

reference Number presentation title

590 1 B11-O01 CHANGES IN ARCTIC SEA ICE CHARACTERISTICS AND THEIR IMPACT ON NAVIGATION

Wadhams Peter

566 2 B11-O02 Research on navigation support system for the Arctic sea routes

Yamaguchi Hajime

180 3 B11-O03 Strategic Overview of Implementing the Arctic Marine Shipping Assessment Recommendations and the IMO Mandatory Polar Code

Brigham Lawson

April 29, 13:45–15:15

92 4 B11-O04 The Nautical Institute's Way Ahead is Ice Navigation Training Assurance

Snider David

437 5 B11-O05 Maritime User Requirements at High Latitudes – First Results from the MARENOR Project

Behlke Rico

23 6 B11-O06 Fisheries and the Newly Accessible Arctic Ocean

Huntington Henry

144 7 B11-O07 The New Arctic Ocean: Implications for Research and Policy

Wassmann Paul

414 8 B11-O08 Fishing industry in Nunavut: Policy and Management

PAN MIN

April 29, 15:45–17:15

141 9 B11-O09 Svalbard zone landings shows fisheries moving north when waters heat

Misund Ole, Heggland Kristin, Gjoesaeter Harald, Loenne Ole

554 10 B11-O10 Marine Invasive Species Challenges in the Arctic

Kaiser Brooks, Fernandez Linda, Sundet Jan

- 583 11 B11-O11 The New Arctic: The Role of Science in Conservation and Management of Fisheries in an Emerging Ocean
Benton David
- 530 12 B11-O12 Networks and Governance of Arctic Shipping and Fishing: A Robust Management Approach
Pincus Rebecca
- 580 13 B11-O13 The main outcomes of Sessions B11 “Navigation and Fisheries in the Arctic: Prospects, Problems and International Policies”
Ohmura Atsumu

C01: Sharing Arctic data, observations and knowledge: understanding the global system through international exchange

Main Convener: Peter L. Pulsifer

【Oral】

April 27, 14:00–15:30

referencen	Time	Number	presentationtitle
560		C01–001	The Evolution of NSF Arctic Data Management: Challenges and Lessons Learned after Two Decades of Support Moore James, Williams Steven
398		C01–002	DEVELOPMENT OF ARCTIC DATA ARCHIVE SYSTEM (ADS) Yabuki Hironori, Sugimura Takeshi, Terui Takeshi
156		C01–003	Data Management within the Svalbard Integrated Arctic Observing System Godoey OEystein, Tronstad Stein, Vitale Vito, Schewe Ingo, Lilja Bye Bente, Hamre Torill, OErbaek Jon Boerre
467		C01–004	NORDIC RESEARCH PROGRAMME ON INTERACTION BETWEEN CLIMATE CHANGE AND CRYOSPHERE – AN EXAMPLE OF SUCCESSFUL SHARING OF RESOURCES Friberg Magnus, Kristjansson Kristjan, Shfaqat Abbas, Hautala Harri, Farbrot Herman, Sundet Jostein
339		C01–005	ARCTICCONNECT: A Platform For Knowledge Sharing And Collaboration Vossepoel Shannon
541		C01–006	Establishing an Arctic Data Network through International Collaboration Pulsifer Peter, Rachold Volker, Larsen Jan Rene, Godoy Oystein, Friddell Julie, Lappalainen Hanna, Qiu Yubao
546		C01–007	THE ARCTIC OBSERVING SUMMIT: AN ACTIVITY OF THE INTERNATIONAL STUDY OF ARCTIC CHANGE AND A SAON TASK Murray Maribeth
573		C01–008	The Global Terrestrial Network for Permafrost (GTN–P) Data Management System within the framework of the Arctic Data Interface (ADI) Lanckman Jean–Pierre, Johannsson Halldor , Karlsson Aevor, Biskaborn Boris

April 27, 16:00–17:30

232		C01–009	Development of the vessel navigation support system for sea ice area Terui Takeshi, Sugimura Takeshi, Shimizu Daisuke, Tamura Takeshi, Yabuki Hironori
352		C01–010	NASA’s Arctic Boreal Vulnerability Experiment: Accelerating Science with Big Data Cloud Technologies and Lifecycle Data Management Griffith Peter, Duffy Daniel, Hoy Elizabeth, Ambrose Stephen, McInerny Mark
227		C01–011	Development of Online Visualization Tool “VISION” Sugimura Takeshi, Terui Takeshi, Yabuki Hironori

- 20 C01-O12 Polar and Alpine Microbial Collection (PAMC): a culture collection dedicated to polar and alpine microorganisms
Lee Yung Mi
- 27 C01-O13 Barents Sea benthic fauna in a changing Sea
Jorgensen Lis, Plubin Pavel
- 600 C01-O14 The Importance of Traditional Knowledge Recognition and Involvement into The Scientific Research.
Staffansson Jannie
- 375 C01-O15 LEGAL BACKGROUND IN THE INTERNATIONAL LAW CONCERNING INDIGENOUS INTELLECTUAL PROPERTY IN THE ARCTIC
Nikanorova Liudmila
- 112 C01-O16 The Transfer of Arctic-based Research and Science Communication Methods to Tropical Contexts
Fielding Russell

C02: Arctic in Rapid Transition – future research directions from the perspective of early career scientists

Main Convener: Makoto Sampei

【Oral】

April 30, 10:45–12:15

refer Time	Number	presentationtitle
10:45–10:50		Opening remarks
312 10:50–11:05	C02–001	Understanding mechanisms controlling the Arctic environment in the Laptev Sea – Implications from Nd isotopes and rare earth elements Laukert Georgi, Frank Martin, Hathorne Ed, Wegner Carolyn, Kassens Heidi
468 11:05–11:20	C02–002	Variable pathway of the Pacific water in the Pacific sector of the Arctic Ocean MIZOBATA KOHEI
524 11:20–11:35	C02–003	Contrasting optical properties of surface waters across the Fram Strait and its potential biological implications Pavlov Alexey, Granskog Mats, Stedmon Colin, Ivanov Boris, Hudson Stephen, Falk–Petersen Stig
542 11:35–11:50	C02–004	Examining the Potential Consequences of Climate–Induced Prey Shifts on Beluga Whales in the Beaufort Sea Choy Emily, Loseto Lisa, Roth James
11:50–12:15		Discussion

April 30, 13:45–15:15

128 13:45–14:00	C02–005	Where are they now? A Case Study of International Travel Support for Early Career Researchers Majaneva Sanna, Baeseman Jenny, Fugmann Gerlis, Lisowska Maja, Christie Logvinova
283 14:00–14:20	C02–006	The Future of Permafrost Research; Contributions of Early Career Researchers from the European Conference on Permafrost to ICARPIII Sjoberg Ylva, Bouchard Frederic, Cassidy Alison, Desphande Bethany, Fritz Michael, Hogtrom Elin, Lepage Julie, Morgenstern Anne, Nieuwendam Alexandre, Oliva Marc, Paquette Michel, Rudy Ashley, Siewert Matthias, Weege Stefanie
402 14:20–14:40	C02–007	ARCTIC IN RAPID TRANSITION: INTEGRATING SPATIAL AND TEMPORAL SCALES IN THE CHANGING ARCTIC SYSTEM: TOWARDS FUTURE RESEARCH PRIORITIES Morata Nathalie, Majaneva Sanna, Findlay Helen, Fritz Michael, Kedra Monika, Nikolopoulos Anna, ORegan Matt, Pavlov Alexey, Peeken Ilka, Sampei Makoto, Werner Kristin, Wegner Carolyn
14:40–15:15		Discussion

【Poster core time】 April 29, 17:30–18:45

29	C02-P01	Development of soils for reclamation in northern diamond mines Miller Valerie, Naeth M Anne
72	C02-P02	PERMAFROST YOUNG RESEARCHERS NETWORK (PYRN): PERSPECTIVES AND PRIORITIES OF THE NEXT GENERATION ON PERMAFROST RESEARCH Lenz Josefine, Tanski George, Bevington Alexandre, Hogstrom Elin , Elena Kuznetsova, Denis Frolov, Harder Silvie , Strauss Jens, Maslakov Alexey, Schneider Andrea, Longo William, Recio Blitz Cayetana , Boris Radosavljevic, Fritz Michael, Anne Morgenstern
88	C02-P03	Testing anecdotal and scientific bryophyte propagation methods for use in arctic land reclamation Lamarre Jasmine
233	C02-P05	Tundra Reclamation: Development Of Shrub Cutting Techniques For Arctic Revegetation Ficko Sarah, Naeth M Anne
390	C02-P06	Arctic in Rapid Transition (ART) – A Pan-Arctic Network Integrating Past, Present and Future Carolyn Wegner, Kedra Monika, Findlay Helen, Fritz Michael, Majaneva Sanna, Nikolopoulos Anna, O'Regan Matt, Pavlov Alexey, Peeken Ilka, Sampei Makoto, Werner Kirstin
425	C02-P08	Parasites of Shorthorn sculpin (<i>Myoxocephalus scorpius</i>) in littoral marine habitats of Svalbard TymI Tomas, Ditrich Oleg
427	C02-P09	Communicating Arctic science through social media – experience of a researcher-driven effort of @OceanSeaIceNPI Pavlov Alexey, Granskog Mats, Hudson Stephen, Gerland Sebastian
484	C02-P10	Association of Polar and Early Career Scientists (APECS) Nordic Research Project: “Bridging Early Career Researchers and Indigenous Peoples in Nordic Countries” Juutilainen Sandra, Bull Julie, Sjoberg Ylva, Zaika Yulia, Flemming-Sharp Laura, Fugmann Gerlis
490	C02-P11	Transformation of frozen peatlands soils under the influence of cryogenic processes Ogneva Olga, Matyshak George, Goncharova Olga, Bobrick Anna

C03: Emerging questions in Arctic Geoscience

Main Convener: Victoria Pease

【Oral】

April 28, 10:45–12:15

refe	Time	Number	presentationtitle
555		C03–001	A socially relevant Arctic tectonic puzzle Pease Victoria
487		C03–002	The Eureka Deformation in the Arctic – an outline Piepjohn Karsten
378		C03–003	The Great Challenges in Arctic Ocean Paleoceanography and Scientific Drilling Stein Ruediger
504		C03–004	New data support new hypotheses about Arctic Ocean tectonics; planning expeditions for the next decade. Coakley Bernard
433		C03–005	The Anthropocene; The Arctic environment during global warming Barbante Carlo
377		C03–006	Culture and Arctic Climate Change: Integrating Long–Term Perspectives from Archaeology and the Environmental Sciences Jordan Peter, Friesen Max, Timmermans Mary Louise

【Poster core time】 April 28, 17:30–19:00

2		C03–P01	SEISMICITY, STRUCTURE AND TECTONICS IN THE ARCTIC REGION Kanao Masaki
265		C03–P02	The high resolution record of atmospheric selenium recovered from Greenland snow Lee Khanghyun, Hong Sang Bum, Lee Jeonghoon, Chung Jiwoong, Hur Soon Do, Hong Sungmin

C04: Co-design, co-production, co-communication of scientific knowledge? how to frame concerted research for sustainable development in times of change

Main Convener: Jörn Schmidt

【Oral】

April 28, 13:45–15:15

reference	Time	Number	presentationtitle
439	13:45–14:00	C04–O01	Science Plan 11 and Including Arctic Communities in Research: What has been done since ICARP II? Southcott Chris
280	14:00–14:15	C04–O02	The salience of the adaptation issue in an Arctic coastal community Dannevig Halvor, Hovelsrud Grete
328	14:15–14:30	C04–O03	Reindeer herders without reindeers: The theory and practice of ecosystem-based approach in the Russian Arctic Pristupa Alexey, Tysiachniouk Maria
435	14:30–14:45	C04–O04	Leaders at the Poles: what polar researchers can learn from managers and what can they teach them? Lisowski Bartosz, Lisowska Maja
105	14:45–15:00	C04–O05	Games in environmental education, communication and science Schmidt Joern, Nissen Dennis, Magens Michel, Voss Rudi
	15:00–15:15		Summery Comment on session

【Poster core time】 April 28, 17:30–19:00

126		C04–P01	Potential benefits and challenges of establishing two-way communication between geoscientists and community stakeholders in rural Alaska Kontar Yekaterina
512		C04–P02	Polar Educators International and its contribution to ICARP III Beck Inga, Wesche Garry, Azinhaga Patrizia, Huffman Louise

C05: Advances in Transdisciplinary Arctic Research: Progress on Building Collaborative Agendas for Research Supporting Solutions for Sustainability

Main Convener: Carolina Cavazos Guerra

【Oral】

April 30, 10:45–12:15

referTime	Number	presentationtitle
4	C05–001	Global pipelines encounter local communities in the Arctic. Research results and process from a socio-economic research program on oil field development in Northern Norway. Nilsen Trond
113	C05–002	Sustainability of human-wildlife systems in northern urbanizing regions Jochum Kim
364	C05–003	Findings from the Canadian Polar Commission’s Report on the State of Northern Knowledge in Canada File Susan
370	C05–004	ENGAGEMENT, CREATIVE DESIGN AND COLLABORATIVE STRATEGIES: LESSONS FOR A RESILIENT ARCTIC Ibarguchi Gabriela, Murray Maribeth
559	C05–005	Mine closure, local well-being and caribou livelihoods: What pathways to socio-ecological resilience in mine-impacted Inuit communities? Blangy Sylvie , Rixen Annabel
		Discussion

April 30, 13:45–15:15

Debate Panel (Trevor Bell, Volker Rachold, Timo Koivurova, TBC, TBC)

【Poster core time】 April 29, 17:30–18:45

30	C05–P01	Bilingualism and loss of native language minorities of the North Russia Myznikov Sergei
125	C05–P02	Promoting environmental and socio-economic sustainability in rural Alaska through transdisciplinary research and collaborative engagement between scientists, policy makers and stakeholders in decision-making Kontar Yekaterina
169	C05–P03	PROGRAMS OF HEALTH AND WELL-BEING IN THE ARCTIC

		Rautio Arja, Mulvad Gert
267	C05-P04	CREATION OF FEDERAL UNIVERSITY AS A RESEARCH AND EDUCATION CENTER IN NORTHEAST OF RUSSIA Nikolaev Anatoly, Mikhailova Evgenia
276	C05-P05	Monitoring of population ageing in the Arctic: tasks to translate data to stakeholders Emelyanova Anastasia
302	C05-P06	THE DYNAMICS OF EVALUATION OF LAND-USE AND LOCAL SELF-GOVERNMENT OF EVENKS IN SOUTHERN YAKUTIA (1998-2014) Lazebnik Olga, Savvinova Antonina, Filippova Viktoriya, Fondahl Gail, Poelzer Greg
345	C05-P07	The Far Eastern Floating University as the perspective way of communicating the Science and Education in the Eastern part of the Arctic Sokolova Ekaterina, Salyuk Pavel, Burov Denis, Bukin Oleg
351	C05-P08	Reindeer herding and northern ecosystems under warming climate Kayhko Jukka, Oksanen Lauri, Horstkotte Tim, Kivinen Sonja, Forbes Bruce, Johansen Bernt
539	C05-P09	APECS: A NETWORK FOR POLAR EARLY CAREER SCIENTIST PROFESSIONAL DEVELOPMENT Majaneva Sanna, Fugmann Gerlis

C06: Understanding Sustainability in the Arctic: From Patchwork to Framework

Main Convener: Andrey N. Petrov

【Oral】

April 27, 14:00–15:30

refe	Time	Number	presentationtitle
447	14:00–14:30	C06–001	Arctic Sustainability Science: Agenda 2020 Petrov Andrey, Gail Fondahl, Peter Schweitzer
45	14:30–14:45	C06–002	Adopting a framework to make sense of patchwork: The example of urban ecology Graybill Jessica
417	14:45–15:00	C06–003	Law and Sustainability in the Arctic Loukacheva Natalia
394	16:00–16:15	C06–004	Rapid Arctic Transitions due to Infrastructure and Climate (RATIC): a comparison of changes in the Prudhoe Bay Oilfield, Alaska and the Bovanenkovo Gasfield, Russia Walker Donald
	15:15–15:30		Discussion

April 27, 16:00–17:30

381	15:00–15:15	C06–005	Sustainable economic activities in the Arctic region Kornilova Anastasia
400	16:15–16:30	C06–006	Single–industry cities and settlements of Murmansk region: challenges and ways forward Zaika Yuliya, Golubeva Elena
316	16:30–16:45	C06–007	Towards coexistence of oil and gas industry with indigenous communities in the Russian Arctic Tysiachniouk Maria, Lamers Machiel
133	16:45–17:00	C06–008	LEAVE OR STAY: SETTLEMENT OF ANCESTORS UNDER NATURAL DISASTERS IN YAKUTIA Filippova Viktoriia
318	17:00–17:15	C06–009	Labour Market Outcomes of Migrant Women in Västerbotten and Norrbotten Kotyrla Elena

【Poster core time】 April 28, 17:30–19:00

- 462 17:30–17:40 C06–P01 International Geographical Union Cold Region Environments Commission: role in the Arctic Sustainability Science
Vlasova Tatiana
- 39 17:40–17:50 C06–P02 THE EFFECTS OF CLIMATE CHANGE ONTOZHU REINDEER HERDERS IN SOUTHERN SIBERIA
Arakchaa Tayana
- 129 17:50–18:00 C06–P03 Mining as a Part of Environment: Indigenous people and extractive industries in the North–West of Russia
Varfolomeeva Anna

C07: The Arctic system; changes and effects with emphasis on freshwater ecosystems

Main Convener: Alexander M. Milner

【Oral】

April 28, 10:45–12:15

refere Time	Number	presentationtitle
471	C07–001	Arctic coastal transit and cyclic aquatic systems' hydrological and geochemical particularities Fedorova Irina, Chetverova Antonina, Sidorina Inessa, Bobrova Olga, Heim Birgit, Dvornikov Yury, Skorospekhova Tatyana, Morgenstern Anne, Shumskaya
446	C07–002	Freshwater pathways in the sub-Arctic Seas from the Greenland Freshwater Experiment Dukhvskey Dmitry
158	C07–003	Fresh water and its role in the Arctic Marine System: sources, delivery, disposition, storage, export, and physical and biogeochemical consequences in the Carmack Eddy, Yamamoto Kawai Michiyo, Bacon Sheldon, Haine Thomas, Lique Camille, Melling Humfrey, Polyakov Igor, Straneo Faimma, Timmermans M
91	C07–004	The Arctic atmospheric water cycle: past and future changes and their impacts Vihma Timo, Screen James, Deser Clara, Holland Marika, Newton Brandi, Popova Valeria, Prowse Terry, Tjernstrom Michael, Walsh John, Zhang Xiangdon
192	C07–005	Arctic terrestrial hydrology: A synthesis of processes, change drivers and research challenges Bring Arvid, Fedorova Irina, Dibike Yonas, Hinzman Larry, Karlsson Johanna, Mernild Sebastian, Prowse Terry, Semenova Olga, Stuefer Sveta, Woo Ming I
222	C07–006	Epoch differences in water cycles in eastern and western Siberia during the past two centuries Kazuhiro Oshima, Koto Ogata, Hotaek Park, Yoshihiro Tachibana

April 28, 13:45–15:15

154	C07–007	Fire-caused nonstationarity of hydrological systems in cold environments: the examples from observations and modelling across Russian Siberia and Far Semenova Olga, Lebedeva Liudmila
321	C07–008	Status & Prospects of Arctic Freshwater Export Haine Thomas, Curry Beth, Gerdes Ruediger, Hansen Edmond, Karcher Michael, Lee Craig, Rudels Bert, Spreen Gunnar, de Steur Laura, Stewart Kial, Wo
343	C07–009	A study of the whole year cycles of cyanobacteria/microalgae in polar hydro-terrestrial environments Elster Josef
385	C07–010	Trace Element Biogeochemistry in Thaw Lakes: Influence of Organic Matter Canario Joao, Castanheira Leandro, Duarte Teresa, Oliveira Maria, Ascenso Jose, Araujo Maria, Vieira Goncalo, Vincent Warwick
533	C07–011	CHANGES IN POND COMMUNITY ASSEMBLAGES AT A MORaine OF RAPID RETREATING GLACIER Olafsson Jon, Magnussdottir Ragnhildur
521	C07–012	PERMAFROST LAKES IN THE ARCTIC FRESHWATER ARCHIPELAGO

Vincent Warwick, Laurion Isabelle

April 28, 15:45–17:15

- 140 C07-O13 Arcitic Freshwater Synthesis: Sources, Fluxes, Storage and Effects
Prowse Terry, Bring Arvid, Carmack Eddy, Karlsson Johanna
- 99 C07-O14 Climate change and water sources in Arctic streams; effects on physiochemical variables and biotic communities.
Milner Alexander
- 287 C07-O15 Changes to freshwater systems affecting Arctic infrastructure and natural resources
Instanes Arne
- 201 C07-O16 Arctic Hydrological Change: Major Implications for Terrestrial and Freshwater Ecosystems
Wrona Frederick, Johansson Margareta, Culp Joseph, Jenkins Alan, Karlsson Johanna, Myers Smith Isla, Prowse Terry, Vincent Warwick, Wookey Philip

【Poster core time】 April 28, 17:30–19:00

- 81 C07-P01 Water storage changes on arctic watersheds. Contribution of future SWOT mission
Zakharova Elena A, Kouraev Alexei V, Blumstein Denis, Lyon Christine
- 168 C07-P02 12 years' changes of the terrestrial water storage in the Lena River basin, eastern Siberia detected by GRACE
Suzuki Kazuyoshi
- 195 C07-P03 Increases in pan-Arctic river water temperature and heat flux to the Arctic Ocean
Park Hotaek
- 202 C07-P04 Freshwater diatom assemblages from Yakutia, Eastern Siberia: pattern, diversity, and relationship to environmental parameters
Pestryakova Ludmila
- 404 C07-P05 Thermal effects from groundwater flow – A case study from a subarctic fen within the sporadic permafrost zone of Tavvavuoma, Sweden
Sjoberg Ylva, Lyon Steve, Coon Ethan, Harp Dylan, Pannetier Romain, Frampton Andrew, Painter Scott
- 520 C07-P06 Cyanobacterial diversity along a latitudinal Arctic gradient
Velazquez David, Failde Marta, Vincent Warwick, Quesada Antonio
- 525 C07-P07 WARD HUNT LAKE: A SENTINEL ECOSYSTEM AT THE TOP OF THE CANADIAN HIGH ARCTIC
Begin Paschale, Vincent Warwick

C08: Circumpolar Arctic Coastal Communities Observatory Network: knowledge Hubs for Northern Coastal Sustainability

Main Convener: Dr. Donald L. Forbes, Memorial University

【Oral】

April 28, 15:45–17:15

refere	Time	Number	presentationtitle
453	15:45–15:51	C08–001	Knowledge hubs for northern coastal sustainability
503	15:51–15:57	C08–002	A Decade of Arctic Coastal Research
547	15:57–16:03	C08–003	ASI, AHDR, and Implications for the Circumpolar Arctic Coastal Communities Observatory Network (CACCON)
429	16:03–16:09	C08–004	Early Career Perspectives on Arctic Coastal Research Priorities
380	16:09–16:14	C08–005	Resilience in a coastal Sámi community – challenges to current and future resilience and sustainable development
536	16:14–16:20	C08–006	REGIONAL PRIORITIES AND PERSPECTIVES: EXAMPLE FROM CHUKOTKA
493	16:20–16:26	C08–007	Identifying regional and circumpolar Arctic coastal research priorities

【Poster core time】 April 28, 17:30–

143	C08–P01	Coastal indigenous communities' problems associated with permafrost changes in Eastern Chukotka
333	C08–P02	New insights into coastal erosion rates along the Yukon Coast, Canada
465	C08–P03	Morality, Practice and Economy in a Commercial Seal Hunting Community in Canada

C10: Consulting Arctic communities on research planning

Main Convener: Chris Southcott

【Oral】

April 27, 14:00–15:30

refere	Time	Number	presentationtitle
483	14:00–14:15	C10–001	The grassroots voices are getting louder: How to engage Indigenous people in the research process Bull Julie
423	14:15–14:30	C10–002	The University of the Arctic and Community Consultation on Research Planning: The Initial Results of the UCCARP Pilot Project Southcott Chris
	15:15–15:30		Questions and Discussion

【Poster core time】 April 28, 17:30–19:00

10		C10–P01	Health inequalities are unethical. Indigenous health and well-being through the lens of structural racism: A case study of Canada, Finland and Norway. Juutilainen Sandra
475		C10–P02	Toward a joint epistemology: meaningful knowledge production for local communities and academia Saxinger Gertrude

C11: Early Exploration and Exploitation and their Impact Today on Local Arctic Societies

Main Convener: Peter Sköld

【Oral】

April 27, 16:00–17:30

refere	Time	Number	presentationtitle	Presenting Author
	16:00–16:05	C11–O01	Introduction	Dr. Peter Skold
	16:05–16:20	C11–O02		
591	16:20–16:35	C11–O03	The impact of environmental change on the Arctic aboriginal population's economy—a case study of the Inuit in C.	Dr. Pan Min
604	16:35–16:50	C11–O04	Cultural onfromtation or coexistence? Indigenous peoples of the North Soviet Union between resistance and co-	Dr. Florian Stammer
592	16:50–17:05	C11–O05	Cultural heritage as we affect it and it affects us	Dr. Susan Barr
	17:05–17:20	C11–O06		
	17:20–17:30	C11–O07	concluding discussion	Dr. Peter Skold