

ISAR-4 / ICARP III

Session Program as of February 6, 2015

Please be notified that

The program will be modified without notice.

This program is consisted of "Number of Abstract", "Presentation Number" and "Names of authors.

Presenting author of each accepted abstract is required to complete a symposium registration.

Please inform the ISAR-4 secretariat in case of withdrawal.

A2: Paleoclimatic perspective on Arctic changes and polar amplification

Main Convener: Kawamura Kenji

【Oral】

April 27, 14:00–15:30

refere	Number	presentation	title
19	A02-O01	The Dynamic Arctic	Ingolfsson Olafur
562	A02-O02	A MULTIDISCIPLINARY, PAN-ARCTIC NETWORK FOR RESEARCHING ARCTIC PALAEOCLIMATE	Strand Kari, O'Cofaigh Colm
86	A02-O03	The 'Little Ice Age' warming in the West Greenland waters based on diatom microfossils	Krawczyk Diana
411	A02-O04	Arctic sea ice variability as archived by multicentury annual-resolution crustose coralline algal proxy	Halfar Jochen, Moore Ken, tMajeed Haris, Adey Walter
41	A02-O05	Insolation control on the Beaufort Gyre dynamics during the Holocene	Yamamoto Masanobu
258	A02-O06	The fleeting glaciers of the Arctic	Paasche Oyvind, Bakke Jostein

April 27, 16:00–17:30

540	A02-O07	The late Quaternary of Arctic Canada: the interplay of climate, sea-level, ice, and oceans	Pienkowski Anna, Furze Mark
544	A02-O08	The Fennoscandian ice sheet as a trigger for Dansgaard-Oeschger cycles	Nisancioglu Kerim, Dokken Trond
578	A02-O09	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	A02-O10	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	A02-O11	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	A02-O12	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, Yadrinskiy 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, Schilus Philipp, Herzschuh 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

reference Number	presentation title
568 A04-O01	Presentation Title: Neutral Dynamics in the Canadian Arctic Upper Atmosphere Ward William, Manson Alan, Shepherd Marianna, Wu Qian, Drummond James
139 A04-O02	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 A04-O03	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 A04-O04	Long-term trends in ionospheric parameters measured by the EISCAT radars Bjoland Lindis Merete, Belyey Vasyl, Loevhaug Unni Pia, La Hoz Cesar
574 A04-O05	An extensive survey of the optical structures of the dayside diffuse aurora Han Desheng, Chen Xiangcai, Qiu Qi, Hu Hongqiao, Yang Huigen

April 27, 16:00–17:30

584 A04-O06	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 A04-O07	Geospace Exploration Project: ERG Miyoshi Yoshizumi
396 A04-O08	Radiation dose of aircrews during a solar proton event without ground-level enhancement Ryuho Kataoka, Yumi Nakagawa, Tatsuhiko Sato
450 A04-O09	Coronal Behavior before the Large Flare Onset and its Impact on Earth's environment Imada Shinsuke
565 A04-O10	CME front and severe space weather Balan Nanan, Skoug R, Tulasi Ram S, Shiokawa Kazuo, Otsuka Yuichi, Batista I, Ebihara Yusuke, Nakamura Takuji

April 28, 10:45–12:15

474 A04-O11	EISCAT_3D, A New Incoherent Scatter Radar for Geospace Research in the Nordic Region Heinselmann Craig
457 A04-O12	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 A04-O13 EISCAT_3D science topics related to the Arctic geospace
Kero Johan, Belova Evgenia, Hedin Jonas, Pellinen-Wannberg Asta, Nilsson Hans
- 558 A04-O14 Seasonal variation and solar activity dependence of the quiet-time ionospheric trough
Ishida TetsuroOgawa YasunobuKadokura AkiraHiraki YasutakaHaggstrom Ingemar
- 563 A04-O15 JAPANESE SOUNDING ROCKET EXPERIMENTS IN THE ARCTIC
Abe Takumi, Saito Yoshifumi, Ishii Nobuaki

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

- 164 A04-P01 Thermosphere-mesosphere-stratosphere coupling during stratospheric sudden warmings
Orsolini Yvan, Limpasuvan Varavut, Kinnison Doug
- 293 A04-P02 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-P03 Compound auroral micromorphology: Ground-based high-speed imaging
Ryuho Kataoka, Yoko Fukuda
- 419 A04-P04 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-P05 Upper atmosphere cooling over the past 33 years
Ogawa YasunobuMotoba TetsuoBuchert StephanHaggstrom IngemarNozawa Satonori
- 451 A04-P06 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
- 576 A04-P13 VARSITI – VARIABILITY OF THE SUN AND ITS TERRESTRIAL IMPACT
Shiokawa Kazuo, Georgieva Katya
- 579 A04-P14 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: Atsumu Ohmura

【Oral】

April 30, 10:45–12:15

refereNumber	presentationtitle
255 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
298 A5-002	Evolving ice and ocean conditions in the East Siberian and Laptev Seas relevant to methane emissions Wadhams Peter
436 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
448 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 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

- | refer Number | presentationtitle |
|--------------|---|
| 357 A6-001 | Monitoring Arctic Greenhouse Gas Emissions Using Top-Down Approaches
Bruhwiler Lori, Dlugokencky Edward |
| 74 A6-002 | Regional scaling of airborne flux measurements over Arctic regions
Serafimovich Andrei, Metzger Stefan, Hartmann Joerg, Kohnert Katrin, Wieneke Sebastian, Sachs Torsten |
| 153 A6-003 | Environmental controls of methane fluxes from an Arctic river floodplain
Budishchev Artem, van Huissteden Ko, Dolman Han |
| 79 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 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 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

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| 215 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 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 A6-009 | Environmental factors regulating soil organic carbon storage in permafrost ecosystems
Fujii Kazumichi, Matsuura Yojiro, Osawa Akira |
| 529 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 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 A6-012 | Enhancement of hydroclimatic impacts on permafrost environment in eastern Siberia |

Iijima Yoshihiro, Park Hotaek, Fedorov Alexander

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

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- 47 A6–O19 GRENE–TEA Model Intercomparison Project (GTMIP) Stage 1
Saito Kazuyuki, Miyazaki Shin, Mori Junko, Yamazaki Takeshi, Ise Takeshi, Sueyoshi Tetsuo
- 244 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 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 A6–O22 Forward and inverse modelling of greenhouse gases in the Arctic and subarctic regions
Belikov Dmitry, Shamil Maksyutov, Takagi Hirosh, Ganshin Alexander, Zhuravlev Ruslan
- 214 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 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, Svalbard
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 C H₄ 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 its potential effects on warming climate
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
- 489 A6-P18 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

- | refereNumber | presentationtitle |
|--------------|--|
| 28 | B01-001 DYNAMICS OF THE ARCTIC OSCILLATION AS A DOMINANT INTERNAL VARIABILITY AND A POSSIBLE LINK TO THE WARMING HIATUS
Tanaka Hiroshi |
| 56 | B01-002 Is the Jet Stream Becoming Wavier in Response to Rapid Arctic Warming?
Francis Jennifer, Vavrus Stephen |
| 77 | B01-003 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 | B01-004 Arctic impacts on mid-latitude weather and climate: The research challenge
Walsh John |
| 104 | B01-005 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 |

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| 46 | B01-006 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 | B01-007 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 | B01-008 RECENT RAPID ARCTIC CHANGE AND ITS INFLUENCE ON EAST ASIA WEATHER
Kim Seong Joong |
| 506 | B01-009 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 | B01-010 Greenland blocking as a mechanism for recent Arctic/mid-latitude weather linkages
Overland James, Hanna Edward |

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| 127 | B01-011 Robust Arctic sea-ice influence on the frequent Eurasian cold winters in past decades
Masato Mori, Masahiro Watanabe, Hideo Shiogama, Jun Inoue, Masahide Kimoto |
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- 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

- | refere Number | presentationtitle |
|---------------|---|
| 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, Sweatte Clifford, Reiersen Lars Otto |

April 27, 16:00–17:30

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| 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

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| 306 | B02–011 Arctic Ocean Boundary Array: cornerstone of Arctic monitoring
Bacon Sheldon, Tsubouchi Takamasa, Aksenov Yevgeny |
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- 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, Okhlopov 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

refere Number presentationtitle

132 B3–001 Environmental History of Yakutia and the Permafrost:
Rural Residents' Perceptions of the Permafrost and It's 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 alaa 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, Sjoeborg 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, Johansson Haldor

Panel: Future challenges for the permafrost research community

April 29, 15:45–17:15

497 B3–009 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, Wilmking 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

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| 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 Russia-Japan collaborative studies on geographic and ecological changes of large mammal fauna in the arctic and sub-arctic Yakutia.
TATSUZAWA Shirow, Okhlopov 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

refere	Number	presentationtitle
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 Gijis, Shupe Matthew, Turner David, Garrett Timothy, Zhao Chuanfeng
155	B05–003	EUMETSAT OSISAF irradiance products Godoey 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, Raynolds 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	B05–012	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 (NDVIu) 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

57 Estimating Supraglacial Lake Depth with Landsat 8
Pope Allen, Scambos Ted, Moussavi Mahsa, Tedesco Marco, Willis Mike

94 FIELD AND REMOTE SENSING EVIDENCE OF PERMAFROST DEGRADATION ASSOCIATED WITH THERMOKARST AFTER TUNDRA FIRES IN ALASKA
Iwahana Go, Uchida Masao, Harada Koichiro, Narita Kenji, Saito Kazuyuki, Kushida Keiji, Tsuyuzaki Shiro, Hinzman Larry

216 Seasonal decoupling between vegetation greenness and function over northern high latitude forests
JEONG SUJONG

481 Synoptic conditions associated with snowfall in Arctic
Chatterjee Sourav, Murukesh Nuncio, Karathazhiyath Satheesan

535 Using Suomi NPP night-lights imagery to assess industrial and military developments in the Russian Arctic
Bennett Mia

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

refere Number	presentationtitle
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 BUEAFORT 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 Garin, Campbell Robert, Okkonen Stephen, Alatalo Philip, Bahr Frank
200 B06–012	SHORT-TERM CHANGES OF MESOZOOPLANKTON 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
- 146 B06-P06 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-P07 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
- 430 B06-P08 Hydrochemical regime of the Pechora River in present-day conditions of anthropogenic impact
Alexeev Denis
- 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
- 517  SPATIO-TEMPORAL VARIATIONS OF BENTHIC ACTIVITIES IN TWO CONTRASTED HIGH ARCTIC FJORDS (KONGSFJORDEN AND RIJPFJORDEN, SVALBARD)
Morata Nathalie

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

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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

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- 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

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- 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

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- 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

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- 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

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 |

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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

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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

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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】

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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

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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 KeithStraneo, FiammaMuenchow, AndreasAndresen, CamillaHamilton, GordonRoberts, DavidHuhn OliverScheinert, Mirkovan der Loeff, Michiel Rutgers
511	B10–012 Strategy for future research to investigate ice–ocean interaction in Greenland

Humbert Angelika

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- 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 Alexay, 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

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- 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】

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refereNumber presentationtitle

590 B11-001 CHANGES IN ARCTIC SEA ICE CHARACTERISTICS AND THEIR IMPACT ON NAVIGATION

Wadhams Peter

566 B11-002 Research on navigation support system for the Arctic sea routes

Yamaguchi Hajime

180 B11-003 Strategic Overview of Implementing the Arctic Marine Shipping Assessment Recommendations and the IMO Mandatory Polar Code

Brigham Lawson

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92 B11-004 The Nautical Institute's Way Ahead is Ice Navigation Training Assurance

Snider David

437 B11-005 Maritime User Requirements at High Latitudes – First Results from the MARENOR Project

Behlke Rico

23 B11-006 Fisheries and the Newly Accessible Arctic Ocean

Huntington Henry

144 B11-007 The New Arctic Ocean: Implications for Research and Policy

Wassmann Paul

414 B11-008 Fishing industry in Nunavut: Policy and Management

PAN MIN

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141 B11-009 Svalbard zone landings shows fisheries moving north when waters heat

Misund Ole, Heggland Kristin, Gjoesaeter Harald, Loenne Ole

554 B11-010 Marine Invasive Species Challenges in the Arctic

Kaiser Brooks, **Fernandez Linda**, **Sundet Jan**

583 B11-011 The New Arctic: The Role of Science in Conservation and Management of Fisheries in an Emerging Ocean

Benton David

- 530 B11-O12 Networks and Governance of Arctic Shipping and Fishing: A Robust Management Approach
Pincus Rebecca
- 580 B11-O13 The main outcomes of Sessions B11 “Navigation and Fisheries in the Arctic: Prospects, Problems and International Policies”
Ohmura Atsumu