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### 1. The entire program

<table>
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<tr>
<th>Facility (Capacity)</th>
<th>Main Hall (625)</th>
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- **Side meeting**
- **Closed meeting**

IASC: The International Arctic Science Committee
IASC AWG: IASC Atmosphere Working Group
IASC CWG: IASC Cryosphere Working Group
IASC MWG: IASC Marine Working Group
IASC SHWG: IASC Social and Human Sciences Working Group
IASC TWG: IASC Terrestrial Working Group

AFoPS: The Asian Forum for Polar Sciences
APECS: The Association of Polar Early Career Scientists
EPB: European Polar Board
FARO: Forum of Arctic Research Operators
IASSA: International Arctic Social Science Association
ISIRA: International Science Initiative in the Russian Arctic
MOSAiC: Multidisciplinary drifting Observatory for the Study of Arctic Climate
NRF: Northern Research Forum
NySMAC: Ny-Ålesund Science Managers Committee
PAG: Pacific Arctic Group
PaSCAS: The Partnership between the Scientific Community and Arctic Stakeholders
SIOS: Svalbard Integrated Earth Observing System
UArctic: University of the Arctic

**<Coffee break schedule>**
April 23-27…………………………….10:30, 13:30, 15:30
April 28-30…………………………….10:15, 13:15, 15:15
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| Side meeting | Closed meeting |
<Session Title>

A1. Understanding the Arctic climate change and its global influences: Japan's contributions and suggestions for the future
A2. Paleoclimatic perspective on Arctic changes and polar amplification
A4. Geospace over and related to the Arctic region
A5. The Climatic Threat from Arctic Offshore Methane
A6. Climate and ecosystem vulnerability in the terrestrial northern high-latitudes
B1. Arctic Climate Change and Potential Mid-latitude Weather Linkages: Large-scale Atmospheric Circulation and Storm Track Dynamics
B2. Current and Future Observing Strategies for Understanding the Evolving Arctic Climate and Ecological System
B3. Changing permafrost and its impact on the physical, ecological, economic and cultural Earth system
B4. Arctic snow cover changes and their consequences
B5. Remote Sensing of the Arctic System
B6. A Pan-Arctic Challenge: Predicting the Future of Marine Biota and Ecosystem Connectivity Through Field Studies and Data Integration
B7. Atmosphere-ocean-ice interactions and aspects related to a future, seasonally ice free Arctic Ocean
B8. From human security to geopolitical dynamics in the Global Arctic: the global implications of rapid environmental, economic, and societal change
B9. Arctic Governance, Sustainable Development of Local Communities and Non-Arctic State’s Contribution
B10. (A3) Ice mass loss in Greenland and Arctic glaciers under the influence of changing atmosphere and the ocean
B11. (C9) Navigation and Fisheries in the Arctic: Prospects, Problems and International Policies
C1. Sharing Arctic Data, Observations and Knowledge: Understanding the Global System through International Exchange
C2. Arctic in Rapid Transition - future research directions from the perspective of early career scientists
C3. Emerging questions in Arctic Geoscience
C4. Co-design, co-production, co-communication of scientific knowledge? how to frame concerted research for sustainable development in times of change
C5. Advances in Transdisciplinary Arctic Research: Progress on Building Collaborative Agendas for Research Supporting Solutions for Sustainability
C6. Understanding Sustainability in the Arctic: From Patchwork to Framework
C7. The Arctic system; changes and effects with emphasis on freshwater ecosystems.
C8. Circumpolar Arctic Coastal Communities Observatory Network: knowledge hubs for northern coastal sustainability
C10. Consulting Arctic Communities on Research Planning
C11. Early Exploration and Exploitation and their Impact Today on Local Arctic Societies

<Poster Session>
First group: A1, A2, A4, B2, B6, B9, C3, C4, C6, C7, C8, C10
   Set up: April 27, 12:30-
   Core time: April 28, 17:30-19:00
   Removal: April 28, -19:00
Second group: A6, B1, B3, B4, B5, B7, B8, B10, C2, C5
   Set up: April 28, 9:00-
   Core time: April 29, 17:30-18:45
   Removal: April 30, -13:45
2. Session Program

Program for the Fourth International Symposium on the Arctic Research (ISAR-4) / The third International Conference on Arctic Research Planning (ICARP III)

Opening session

April 27 (Monday) 09:00-12:30, Main Hall

09:00-09:45 Opening remarks
- Kazuyuki Shiraishi, Chair, ASSW2015 Local Organizing Committee
- Susan Barr, President, International Arctic Science Committee
- Takashi Ohnishi, President, Science Council of Japan
- Motoyuki Fujii, State Minister, Ministry of Education, Culture, Sports, Science and Technology
- TBD, Ministry of Foreign Affairs of Japan
- Tadahiko Ito, a member of the House of Representatives
- Ryuichi Ishii, Governor of Toyama Prefecture

09:55-10:40 Distinguished Scientist Presentation: Christopher Rapley, Professor, University College London

10:40-11:00 Coffee Break

11:00-11:15 Introduction of ICARP III: David Hik, Chair

11:15-11:30 Introduction of ISAR-4: Atsuko Sugimoto, Chair

11:30-12:30 IASC History Panel
1. Introduction to the IASC History Publication - Volker Rachold, Executive Secretary, International Arctic Science Committee
2. Panel Discussion
- Odd Rogne, Executive Secretary 1991-2005
- Louwrens Hacquebord, Council Member 1992- (Vice President 2000-2008)
- Byong Kwon Park, Council Member 2002- (Vice President 2004-2012)
- Vladimir Pavlenko, Council Member 2001- (Vice President 2014-)
- Kristján Kristjánsson, Council Member 1999-2010 (President 2006-2010, Vice President 2002-2006)

Closing session

April 30 (Thursday) 15:45-17:00, Main Hall

15:45-16:20 Closing remarks
- Susan Barr, President, International Arctic Science Committee
- Atsuko Sugimoto, Chair, ISAR-4
- David Hik, Chair, ICARPIII

16:20-16:30 Poster Award

16:30-16:40 Handing out the ASSW cloth from ASSW 2015 LOC to ASSW 2016 LOC

16:40-16:50 Speech of ASSW2016 LOC, Larry Hinzman, Chair

16:50-17:00 Closing address: Kazuyuki Shiraishi, Chair, ASSW2015 Local Organizing Committee

17:00 Close

Keynote Speech at the Plenary Session

April 28 (Tuesday), Main Hall
09:00-09:35 TBD
09:40-10:15 Takashi Yamanouchi, Project Manager of GRENE-Arctic project of Japan, National Institute of Polar Research

April 29 (Wednesday), Main Hall
09:00-09:35 Margareta Johansson, Researcher, Lund University
09:40-10:15 Gunn-Britt Retter, Head of Arctic and Environmental Unit, Saami Council

April 30 (Thursday), Main Hall
09:00-09:35 Jacqueline Grebmeier, IASC Medalist, University of Maryland
09:40-10:15 Hannu Halinen, Arctic Ambassador of Finland
Oral session

*" signifies the presenter.

A1: Understanding the Arctic climate change and its global influences: Japan's contributions and suggestions for the future

Main Convener: Kumiko Takata

April 28 (Tuesday), Room 202, 13:45-15:15

Chair: Takashi Yamanouchi

13:45-13:55  INTRODUCTION OF THE SESSION
H. Enomoto

13:55-14:15  A01-O01  TOWARDS AN ICE-FREE ARCTIC OCEAN IN SUMMERTIME
J. C. Gascard*, M. Rafizadeh

14:15-14:30  A01-O02  A MODELING STUDY ON THE INFLOW OF THE ATLANTIC WATER AT THE FRAM STRAIT
T. Kawasaki*, H. Hasumi

14:30-14:45  A01-O03  THE EFFECT OF REMOTE FORCING AND LOCAL FEEDBACK ON THE ARCTIC WARMING UNDER THE ELEVATED ATMOSPHERIC CO2 CONCENTRATION
M. Yoshimori*, A. Abe-Ouchi

14:45-15:00  A01-O04  MODULATION OF THE ARCTIC LINKAGES ON ATMOSPHERIC ENERGY TRANSPORT IN NORTHERN HIGH LATITUDES

15:00-15:15  A01-O05  GLACIER DYNAMICS NEAR THE CALVING FRONT OF BOWDOIN GLACIER, NORTHWESTERN GREENLAND

April 28 (Tuesday), Room 202, 15:45-17:15

Chair: Kumiko Takata

15:45-16:00  A01-O06  A BIOLOGICAL CONTRIBUTION TO PARTIAL PRESSURE OF CO2 IN THE WESTERN ARCTIC OCEAN AND BERING SEA

16:00-16:15  A01-O07  CONTINUOUS MEASUREMENTS OF THE ATMOSPHERIC O2/N2 RATIO AT NY-ÅLESUND, SVALBARD
D. Goto*, S. Morimoto, S. Aoki, T. Nakazawa, P. K. Patra

16:15-16:30  A01-O08  SPATIAL AND TEMPORAL PATTERNS ON TREE-RING DELTA-13C AND TREE GROWTH OVER THE PAST 100 YEARS IN CIRCUM-ARCTIC ECOSYSTEMS
S. Tei*, A. Sugimoto, M. Liang, Y. Matsuura, A. Osawa, H. Yonenobu, T. C. Maximov

16:30-16:45  A01-O09  IMPACTS OF FUTURE CLIMATE CHANGE ON ARCTIC TERRESTRIAL ECOSYSTEMS: AN ANALYSIS BASED ON ISI-MIP
A. Ito*, H. Noda, K. Nishina

16:45-17:00  A01-O10  DETECTION OF TRENDS IN CO2 VERTICAL PROFILES DUE TO BIOSPHERIC AND ANTHROPOGENIC FLUX CHANGE

17:00-17:15  A01-O11  EFFECTS OF BLACK CARBON ON THE CLIMATE OF THE ARCTIC - CURRENT STUDIES AND FUTURE PLANNING -
Y. Kondo*, M. Koike, J. Ukita

A2: Paleoclimatic perspective on Arctic changes and polar amplification

Main Convener: Kenji Kawamura

April 27 (Monday), Room 201, 14:00-15:30

Chair: Masanobu Yamamoto, Keiji Kawamura

14:00-14:15  A02-O01  THE DYNAMIC ARCTIC
O. Ingolfsson*

14:15-14:30  A02-O02  A MULTIDISCIPLINARY, PAN-ARCTIC NETWORK FOR RESEARCHING ARCTIC PALAEOCLIMATE
K. O. Strand*, C. O’Cofaigh

14:30-14:45  A02-O03  INTRODUCTION OF “LONG-TERM PLAN FOR ARCTIC ENVIRONMENTAL RESEARCH, THEME 6: FUTURE ARCTIC ENVIRONMENT EXPLORED FROM PALEOENVIRONMENTAL RECORDS” OF JAPAN
K. Kawamura*

14:45-15:00  A02-O04  THE ‘LITTLE ICE AGE’ WARMING IN THE WEST GREENLAND WATERS BASED ON DIATOM MICROFOSSILS
D. W. Krawczyk*, A. Witkowski, M. Moros, T. Juul-Pedersen, K. Arendt, J. Mortensen
INSOLATION CONTROL ON THE BEAUFORT GYRE DYNAMICS DURING THE HOLOCENE

THE FLEETING GLACIERS OF THE ARCTIC
O. Paasche*, J. Bakke

THE LATE QUATERNARY OF ARCTIC CANADA: THE INTERPLAY OF CLIMATE, SEA-LEVEL, ICE, AND OCEANS
A. J. Pienkowski*, M. F. A. Furze

THE FENNOSCANDIAN ICE SHEET AS A TRIGGER FOR DANSGAARD-OESCHGER CYCLES
K. H. Nisanciglu*, T. M. Dokken

THE INFLUENCE OF GLACIAL ICE SHEETS ON ATLANTIC MERIDIONAL OVERTURNING CIRCULATION THROUGH ATMOSPHERIC CIRCULATION CHANGE UNDER GLACIAL CLIMATE
S. Sherriff-Tadano*, A. Abe-Ouchi, M. Yoshimori, A. Oka, W.-L. Chan

VARIABILITY OF TERRESTRIAL BIOGENIC IONS OVER THE PAST 128,000 YEARS FROM A DEEP ICE CORE DRILLED AT NEEM, GREENLAND

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
Y. Sun*, T. Zhou, G. Ramstein, C. Contoux, Z. Zhang

The role of energetic particle precipitation in coupling between geospace environment, atmosphere and climate
E. Turunen*, A. Kero, P. Verronen, A. Seppala, M. Andersson, S.-M. Salmi, C. Rodger, M. Clilverd

Radiation dose of aircrews during a solar proton event without ground-level enhancement
R. Kataoka*, Y. Nakagawa, T. Sato

Coronal behavior before the large flare onset and its impact on earth's environment
S. Imada

CME front and severe space weather

An extensive survey of the optical structures of the dayside diffuse aurora
D. Han*, X. Chen, Q. Qiu, H. Hu, H. Yang
A5: The Climatic Threat from Arctic Offshore Methane

Main Convener: Peter Wadhams

April 30 (Thursday), Room 205, 10:45-12:15

Chair: Peter Wadhams, Jeremy Wilkinson

10:45-11:15  A05-O01  DECADAL PROGRESS IN QUANTITATIVE ESTIMATE OF METHANE FLUXES FROM THE EAST SIBERIAN ARCTIC SHELF  
N. Shakhova*, I. Semiletov, V. Yusupov, A. Saltyuk, A. Salomatin, D. Chernykh, D. Kosmach, O. Gustafsson

11:15-11:30  A05-O02  EVOLVING ICE AND OCEAN CONDITIONS IN THE EAST SIBERIAN AND LAPTEV SEAS RELEVANT TO METHANE EMISSIONS  
P. Wadhams*

11:30-11:45  A05-O03  GAS HYDRATE STABILITY ZONE ASSOCIATED WITH SUBSEA PERMAFROST THAWING IN THE CANADIAN BEAUFORT SEA INFERRED FROM MARINE HEAT FLOW MEASUREMENTS  
Y.-G. Kim*, Y. K. Jin, J. K. Hong

11:45-12:00  A05-O04  RELATIONSHIP BETWEEN CH4 AND CO2 IN THE SURFACE SEAWATER IN THE WESTERN ARCTIC OCEAN  

12:00-12:15  A05-O05  METHANOGENETIC DIVERSITY AND ACTIVITY IN THE FOREHEAD OF AUSTRE LOVÉNBRÆNEN AND MIDRE LOVÉNBRÆNEN GLACIER  
H. Ma*, Y. Zhang, X. Chen, W. Yan

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

Main Convener: Yoshihiro Iijima

Subtitle: Terrestrial Carbon source and evaluation:

April 29 (Wednesday), Conference Room, 13:45-15:15

Chair: Yongwon Kim

13:45-14:03  A06-O01  MONITORING ARCTIC GREENHOUSE GAS EMISSIONS USING TOP-DOWN APPROACHES  
L. M. Bruhwiler*, E. J. Dlugokencky

14:03-14:21  A06-O02  REGIONAL SCALING OF AIRBORNE FLUX MEASUREMENTS OVER ARCTIC REGIONS  
A. Serafimovich*, S. Metzger, J. Hartmann, K. Kohnert, S. Wieneke, T. Sachs

14:21-14:39  A06-O03  CHANGES IN ARCTIC AND BOREAL TERRESTRIAL ECOSYSTEMS FROM 1981-2010: COMPARISONS BETWEEN A GLOBAL EARTH SYSTEM MODEL AND OBSERVATIONS  
T. Diehl*, A. Cescatti, G. Duveiller, R. Alkama

14:39-14:57  A06-O04  SURFACE ENERGY AND GREEN-HOUSE-GAS FLUX MEASUREMENTS AT A TUSSOCK TUNDRA SITE, COUNCIL, ALASKA  
S. J. Park*, J. I. Yoo, N. Y. Chae, B. Y. Lee

14:57-15:15  A06-O05  A STOCHASTIC MODEL FOR THE POLYGONAL TUNDRA BASED ON POISSON-VORONOI DIAGRAMS  
Subtitle: Super sites observations and iLEAPS:

April 29 (Wednesday), Conference Room, 15:45-17:15
Chair: Kazuyuki Saito

15:45-16:03  A06-O06  EFFECT OF N FERTILIZATION AND ROOT CUT TREATMENT ON SOIL RESPIRATION IN A LARIX GMELINII FOREST IN CENTRAL SIBERIA

16:03-16:21  A06-O07  ENVIRONMENTAL FACTORS REGULATING SOIL ORGANIC CARBON STORAGE IN PERMAFROST ECOSYSTEMS
K. Fuji*, Y. Matsuura, A. Osawa

16:21-16:39  A06-O08  PROCESSES IMPACTING ATMOSPHERE-SURFACE EXCHANGES AT ARCTIC TERRESTRIAL SITES
O. Persson*, A. Grachev, E. Konopleva, C. Cox, R. Stone, S. Crepinsek, M. Shupe, T. Uttal

16:39-16:57  A06-O09  CENTRAL YAKUTIA AS ONE OF KEY AREAS FOR STUDYING RAPID PERMAFROST CHANGES UNDER CURRENT CLIMATIC CONDITIONS

16:57-17:15  A06-O10  ENHANCEMENT OF HYDROCLIMATIC IMPACTS ON PERMAFROST ENVIRONMENT IN EASTERN SIBERIA
Y. Iijima*, H. Park, A. N. Fedorov

Subtitle: Changes in water and material cycling of permafrost ecosystem:

April 30 (Thursday), Conference Room, 10:45-12:15
Chair: Yojiro Matsuura

10:45-11:03  A06-O11  MEMORY EFFECTS FOR EXISTENCE OF SURFACE PERMAFROST IN EASTERN SIBERIA UNDER WARMING TEND
H. Sato*, G. Iwahana, T. Ohta

11:03-11:21  A06-O12  LONG-TERM VARIATION OF ANOMALY IN ABOVEGROUND BIOMASS IN CIRCUMPOLAR BOREAL FORESTS
A. Osawa*, Y. Haga, S. Fujii, N. Kurachi

11:21-11:39  A06-O13  DENDROCHRONOLOGICAL STUDIES OF THERMOKARST DEPRESSIONS DEVELOPMENT IN CENTRAL YAKUTIA (NORTHERN EASTERN RUSSIA)
A. Nikolaev*

11:39-11:57  A06-O14  IS TUNDRA PRODUCTIVITY RESPONSIVE TO CHANGES IN SEA ICE EXTENT IN THE ARCTIC?
M. Macias-Fauria*, B. C. Forbes

11:57-12:15  A06-O15  RECENT CHANGES IN TERRESTRIAL CO2 FLUXES IN SIBERIA INFERRED FROM MULTIPLE BOTTOM-UP ESTIMATIONS

Subtitle: Intercomparison in modeling and datasets for the terrestrial Arctic:

April 30 (Thursday), Conference Room, 13:45-15:15
Chair: Tetsuya Hiyama

13:45-14:03  A06-O16  GRENE-TEA MODEL INTERCOMPARISON PROJECT (GTMIP) STAGE 1
K. Saito*, S. Miyazaki, I. Mori, T. Yamazaki, T. Ise, T. Sueyoshi

14:03-14:21  A06-O17  PERMAFROST AND HYDROLOGICAL RESPONSE TO THE OBSERVED AND POTENTIAL CLIMATE CHANGE IN THE RUSSIAN ARCTIC DISCONTINUOUS PERMAFROST ZONE
L. Lebedeva*, O. Semenova, N. Tananaev

14:21-14:39  A06-O18  EXAMINING THE CONTRIBUTION OF REPRODUCTIVE TRAITS TO ARCTIC SHRUB EXPANSION PATTERNS USING SPATIALLY-EXPLICIT SIMULATION MODELLING
A. T. Naito*, D. M. Cairns, R. M. Feldman, W. E. Grant

14:39-14:57  A06-O19  FORWARD AND INVERSE MODELLING OF GREENHOUSE GASES IN THE ARCTIC AND SUBARCTIC REGIONS
D. Belikov*, M. Shamil, H. Takagi, A. Ganshin, R. Zhuravlev

14:57-15:15  A06-O20  TUNDRA BURNING IN 2007: DID SEA ICE RETREAT MATTER?
V. Alexeev*, E. Euskirchen, J. Cherry, R. Busey
B1: Arctic Climate Change and Potential Mid-latitude Weather Linkages: Large-scale Atmospheric Circulation and Storm Track Dynamics

Main Convener: James E. Overland

April 29 (Wednesday), Room 201, 10:45-12:15

Chair: James E. Overland

B01-O01  DYNAMICS OF THE ARCTIC OSCILLATION AS A DOMINANT INTERNAL VARIABILITY AND A POSSIBLE LINK TO THE WARMING HIATUS
  H. L. Tanaka

B01-O02  IS THE JET STREAM BECOMING WAVIER IN RESPONSE TO RAPID ARCTIC WARMING?
  J. Francis*, S. Vavrus

B01-O03  REGIONAL AND GLOBAL INTERACTIONS BETWEEN ARCTIC SEA ICE AND THE ATMOSPHERIC CIRCULATION
  K. Dethloff*, D. Handorf, R. Jaiser, A. Rinke, B. Crasemann, W. Dorn

B01-O04  ARCTIC IMPACTS ON MID-LATITUDE WEATHER AND CLIMATE: THE RESEARCH CHALLENGE
  J. E. Walsh*, T. Vilma

B01-O05  INTENSIFIED LINKAGE BETWEEN ARCTIC CLIMATE CHANGE AND MIDLATITUDE EXTREME EVENTS: ROLE OF ATMOSPHERIC CIRCULATION AND STORM TRACK DYNAMICS

DISCUSSION

April 29 (Wednesday), Room 201, 13:45-15:15  

Chair: Xiangdong Zhang

B01-O06  A NEGATIVE PHASE SHIFT OF THE WINTER AO/NAO DUE TO THE RECENT ARCTIC SEA-ICE REDUCTION IN LATE AUTUMN

B01-O07  IMPACT OF SNOW COVER AND SEA ICE ON SUB-SEASONAL TO SEASONAL PREDICTIONS IN THE ARCTIC
  Y. Orsolini*, R. Senan, G. Balsamo, A. Weisheimer, F. Vitart, F. D. Reyes

B01-O08  RECENT RAPID ARCTIC CHANGE AND ITS INFLUENCE ON EAST ASIA WEATHER
  S. J. Kim*, B. M. Kim, S. H. Woo, J. H. Kim

B01-O09  SPATIAL-TEMPORAL PATTERNS OF THE COLD SURGE EVENTS IN CHINA IN RECENT 50 YEARS AND ITS RELATIONSHIP WITH ARCTIC SEA ICE
  F. Huang*, C. Zhu

B01-O10  GREENLAND BLOCKING AS A MECHANISM FOR RECENT ARCTIC/MID-LATITUDE WEATHER LINKAGES
  J. E. Overland*, E. Hanna

DISCUSSION

April 29 (Wednesday), Room 201, 15:45-17:15

Chair: Seong-Joong Kim

B01-O11  ROBUST ARCTIC SEA-ICE INFLUENCE ON THE FREQUENT EURASIAN COLD WINTERS IN PAST DECADES
  M. Mori*, M. Watanabe, H. Shiohama, J. Inoue, M. Kimoto

B01-O12  THE EXTREME EUROPEAN COLD SPELL IN 2011/12 WINTER. PART I: ROLES OF ROSSBY WAVE TRAINS AND STORM TRACK FEEDBACK
  L. Wang*, H. Nakamura, K. Nishii

B01-O13  POTENTIAL ARCTIC IMPACTS ON THE NORTH ATLANTIC JET STREAM
  R. J. Hall*, E. Hanna

B01-O14  THE EFFECT OF DOWNWELLING LONGWAVE RADIATION ON ARCTIC SUMMER SEA ICE
  M.-L. Kapsch*, R. G. Graversen, M. Tjernström, T. Economou, R. Bintanja

B01-O15  THE STRUCTURE AND DEVELOPMENT OF ARCTIC CYCLONES
  T. Aizawa*, H. Tanaka

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

Main Convener: Gijs de Boer

April 27 (Monday), Room 203, 14:00-15:30

Chair: Gijs de Boer, Leif Anderson

14:00-14:18 B02-O01 ENHANCING PROCESS UNDERSTANDING IN THE COUPLED ARCTIC ATMOSPHERE-OCEAN-ICE SYSTEM THROUGH MOSAIC
M. D. Shupe*, K. Dethloff, the MOSAiC planning consortium

14:18-14:36 B02-O02 TOWARDS A COORDINATED RESEARCH AND MONITORING PROGRAM FOR NY-ÅLESUND
C. A. Pedersen*, G. W. Geir

14:36-14:54 B02-O03 THE GLOBAL CRYOSPHERE WATCH (GCW) SURFACE OBSERVATIONS PROGRAMME CRYONET
W. Schoener*, B. Goodison, J. Key, C. Fierz, A. Snorrason

14:54-15:12 B02-O04 THE SVALBARD INTEGRATED ARCTIC EARTH OBSERVING SYSTEM (SIOS); IMPLEMENTATION AND MAIN ASSETS OF THE SIOS KNOWLEDGE CENTRE

15:12-15:30 B02-O05 OPENING THE ARCTIC AIRSPACE FOR UNMANNED AIRCRAFT
R. Storvold, C. Sweatste, L. O. Reiersen

April 27 (Monday), Room 203, 16:00-17:30

Chair: Jacqueline Grebmeier, Gijs de Boer

16:00-16:18 B02-O06 INTERNATIONAL ARCTIC SYSTEMS FOR OBSERVING THE ATMOSPHERE (IASOA) – CREATING A COLLABORATION PLATFORM FOR PAN-ARCTIC RESEARCH
S. Starkweather*, T. Uttal

16:18-16:36 B02-O07 TRACING ARCTIC HYDROLOGY WITH OBSERVATIONS OF WATER VAPOR ISOTOPES FROM IN SITU, AIRBORNE, AND SATELLITE PLATFORMS
J. Cherry*, E. Klein, R. Herman, J. Young, J. Leffler, J. Worden, J. Welker

16:36-16:54 B02-O08 AN ATMOSPHERE FLAGSHIP PROGRAMME FOR NY-AALESUND, SVALBARD AND BEYOND
R. Neuber*, C. A. Pedersen

16:54-17:12 B02-O09 SHIP-BASED ATMOSPHERIC AND SEA-STATE MEASUREMENTS TO SUPPORT THE PACIFIC ARCTIC GROUP (PAG) CLIMATE OBSERVING SYSTEM

17:12-17:30 B02-O10 IMPACT OF RADIOSONDE OBSERVATION ON A SUMMER-TIME ARCTIC CYCLONE FORMATION FORECAST
A. Yamazaki*, J. Inoue, K. Dethloff, M. Maturilli, G. König-Langlo

April 28 (Tuesday), Room 203, 10:45-12:15

Chair: Leif Anderson, Terry Callaghan

10:45-11:03 B02-O11 ARCTIC OCEAN BOUNDARY ARRAY: CORNERSTONE OF ARCTIC MONITORING
S. Bacon*, T. Tsubouchi, Y. Aksenov

11:03-11:21 B02-O12 THE DISTRIBUTED BIOLOGICAL OBSERVATORY: A LATITUDINAL DETECTION ARRAY FOR TRACKING ECOSYSTEM CHANGE IN THE PACIFIC ARCTIC
J. M. Grebmeier*, L. W. Cooper, K. E. Frey, T. Kikuchi, S. E. Moore, S. Vagle


11:39-11:57 B02-O14 YEAR-LONG, DAILY-SCALE ECOSYSTEM OBSERVATIONS UNDER PERENNIAL ICE COVER IN THE ARCTIC OCEAN
S. Laney*, J. Toole, R. Krishfield, M. L. Timmermans

11:57-12:15 B02-O15 SIZONET: MULTI-PURPOSE, MULTI-PLATFORM OBSERVATIONS TO INFORM RESPONSES TO AN ARCTIC SEA ICE COVER IN TRANSFORMATION

April 28 (Tuesday), Room 203, 13:45-15:15

Chair: Terry Callaghan, Martin Raillard

13:45-14:03 B02-O16 A WORLD CLASS TERRESTRIAL RESEARCH INFRASTRUCTURE: BRINGING THE SCIENTIFIC COMMUNITY TOGETHER IN REMOTE, COLD REGIONS
M. Johansson*, T. V. Callaghan
B3: Changing permafrost and its impact on the physical, ecological, economic and cultural Earth system

Main Conveners: Ylva Sjöberg

April 29 (Wednesday), Room 202, 11:00-12:15

Chair: Ylva Sjöberg

11:00-11:15 B03-O01 THE LIMIT OF PASTORAL ADAPTATION TO PERMAFROST REGION UNDER GLOBAL WARMING: THE SAKHA PEOPLE IN THE MIDDLE BASIN OF LENA RIVER
H. Takakura

11:15-11:30 B03-O02 TOWARDS SYSTEMATIC APPROACHES FOR INTERDISCIPLINARY GLOBAL CHANGE RESEARCH: THE ALAAS PERMAFROST SOCIO-ECOLOGICAL SYSTEM AS CASE IN POINT
S. Crane

11:30-11:45 B03-O03 CLIMATE-INDUCED CHANGES IN STABILITY OF RUSSIAN URBAN INFRASTRUCTURE BUILT ON PERMAFROST
N. Shiklomanov, D. Streletskiy

April 29 (Wednesday), Room 202, 13:45-15:15

Chair: Hiroki Takakura

13:45-14:00 B03-O05 INITIAL CONCEPTUALIZATION AND APPLICATION OF ARCTIC TUNDRA LANDSCAPE EVOLUTION USING THE ALASKA THERMOKARST MODEL
W. R. Bolton, V. Romanovsky, A. D. McGuire, M. Lara, L. Hinzman

14:00-14:15 B03-O06 PERMAFROST RESEARCH PRIORITIES: A ROADMAP FOR THE FUTURE OF PERMAFROST RESEARCH

14:15-14:30 B03-O07 THE INTERNATIONAL PERMAFROST ASSOCIATION: CURRENT INITIATIVES FOR CRYOSPHERIC RESEARCH

14:30-14:45 B03-O08 METADATA STATISTICS OF THE NEW GLOBAL TERRESTRIAL NETWORK FOR PERMAFROST DATABASE

14:45-15:15 PANEL: FUTURE CHALLENGES FOR THE PERMAFROST RESEARCH COMMUNITY
H. Lantuit, M. Ishikawa, M. Johansson

April 29 (Wednesday), Room 202, 15:45-17:15

Chair: Mamoru Ishikawa

15:45-16:00 B03-O09 LANDSLIDE ACTIVITY PEAK OF THE LATE 1980’S IN CENTRAL YAMAL PENINSULA, RUSSIA, OBSERVED FROM TIME SERIES SATELLITE IMAGERY
T. Kumpula, T. Mikhaylova, M. Verdonen, B. Forbes

16:00-16:15 B03-O10 TEMPERATURE, SNOW, PERMAFROST: HETEROGENEITY OF CHANGE IN SHRUB GROWTH ON THE ARCTIC TUNDRA
M. Hallinger, K. Tape, M. Wilking

16:15-16:30 B03-O11 THERMOKARST LAKE SEDIMENT AS INDICATOR OF CLIMATE VARIATIONS: PRECISE ENVIRONMENTAL ARCHIVE OR WISHFUL THINKING?
M. Fritz, J. Lenz, K. Gajewski, P. Frenzel, I. Unkel, H. Lantuit

16:30-16:45 B03-O12 DETECTION OF MICROORGANISMS IN ANCIENT ICE WEDGES IN THE CENTRAL YAKUTIA (RUSSIA)
K. Elina, B. Anatoly, C. Maria, F. Svetlana, S. Natalia, G. Valerij

16:45-17:00 B03-O13 MODERN TALIK FORMATION ON IV TERRACE OF THE LENA RIVER, CENTRAL YAKUTIA
L. Gagarin

17:00-17:15 B03-O14 PERMAFROST CARBON DEGRADATION AT THE LAND-OCEAN-INTERFACE
G. Tanski, M. Fritz, H. Lantuit
B4: Arctic snow cover changes and their consequences

Main Convener: Terry V. Callaghan

April 30 (Thursday), Room 201, 10:45-12:15

Chair: Teruo Aoki

10:45-11:00 B04-O01 ARCTIC SNOW COVER CHANGES AND THEIR CONSEQUENCES: DEVELOPING A ROAD MAP FOR RESEARCH AND LONG-TERM MONITORING
T. V. Callaghan*, M. Johansson on behalf of the IASC Snow Meeting Participants, Copenhagen, 16-17 October 2014.

11:00-11:15 B04-O02 CLOUD COVER DICTATES SPRING SNOW COVER, BUT SURFACE TEMPERATURE CHANGE IS RELATED TO BOTH
S. N. Williamson, D. Hik*, J. Gamon

11:15-11:30 B04-O03 SNOW MICROSTRUCTURE AND MODELLING IN SUPPORT OF PERMAFROST SCIENCE
M. Proksch, I. Gouttevin, M. Langer, P. Ebner, C. Fierz, M. Schneebeli*

11:30-11:45 B04-O04 IMPACTS OF CHANGING WINTER SNOW CONDITIONS FOR ARCTIC ECOSYSTEMS
S. Bokhorst*

11:45-12:00 B04-O05 HIGH ARCTIC PLANT RESPONSES TO CHANGES IN SNOW COVER
E. J. Cooper*

12:00-12:15 QUESTIONS AND DISCUSSION

April 30 (Thursday), Room 201, 13:45-15:15

Chair: Margareta Johansson

13:45-14:00 B04-O06 EFFECTS OF CHANGING SNOW CONDITIONS ON REINDEER HUSBANDRY IN ARCTIC SWEDEN
G. Rosqvist*, N. Inga

14:00-14:15 B04-O07 THERMAL AND HYDROLOGICAL CONTROLS OVER ORGANIC MATTER REDISTRIBUTION IN GLACIAL SNOW COVER
K. Koziol*, E. Brown, N. Rutter, H. Moggridge, A. Hodson

14:15-14:30 B04-O08 CHEMISTRY OF SNOW COVER AND ACIDIC SNOWFALL DURING A SEASON WITH HIGH LEVEL AIR POLLUTION AT HANSBREEN GLACIER, SPITSBERGEN
K. Migala*, A. P. Nawrot, B. Luks, K. Migala, P. Glowacki

14:30-14:45 B04-O09 SNOW COVER IN RUSSIAN ARCTIC CITIES DUE TO CLIMATE CHANGE
M. N. Ivanov*

14:45-15:15 GENERAL DISCUSSION: BUILDING A ROAD MAP FOR FUTURE RESEARCH AND MONITORING
Moderated by M. Schneebeli

B5: Remote Sensing of the Arctic System

Main Convener: Jessica Cherry

SUB-THEME: Atmospheric Science

April 29 (Wednesday), Main Hall, 10:45-12:15

Chair: Jessica Cherry

10:45-11:00 B05-O01 EXTREME FIRE WEATHER CONDITIONS FOR WILDLAND FIRES IN ALASKA
H. Hayasaka*

11:00-11:15 B05-O02 USE OF SURFACE-BASED REMOTE SENSORS FOR UNDERSTANDING AEROSOL-CLOUD INTERACTIONS AT HIGH LATITUDES
G. de Boer*, M. Shupe, D. Turner, T. Garrett, C. Zhao

11:15-11:30 B05-O03 EUMETSAT OSISAF IRRADIANCE PRODUCTS
O. Godoev*

11:30-11:45 B05-O04 CLIMATOLOGY OF POLAR LOWS IN THE NORDIC AND BARENTS SEAS OVER 1995-2008 BASED ON SATELLITE DATA
L. Bobylev*, E. Zabolotskikh, J. Smirnova, P. Golubkin, B. Chapron

11:45-12:00 B05-O05 OPTICAL PROPERTIES OF MARITIME AEROSOLS OVER THE ARCTIC OCEAN MEASURED BY SHIP-BORNE SKY RADIOMETER
K. Aoki*

12:00-12:15
SUB-THEME: Biology and Phenology

April 29 (Wednesday), Main Hall, 13:45-15:15

Chair: Konosuke Sugiura

13:45-14:00 B05-O07 IN SITU AND SATELLITE OBSERVATIONS FOR ACCURATE DETECTION OF PLANT PHENOLOGY AND EXTENT OF SNOW COVER IN BOREAL FORESTS
S. Nagai*, K. Sugiura, S. Tei, H. Kobayashi, R. Suzuki

14:00-14:15 B05-O08 RECENT TEMPORAL DYNAMICS OF ARCTIC TUNDRA VEGETATION WITHIN THE CONTEXT OF SPATIAL BIOMASS-TEMPERATURE RELATIONSHIPS
H. Epstein*, U. Bhatt, M. Raynolds, D. Walker, L. Reichle

14:15-14:30 B05-O09 MODIS-BASED MAPPING OF THE GROWING SEASON AND PLANT PRODUCTION IN RELATION TO CLIMATE ON SVALBARD FOR THE 2000-2014 PERIOD
S. R. Karlsen*, K. A. Hogda, B. Johansen, R. van der Wal

14:30-14:45 B05-O10 OCEAN SURFACE TEMPERATURE TREND AND ITS IMPACTS ON PHYTOPLANKTON BIOMASS IN THE ARCTIC AND SUBARCTIC REGIONS
E. Siswanto*

14:45-15:00 B05-O11 THE EXPERIENCE OF UAV’S USE FOR ECOSYSTEM MONITORING ON THE SOLOVETSKY ISLAND (WHITE SEA)
A. Medvedev*

15:00-15:15 B05-O12 MAPPING UNDERSTORY NORMALIZED DIFFERENCE VEGETATION INDEX (NDVIIU) IN BOREAL FORESTS BY MODIS BRDF PRODUCTS
W. Yang*, H. Kobayashi, R. Suzuki, K. N. Nasahara

SUB-THEME: Snow and Ice

April 29 (Wednesday), Main Hall, 15:45-17:15

Chair: Masahiro Hori

15:45-16:00 B05-O13 ESTIMATION OF THE ARCTIC SEA THICKNESS USING THE SATELLITE MICROWAVE RADIOMETER AMSR2
K. Tateyama*

16:00-16:15 B05-O14 RAPID REDUCTION OF ARCTIC SEA ICE AND ITS IMPACTS ON BROMINE, OZONE, AND MERCURY PROCESSES
S. V. Nghiem*

16:15-16:30 B05-O15 OPTIMIZATION OF FRACTIONAL SNOW COVER ALGORITHMS FOR OPTICAL REMOTE SENSING
I. Appel*

16:30-16:45 B05-O16 DETECTION OF MELT PONDS ON ARCTIC SEA ICE FROM TERRASAR-X DUAL-POLARIMETRIC DATA
H. Han*, M. Kim, S. Lee, M. Shin, E. Jang, J. Im, J. Kim, D. Kim

16:45-17:00 B05-O17 QUASI-DAILY PAN-ARCTIC SEA-ICE LEAD DETECTION FROM MODIS THERMAL INFRARED IMAGERY
S. Willmes, G. Heinemann*

17:00-17:15 B05-O18 HIGH ACCURACY SEA ICE VELOCITY DATA SETS FROM AMSR SERIES AND THEIR APPLICATIONS TO UNDERSTANDING/FORECASTING OF SEA ICE VARIATIONS
K. Shimada*, E. Yoshizawa, T. Kamoshida

SUB-THEME: Hydrology and Permafrost

April 30 (Thursday), Main Hall, 10:45-12:15

Chair: Wolfgang Schoener

10:45-11:00 B05-O19

11:00-11:15 B05-O20 THE VARIATION OF HIGH LATITUDE WATER BODIES ALONG ALASKA COASTAL AREA OVER DIFFERENT PERMAFROST TYPES
Z. Wang*, M. O. Roman, B. Tan, T. C. James

11:15-11:30 B05-O21 ICE AND SNOW REGIME OF EURASIAN WATER BODIES FROM SATELLITE AND IN SITU OBSERVATIONS
A. V. Kouraev*, E. A. Zakharova, M. A. Naumenko, M. N. Shimaraev, A. G. Kostianoy, A. Y. Suknev, F. Remy

11:30-11:45 B05-O22 COMBINING OPTICAL AND RADAR REMOTE SENSING DATA FOR THE STUDY OF ORGANIC TRANSPORT IN “THERMOKARST LAKE – CATCHMENT” SYSTEMS OF RUSSIAN ARCTIC
Y. Dvornikov*, M. Leibman, B. Heim, A. Bartsch, H. W. Hubberten

11:45-12:00 B05-O23
SUB-THEME: Remote Sensing Synthesis Activities

April 30 (Thursday), Main Hall, 13:45-15:15

Chair: Jessica Cherry

13:45-14:00 B05-O25
14:00-14:15 B05-O26
14:15-14:30 B05-O27
14:30-14:45 B05-O28
14:45-15:00 B05-O29

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

Main Convener: Dieter Piepenburg

April 27 (Monday), Main Hall, 14:00-15:30

Chair: Sung-Ho Kang

14:00-14:15 B06-O01
14:15-14:30 B06-O02
14:30-14:45 B06-O03
14:45-15:00 B06-O04
15:00-15:15 B06-O05
15:15-15:30 B06-O06

April 27 (Monday), Main Hall, 16:00-17:30

Chair: Takeshi Kikuchi

16:00-16:15 B06-O07
16:15-16:30 B06-O08
16:30-16:45 B06-O09
16:45-17:00 B06-O10
17:00-17:15 B06-O11
17:15-17:30 B06-O12 SHORT-TERM CHANGES OF MESOZOOPLANKTON COMMUNITY IN THE CHUKCHI SEA DURING AUTUMN  
K. Matsuno*, N. Yokoi, A. Yamaguchi, S. Nishino, J. Inoue, T. Kikuchi

April 28 (Tuesday), Main Hall, 10:45-12:15  
Chair: Dieter Piepenburg

10:45-11:00 B06-O13 ZOOPLANKTON COMMUNITIES ON ARCTIC SHELVES: A PANARCTIC ANALYSIS OF FAUNAL REGIONS  
R. R. Hopcroft*, K. N. Kosobokova, E. Ershova, J. M. Questel, C. A. Smoot

11:00-11:15 B06-O14 DESTINATION NORTH – STRUCTURAL AND FUNCTIONAL DIVERSITY OF ZOOPLANKTON IN RELATION WITH ENVIRONMENTAL VARIABLES IN THE ENTRANCE TO THE ARCTIC OCEAN  
M. Gluchowska*, E. Trudnowska, K. Blachowiak-Samolyk, I. Goszczko, W. Walczowski, S. Kwasniewski

11:15-11:30 B06-O15 FROM ‘BENTHOS-DOMINATED’ TO ‘ZOOPLANKTON-DOMINATED’ MODE- IS IT PLAUSIBLE SCENARIO FOR ARCTIC FJORDS?  
K. Grzelak*, M. Gluchowska, J. M. Weslawski

11:30-11:45 B06-O16 BENTHIC COMMUNITY DIVERSITY AND STRUCTURE IN RELATION TO SEDIMENT PROCESSES IN THE CHUKCHI SEA  
L. W. Cooper*, J. M. Grebmeier

11:45-12:00 B06-O17 BENTHIC ECOSYSTEM FUNCTIONING AND COUPLING PROCESSES IN THE SHALLOW LAPTEV SEA : EVIDENCE FROM BENTHIC TURNOVER RATES, BENTHIC AND PELAGIC PATTERNS  

April 28 (Tuesday), Main Hall, 13:45-15:15  
Chair: Monika Kedra

13:45-14:00 B06-O19 SPATIO-TEMPORAL VARIATIONS OF BENTHIC ACTIVITIES IN TWO CONTRASTED HIGH ARCTIC FJORDS (KONGSFJORDEN AND RIJPFJORDEN, SVALBARD)  
N. Morata*, E. Michaud, S. Bourgeois, P. Kerhervé, C. Lalande

14:00-14:15 B06-O20 BENTHIC BIOMASS SIZE SPECTRA - A TOOL TO IDENTIFY BIOTIC RESPONSE TO ENVIRONMENTAL CHANGE IN THE ARCTIC?  
M. Wlodarska-Kowalczuk*, B. Gorska

14:15-14:30 B06-O21 UPPER THERMAL LIMITS OF CARDIAC FUNCTION FOR ARCTIC COD BOREOGADUS SALDA - A KEY FOOD WEB FISH SPECIES IN THE ARCTIC OCEAN  
H. Drost*, E. C. Carmack, A. P. Farrell

14:30-14:45 B06-O22 SPATIAL ASSOCIATIONS BETWEEN BALEEN WHALES AND THEIR PREY IN THE NORTHERN BERING AND CHUKCHI SEAS  

14:45-15:00 B06-O23 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  

15:00-15:15 B06-O24

April 28 (Tuesday), Main Hall, 15:45-17:15  
Chair: Lee Cooper

15:45-16:00 B06-O25 BUILDING PARTNERSHIPS ACROSS THE ARCTIC  
H. Loeng*

16:00-16:15 B06-O26 RUSSIAN-GERMAN COOPERATION IN THE SIBERIAN ARCTIC: THE LAPTEV SEA SYSTEM PROGRAM  
H. Kassens*, L. Timokhov, J. Hoelemann, A. Novikhin, A. Ipatov

16:15-16:30 B06-O27 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  
D. Piepenburg*, P. Archambault, L. L. Joergensen

16:30-16:45 B06-O28 MODELING FUTURE ARCTIC MARINE ECOSYSTEMS  
B. Planque*, U. Lindstroem, S. Subbey

April 28 (Tuesday), Main Hall, 10:45-12:15

Chair: Dieter Piepenburg

10:45-11:00 B06-O13 ZOOPLANKTON COMMUNITIES ON ARCTIC SHELVES: A PANARCTIC ANALYSIS OF FAUNAL REGIONS
R. R. Hopcroft*, K. N. Kosobokova, E. Ershova, J. M. Questel, C. A. Smoot

11:00-11:15 B06-O14 DESTINATION NORTH – STRUCTURAL AND FUNCTIONAL DIVERSITY OF ZOOPLANKTON IN RELATION WITH ENVIRONMENTAL VARIABLES IN THE ENTRANCE TO THE ARCTIC OCEAN
M. Gluchowska*, E. Trudnowska, K. Blachowiak-Samolyk, I. Goszczko, W. Walczowski, S. Kwasniewski

11:15-11:30 B06-O15 FROM ‘BENTHOS-DOMINATED’ TO ‘ZOOPLANKTON-DOMINATED’ MODE- IS IT PLAUSIBLE SCENARIO FOR ARCTIC FJORDS?
K. Grzelak*, M. Gluchowska, J. M. Weslawski

11:30-11:45 B06-O16 BENTHIC COMMUNITY DIVERSITY AND STRUCTURE IN RELATION TO SEDIMENT PROCESSES IN THE CHUKCHI SEA
L. W. Cooper*, J. M. Grebmeier

11:45-12:00 B06-O17 BENTHIC ECOSYSTEM FUNCTIONING AND COUPLING PROCESSES IN THE SHALLOW LAPTEV SEA : EVIDENCE FROM BENTHIC TURNOVER RATES, BENTHIC AND PELAGIC PATTERNS

April 28 (Tuesday), Main Hall, 13:45-15:15

Chair: Monika Kedra

13:45-14:00 B06-O19 SPATIO-TEMPORAL VARIATIONS OF BENTHIC ACTIVITIES IN TWO CONTRASTED HIGH ARCTIC FJORDS (KONGSFJORDEN AND RIJPFJORDEN, SVALBARD)
N. Morata*, E. Michaud, S. Bourgeois, P. Kerhervé, C. Lalande

14:00-14:15 B06-O20 BENTHIC BIOMASS SIZE SPECTRA - A TOOL TO IDENTIFY BIOTIC RESPONSE TO ENVIRONMENTAL CHANGE IN THE ARCTIC?
M. Wlodarska-Kowalczuk*, B. Gorska

14:15-14:30 B06-O21 UPPER THERMAL LIMITS OF CARDIAC FUNCTION FOR ARCTIC COD BOREOGADUS SAIDA - A KEY FOOD WEB FISH SPECIES IN THE ARCTIC OCEAN
H. Drost*, E. C. Carmack, A. P. Farrell

14:30-14:45 B06-O22 SPATIAL ASSOCIATIONS BETWEEN BALEEN WHALES AND THEIR PREY IN THE NORTHERN BERING AND CHUKCHI SEAS

14:45-15:00 B06-O23 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

15:00-15:15 B06-O24

April 28 (Tuesday), Main Hall, 15:45-17:15

Chair: Lee Cooper

15:45-16:00 B06-O25 BUILDING PARTNERSHIPS ACROSS THE ARCTIC
H. Loeng*

16:00-16:15 B06-O26 RUSSIAN-GERMAN COOPERATION IN THE SIBERIAN ARCTIC: THE LAPTEV SEA SYSTEM PROGRAM
H. Kassens*, L. Timokhov, J. Hoelemann, A. Novikhin, A. Ipatov

16:15-16:30 B06-O27 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
D. Piepenburg*, P. Archambault, L. L. Joergensen

16:30-16:45 B06-O28 MODELING FUTURE ARCTIC MARINE ECOSYSTEMS
B. Planque*, U. Lindstroem, S. Subbey
B7: Atmosphere-ocean-ice interactions and aspects related to a future, seasonally ice free Arctic Ocean

Main Convener: Bert Rudels

April 28 (Tuesday), Room 204, 10:45-12:15

Chair: Thomas Spengler, Thomas Haine

B07-O01 MULTI-DECADAL VARIABILITY IN THE ARCTIC
S. Outten*, I. Esau

B07-O02 THE COMPLEX RESPONSE OF ARCTIC AEROSOL TO SEA-ICE RETREAT

B07-O03 ON ASSESSING THE TEMPORAL VARIABILITY OF ARCTIC ENERGY BUDGETS
L. Haimberger*, M. Mayer, M. Blaschek

B07-O04 AUTONOMOUS INVESTIGATIONS OF MARGINAL ICE ZONE PROCESSES: CHANGING FEEDBACKS AND OBSERVATIONAL CHALLENGES

B07-O05 TOWARDS PROCESS RESOLVING MODELING, INTEGRATED SYNTHESIS AND PREDICTION OF ARCTIC CLIMATE CHANGE
W. Maslowski*, A. Roberts, R. Osinski

April 28 (Tuesday), Room 204, 13:45-15:15

Chair: Wataru Yanase, Andrey Proshutinsky

B07-O06 INVESTIGATING LEADS AND THE ATMOSPHERIC BOUNDARY LAYER NEAR SVALBARD
G. Heinemann*, C. Drüe, A. Preußer, I. Govorina

B07-O07 DIRECT OBSERVATIONS OF OCEAN VARIABILITY ACROSS THE ARCTIC MARGINAL ICE ZONE FROM AUTONOMOUS GLIDERS
L. Rainville*, C. M. Lee, M. J. Perry

B07-O08 ATMOSPHERE-ICE-OCEAN INTERACTIONS DURING SUMMER MELT AND EARLY AUTUMN FREEZE-UP: OBSERVATIONS FROM THE ACSE FIELD PROGRAM

B07-O09 RAPID SEA-ICE MELT DUE TO WARM AIR ADVECTION: OBSERVATIONS FROM THE ACSE FIELD PROGRAM
M. Tjernstrom*

B07-O10 CLOUD RADIATIVE FORING IN AN ICE-FREE ARCTIC
J. Ridley*

B07-O11 PROJECTED FUTURE DURATION OF THE SEA-ICE-FREE SEASON IN THE ALASKAN ARCTIC BY CMIP5 MODELS
M. Wang*, J. E. Overland

April 28 (Tuesday), Room 204, 15:45-17:15

Chair: Guenther Heinemann, Michael Tjernström

B07-O12 ENVIRONMENTAL CONDITIONS FOR POLAR LOWS IN THE NORDIC SEAS
T. Spengler*, A. Terpstra, C. Michel

B07-O13 INFLUENCE OF SURFACE FLUXES ON POLAR LOW DEVELOPMENT: IDEALISED SIMULATIONS
A. Terpstra*, L. Green, T. Spengler

B07-O14 CLIMATOLOGY OF POLAR LOWS OVER THE JAPAN SEA USING THE JRA-55 REANALYSIS
W. Yanase*, H. Niino

B07-O15 ATMOSPHERIC FORCING OF TRANSPORT OF POLAR WATER AND SEA ICE OVER THE NORTH ICELANDIC SHELF
S. Jonsson*, H. Valdimarsson

B07-O16 LONG-TERM DYNAMICS OF THE NORTH WATER POLYNYA BY MEANS OF PASSIVE MICROWAVE AND THERMAL INFRARED IMAGERY
A. Preusser*, G. Heinemann, S. Willmes, S. Paul

April 29 (Wednesday), Room 204, 10:45-12:15

Chair: Agnieszka Beszczyńska-Möller, Benjamin Rabe

B07-O17 ON THE CIRCULATION AND MIXING OF ATLANTIC WATER IN THE ARCTIC OCEAN
M. Spall

B07-O18 ARCTIC OCEAN STABILITY, A BALANCE BETWEEN COOLING AND FREEZING, FRESHWATER INPUT AND SEA ICE MELT
B. Rudels
ARCTIC OCEAN CIRCULATION CHANGES IN THE LAST DECADE, DERIVED FROM OBSERVATIONS AND MODEL INVESTIGATIONS
M. Karcher*, H. Sumata, B. Rabe, T. Kikuchi, F. Kauker, R. Gerdes
THE ATLANTIC WATER IMPACT ON THE SHELF-BASIN EXCHANGE AT THE BOUNDARY BETWEEN THE BARENTS SEA AND THE GREENLAND SEA.
I. Goszczko
TIDES STIR UP ATLANTIC WATER HEAT ALONG THE ARCTIC OCEAN CONTINENTAL SLOPE
Y.D. Lenn, TP. Rippeth, B. Lincoln, S. Bacon*, A. Sundfjord

April 29 (Wednesday), Room 204, 13:45-15:15
Chair: Michael Spall, Craig Lee

UPPER ARCTIC OCEAN DECADAL CHANGES: FRESHWATER, STRATIFICATION AND SURFACE VELOCITY
B. Rabe
SEASONALITY AND TRENDS OF FRESHWATER EXCHANGES BETWEEN THE ICE AND OCEAN IN THE CANADA BASIN
MECHANISMS OF POLAR SURFACE WATER AND THEIR PROSPECTS WITH LOSS OF SUMMER ICE COVER
T. Haine*, K. Stewart
VOLUME, HEAT AND FRESHWATER FLUXES OF PACIFIC WATER THROUGH THE BARROW CANYON IN THE ARCTIC OCEAN
M. Itoh*, T. Kikuchi, S. Nishino
EXISTENCE OF THE MENDELEEV GYRE AND ITS ROLE IN ARCTIC CIRCULATION
J. Zhao*, T. Kim, S.-H. Kang

April 29 (Wednesday), Room 204, 15:45-17:15
Chair: Bert Rudels, Wieslaw Maslowski

ROLES OF DIFFERENT FACTORS IN SHAPING ARCTIC OCEAN HYDROGRAPHY AND CIRCULATION
MIXING, OVERTURNING AND WATER MASS TRANSFORMATION IN THE ARCTIC OCEAN
A. Naveira Garabato, R. DeGiorgio, J. Zika, S. Bacon
FUTURE STATES OF THE ARCTIC OCEAN USING A COUPLED ICE-OCEAN MODEL WITH PROBABILITY DISTRIBUTION FUNCTION
M. Ikeda
TWO DECADES OF THE ATLANTIC WATER VARIABILITY IN FRAM STRAIT AND ITS LINKS TO THE REGIONAL SEA ICE AND ATMOSPHERIC CHANGES
A. B. Moeller*, W. Walczowski, U. Schauer
OBSERVED SEASONAL VARIATION OF THE ARCTIC OCEAN HEAT AND FRESH WATER BUDGETS
T. Tsubouchi*, S. Bacon, A. N. Garabato
FUTURE CHANGES IN THE ARCTIC OCEAN BIOGEOCHEMISTRY IN CMIP5 PROJECTIONS WITH MPI-ESM
T. Ilyina*, K. Six, J. Jungclaus

April 30 (Thursday), Room 202, 10:45-12:15
Chair: Gunhild Hoogensen Gjörv, Lassi Heininen, Aki Tonami

THE IMPACT OF CLIMATE CHANGE ON ABORIGINAL SUBSISTENCE WHALING IN NORTHWEST ALASKA: INUPIAT WHALERS, BOWHEAD WHALES AND OIL/GAS DEVELOPMENT
N. Kishigami
HUMAN SECURITY AS ARCTIC GEOGRAPHIES OF PROVISIONING
A. Mason
THE PROJECT "RED CHUM" AS A FORM OF INTERACTION BETWEEN THE INDIGENOUS PEOPLES OF THE ARCTIC AND THE OIL COMPANIES
N. S. Bobyreva*, G. N. Degteva
EXTRACTIVE RESOURCES AND SUSTAINABLE DEVELOPMENT IN THE ARCTIC: RESEARCH PRIORITIES FOR THE NEXT DECADE
C. Southcott
OPEN DISCUSSION

April 30 (Thursday), Room 202, 13:45-15:15

Chair: Gunhild Hoogensen Gjörv, Lassi Heininen, Aki Tonami

B08-O05  NORTHERN TRADE ROUTE
         S. Bensassi*, I. M. Zarzoso, J. Stroeve

B08-O06  THE ARCTIC NARRATIVE IN THE ICELANDIC MEDIA: DO ECONOMIC INTERESTS TRUMP ENVIRONMENTAL CONCERNS?
         K. Schram*, J. G. Olafsson

B08-O07  MECHANISMS FOR COPING WITH ADVERSE STATES AND THE PERSONALITY CHANGES OF WORKERS IN A CHANGING ARCTIC CLIMATE
         Y. Korneeva*, N. Simonova

B08-O08  UNDERSTANDING RAPID ENVIRONMENTAL, ECONOMIC, AND SOCIETAL CHANGE: ADAPTATION ACTIONS FOR A CHANGING ARCTIC – BERING CHUKCHI BEAUFORT REGION

OPEN DISCUSSION

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

Main Convener: Shinichiro Tabata

April 28 (Tuesday), Conference Room, 10:45-12:15

Chair: Shinichiro Tabata, Elena Conde, Rasmus Bertelsen

10:45-11:00  B09-O01  CHINESE ARCTIC SCIENCE DIPLOMACY: CONCEPTUALIZING THE CHINESE DREAM, A HISTORICAL APPROACH FROM HARD POWER TO SOFT POWER
             R. G. Bertelsen*, X. Li, M. H. Gregersen

11:00-11:15  B09-O02  WHAT JAPAN CAN DO AS AN ASIAN PERMANENT OBSERVER STATE IN THE ARCTIC COUNCIL’S FRAMEWORK
             T. Ikeshima*

11:15-11:30  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
             U. Jakobsen*

11:30-11:45  B09-O04  CHINA’S ROLE IN ARCTIC GOVERNANCE: MAPPING CHINESE FOREIGN POLICY CHALLENGES
             C. Pelaudex*

11:45-12:00  B09-O05  THE POLITICS OF THE RIGHT TO SELF-DETERMINATION: GREENLAND IN TRANSITION
             M. Takahashi*

12:00-12:15  B09-O06  AUTONOMISM AND COMPREHENSIVE SUSTAINABILITY IN GREENLAND AND NUNAVUT
             R. C. Thomsen*

April 28 (Tuesday), Conference Room, 13:45-15:15

Chair: Shinichiro Tabata, Elena Conde, Rasmus Bertelsen

13:45-14:00  B09-O07  A PRELIMINARY ANALYSIS OF THE SOCIO-ECONOMIC DEVELOPMENT OF ARKHANGELSK AND MURMANSK REGIONS AFTER THE COLLAPSE OF THE USSR
             S. Tabata*, T. Tabata

14:00-14:15  B09-O08  POPULATION DYNAMICS AND TRANSFORMATION OF HUMAN SETTLEMENTS IN NORTHEAST ARCTIC REGIONS OF RUSSIA
             T. Litvinenko*

14:15-14:30  B09-O09  UNDERSTANDING THE VALUES OF SUSTAINABLE DEVELOPMENT IN THE ARCTIC: A CASE STUDY OF SUSTAINABLE DEVELOPMENT IN ICELAND
             K. H. Janelle*, G. A. M. S

14:30-14:45  B09-O10  ENTREPRENEURIAL SUPPORT AND LOCAL COMMUNITY AROUND THE RESOURCE DEVELOPMENT IN ARCTIC RUSSIA
             M. Goto*

14:45-15:00  B09-O11  THE KETS ETHNOS AND ITS “FEEDING LANDSCAPE”: ECOLOGICAL-GEOGRAPHICAL AND SOCIO-ECOLOGICAL PROBLEMS UNDER GLOBALIZATION AND CHANGING CLIMATE
             A. A. Medvedkov*
April 28 (Tuesday), Conference Room, 15:45-17:15
Chair: Shinichiro Tabata, Elena Conde, Rasmus Bertelsen

15:45-16:00  B09-O13

16:00-16:15  B09-O14  NEW CHALLENGES FOR ARCTIC REGIONAL ORDER
F. Ohnishi*

16:15-16:30  B09-O15  ARCTIC GOVERNANCE AND INDIGENOUS PEOPLES: A HUMAN SECURITY PERSPECTIVE
K. Hossain*

16:30-16:45  B09-O16  THE UK’S, GERMAN AND FRENCH APPROACHES TO THE ARCTIC
M. Smieszek*, P. Kankaanpaa

16:45-17:00  B09-O17  ARCTIC COUNCIL’S IMPACT ON MEMBER STATES POLICIES: DOES IT REALLY MATTER?
ARCTIC COUNCIL AND NORWEGIAN SHIPPING POLICY
P. Graczyk*

17:00-17:15  B09-O18  THINKING OUTSIDE THE BOX: A CALL FOR THE POLAR TREATY
A. Ason

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

Subtitle: Dynamics of the Greenland ice sheet
April 28 (Tuesday), Room 203, 15:45-17:15
Chair: Shin Sugiyama

15:45-16:00  B10-O01  RELEVANCE OF ICE STREAM DYNAMICS AND INDUCED ANISOTROPY FOR
SIMULATING THE DISCHARGE OF THE GREENLAND ICE SHEET
R. Greve*

16:00-16:15  B10-O02  SENSITIVITY OF THE SIMULATED PROJECTION OF GREENLAND ICE SHEET TO
VARIATION OF STRUCTURAL UNCERTAINTIES IN ICE-SHEET MODELS
F. Saito*, A. AbeOuchi, K. Takahashi

16:15-16:30  B10-O03  DESTABILIZATION OF THE GREENLAND ICE SHEET DURING THE LAST INTERGLACIAL
K. H. Nisancioglu*, A. Born

16:30-16:45  B10-O04  ICE FRONT AND FLOW SPEED VARIATIONS OF MARINE TERMINATING OUTLET
GLACIERS ALONG THE COAST OF PRUDHOE LAND, NORTHEASTERN GREENLAND
D. Sakakibara*, S. Sugiyama

16:45-17:00  B10-O05  MODELING THE FLOW DYNAMICS OF THE BOWDOIN GLACIER, QAANAAQ REGION,
NORTHWESTERN GREENLAND
H. Seddik*, R. Greve, S. Sugiyama, D. Sakakibara

17:00-17:15  B10-O06  GLACIAL EARTHQUAKE ACTIVITIES AND ICE SHEET DYNAMICS IN GREENLAND
M. Kanao*, S. Tsuboi, G. Toyokuni, T. Himeno, Y. Tono, K. Anderson

Subtitle: Interaction of glaciers and the ocean
April 29 (Wednesday), Room 203, 10:45-12:15
Chair: Ursula Schauer

10:45-11:00  B10-O07  OCEAN, SEA ICE AND GLACIERS INTERACTIONS IN SVALBARD AREA
W. Walczowski*, M. Błaszczyk, T. Wawrzyniak

11:00-11:15  B10-O08  THE OCEANIC INFLUENCE ON GLACIERS CALVING IN HORNSSUND FJORD, SPITSBERGEN
A. Prominska*, D. Ignatiuk

11:15-11:30  B10-O09  MELTWATER AND RAIN WATER DISCHARGE FROM GLACIER BASINS OF SPITSBERGEN
AND ITS INFLUENCE ON ICE CLIFF DYNAMICS
E. Majchrowska*, J. A. Jania, M. Cieply

11:30-11:45  B10-O10  PATHWAYS OF WARM WATER TO THE NORTHEAST GREENLAND OUTLET GLACIERS

11:45-12:00  B10-O11  GRIFF 2016 - AN INTERDISCIPLINARY CAMPAIGN TO STUDY THE 79°N GLACIER AND ITS
INTERACTION WITH THE OCEAN
T. Kanzow*, U. Schauer, A. Humbert, K. Nicholls, F. Straneo, A. Muenchow, C. S. Andresen,

12:00-12:15  B10-O12  STRATEGY FOR FUTURE RESEARCH TO INVESTIGATE ICE-OCEAN INTERACTION IN
GREENLAND
A. Humbert*
Subtitle: Arctic glaciers
April 29 (Wednesday), Room 203, 13:45-15:15
Chair: Nozomu Takeuchi

13:45-14:00 B10-O13 MASS BALANCE AND DYNAMICS OF AUSTFONNA ICE CAP, SVALBARD
J. O. Hagen*, T. Dunse, T. Eiken, J. Kohler, G. Moholdt, T. V. Schuler, T. Ostby

14:00-14:15 B10-O14 MASS BALANCE ESTIMATION FOR THE HURLBUT ICE CAP IN NORTHERN GREENLAND,
K. Konya*, J. Saito, S. Sugiyama

14:15-14:30 B10-O15 MODELLING MASS BALANCE AND DYNAMICS OF HARDANGERJØKULEN ICE CAP,
SOUTHERN NORWAY
H. Akesson, K. H. Nisancioglu*, R. H. Giesen, M. Morlighem

14:30-14:45 B10-O16 SHRINKING GLACIERS IN SUNTAR KHAYATA, EAST SIBERIA
T. Kadota*, T. Shirakawa, R. Kusaka, S. Takahashi, A. Galanin, A. Fedorov, H. Enomoto,
T. Ohata, H. Yabuki

14:45-15:00 B10-O17 MODELING FUTURE MASS BALANCE OF THE ARCTIC GLACIERS: CASE STUDY IN THE
ALTAI MOUNTAINS
Y. Zhang*, H. Enomoto, T. Ohata

15:00-15:15 B10-O18 APPEARANCE OF NEW ARCTIC ISLANDS DUE TO RECESSION OF GLACIERS
W. Ziaja*, K. Ostafin

Subtitle: Snow/ice impurities and surface energy balance
April 29 (Wednesday), Room 203, 15:45-17:15
Chair: Teruo Aoki

15:45-16:00 B10-O19 LIGHT ABSORBING SNOW IMPURITIES MEASURED AT SIGMA-A, GREENLAND ICE
SHEET AND THEIR EFFECT ON ALBEDO
T. Aoki*, S. Matoba, S. Yamaguchi, T. Tanikawa, M. Niwano, K. Kuchiki, M. Hori,
H. Motoyama, K. G. Azuma, Y. Ogawa, Y. Kondo, N. Moteki

16:00-16:15 B10-O20 DARKENING GREENLAND AND CRYOCONITE HOLE DYNAMICS
N. Takeuchi*, R. Sakaki, T. Aoki, M. Niwano, Y. Onuma, S. Tanaka, R. Shimada, N. Nagatsuka,
J. Uetake

16:15-16:30 B10-O21 FORMING PROCESS OF CRYOCONITE GRANULES ON QAANAAQ GLACIER,
NORTHWESTERN GREENLAND

16:30-16:45 B10-O22 SNOW ALGAL COMMUNITIES AND ITS EFFECT ON MELTING OF GLACIERS IN SUNTAR
KHAYATA MOUNTAIN RANGE IN EASTERN SIBERIA
S. Tanaka*, N. Takeuchi, Y. Fujisawa, M. Miyairi, T. Kadota, T. Shirakawa, R. Kusaka,
S. Takahashi, H. Enomoto, T. Ohata, H. Yabuki, K. Konya, A. Fedorov, P. Konstantinov

16:45-17:00 B10-O23 GEOGRAPHICAL VARIATIONS IN SR-ND ISOTOPIC RATIOS OF MINERAL DUST IN
ARCTIC SNOW

17:00-17:15 B10-O24 SURFACE ENERGY BALANCE AT THE SITE SIGMA-A, NORTHWEST GREENLAND DURING
THE RECORD SURFACE MELT EVENT IN THE SUMMER OF 2012
M. Niwano*, T. Aoki, S. Matoba, S. Yamaguchi, T. Tanikawa, K. Kuchiki, H. Motoyama

B11: Navigation and Fisheries in the Arctic: Prospects, Problems and International Policies
Main Convener: Atsumu Ohmura
April 29 (Wednesday), Room 205, 10:45-12:15
Chair: Atsumu Ohmura

10:45-11:15 B11-O01 CHANGES IN ARCTIC SEA ICE CHARACTERISTICS AND THEIR IMPACT ON NAVIGATION
P. Wadhams*

11:15-11:45 B11-O02 RESEARCH ON NAVIGATION SUPPORT SYSTEM FOR THE ARCTIC SEA ROUTES
H. Yamaguchi*

11:45-12:15 B11-O03 STRATEGIC OVERVIEW OF IMPLEMENTING THE ARCTIC MARINE SHIPPING
ASSESSMENT RECOMMENDATIONS AND THE IMO MANDATORY POLAR CODE
L. W. Brigham*

April 29 (Wednesday), Room 205, 13:45-15:15
Chair: Henry Huntington

13:45-14:00 B11-O04 THE NAUTICAL INSTITUTE’S WAY AHEAD IS ICE NAVIGATION TRAINING ASSURANCE
D. Snider*

14:00-14:15 B11-O05 MARITIME USER REQUIREMENTS AT HIGH LATITUDES - FIRST RESULTS FROM THE
MARENOR PROJECT
R. Behlke*
14:15-14:30  B11-O06  FISHERIES AND THE NEWLY ACCESSIBLE ARCTIC OCEAN  
H. P. Huntington*  

14:30-15:00  B11-O07  THE NEW ARCTIC OCEAN: IMPLICATIONS FOR RESEARCH AND POLICY  
P. Wassmann*, E. Carmack, H. P. Huntington  

15:00-15:15  B11-O08  FISHING INDUSTRY IN NUNAVUT: POLICY AND MANAGEMENT  
M. Pan*  

April 29 (Wednesday), Room 205, 15:45-17:15  
Chair: Kevin Hedges  

15:45-16:00  B11-O09  SVALBARD ZONE LANDINGS SHOWS FISHERIES MOVING NORTH WHEN WATERS HEAT  
O. A. Misund*, K. Heggland, H. Gjøesæter, O. J. Loenne  

16:00-16:15  B11-O10  MARINE INVASIVE SPECIES CHALLENGES IN THE ARCTIC  
B. A. Kaiser*, L. Fernandez, J. Sundet  

16:15-16:35  B11-O11  THE NEW ARCTIC: THE ROLE OF SCIENCE IN CONSERVATION AND MANAGEMENT OF FISHERIES IN AN EMERGING OCEAN  
D. Benton*  

16:35-16:55  B11-O12  NETWORKS AND GOVERNANCE OF ARCTIC SHIPPING AND FISHING: A ROBUST MANAGEMENT APPROACH  
R. Pincus*  

A. Ohmura*  

C1: Sharing Arctic data, observations and knowledge: understanding the global system through international exchange  
Main Convener: Peter L. Pulsifer  

April 27 (Monday), Room 204, 14:00-15:30  

C01-O01  THE EVOLUTION OF NSF ARCTIC DATA MANAGEMENT: CHALLENGES AND LESSONS LEARNED AFTER TWO DECADES OF SUPPORT  
J. A. Moore*, S. F. Williams  

C01-O02  DEVELOPMENT OF ARCTIC DATA ARCHIVE SYSTEM (ADS)  
H. Yabuki*, T. Sugimura, T. Terui  

C01-O03  DATA MANAGEMENT WITHIN THE SVALBARD INTEGRATED ARCTIC OBSERVING SYSTEM  
O. Godoy*, S. Tronstad, V. Vitale, I. Schewe, B. L. Bye, T. Hamre, J. B. Oerbaek  

C01-O04  NORDIC RESEARCH PROGRAMME ON INTERACTION BETWEEN CLIMATE CHANGE AND CRYOSPHERE – AN EXAMPLE OF SUCCESSFUL SHARING OF RESOURCES  

C01-O05  ARCTICCONNECT: A PLATFORM FOR KNOWLEDGE SHARING AND COLLABORATION  
S. Vossepoel*, M. S. Murray, S. Liang, B. Chu, P. Panikkar, J. Badger  

C01-O06  ESTABLISHING AN ARCTIC DATA NETWORK THROUGH INTERNATIONAL COLLABORATION  
P. L. Pulsifer*, V. Rachold, J. R. Larsen, O. Godoy, J. Friddell, H. Lappalainen, Y. Qiu  

C01-O07  THE ARCTIC OBSERVING SUMMIT: AN ACTIVITY OF THE INTERNATIONAL STUDY OF ARCTIC CHANGE AND A SAON TASK  
M. S. Murray*, P. Schlosser, G. Ibarguchi, L-M. van der Watt  

C01-O08  THE GLOBAL TERRESTRIAL NETWORK FOR PERMAFROST (GTN-P) DATA MANAGEMENT SYSTEM WITHIN THE FRAMEWORK OF THE ARCTIC DATA INTERFACE (ADI)  

April 27 (Monday), Room 204, 16:00-17:30  

C01-O09  DEVELOPMENT OF THE VESSEL NAVIGATION SUPPORT SYSTEM FOR SEA ICE AREA  

C01-O10  NASA’S ARCTIC BOREAL VULNERABILITY EXPERIMENT: ACCELERATING SCIENCE WITH BIG DATA CLOUD TECHNOLOGIES AND LIFECYCLE DATA MANAGEMENT  
P. Griffith*, D. Dufly, E. Hoy, S. Ambrose, M. McInerny  

C01-O11  DEVELOPMENT OF ONLINE VISUALIZATION TOOL "VISION"  
T. Sugimura*, T. Terui, H. Yabuki  

C01-O12  POLAR AND ALPINE MICROBIAL COLLECTION (PAMC): A CULTURE COLLECTION DEDICATED TO POLAR AND ALPINE MICROORGANISMS  
Y. M. Lee*, G.H. Kim, S. G. Hong, H. K. Lee  

C01-O13  BARENTS SEA BENTHIC FAUNA IN A CHANGING SEA  
L. L. Jorgensen*, P. Plubin
C01-O14  THE IMPORTANCE OF TRADITIONAL KNOWLEDGE RECOGNITION AND INVOLVEMENT INTO THE SCIENTIFIC RESEARCH.
  J. Staffansson

C01-O15  LEGAL BACKGROUND IN THE INTERNATIONAL LAW CONCERNING INDIGENOUS INTELLECTUAL PROPERTY IN THE ARCTIC
  L. I. Nikanorova

C01-O16  THE TRANSFER OF ARCTIC-BASED RESEARCH AND SCIENCE COMMUNICATION METHODS TO TROPICAL CONTEXTS
  R. Fielding

C2:  Arctic in Rapid Transition - future research directions from the perspective of early career scientists
  Main Convener: Makoto Sampei

April 30 (Thursday), Room 203, 10:45-12:15

10:45-10:50  OPENING REMARKS
  M. Sampei

10:50-11:05  C02-O01  UNDERSTANDING MECHANISMS CONTROLLING THE ARCTIC ENVIRONMENT IN THE LAPTEV SEA – IMPLICATIONS FROM ND ISOTOPES AND RARE EARTH ELEMENTS
  G. Laukert*, M. Frank, E. Hathorne, C. Wegner, H. Kassens

11:05-11:20  C02-O02  VARIABLE PATHWAY OF THE PACIFIC WATER IN THE PACIFIC SECTOR OF THE ARCTIC OCEAN
  K. Mizobata*

11:20-11:35  C02-O03  CONTRASTING OPTICAL PROPERTIES OF SURFACE WATERS ACROSS THE FRAM STRAIT AND ITS POTENTIAL BIOLOGICAL IMPLICATIONS
  A. K. Pavlov*, M. A. Granskog, C. A. Stedmon, B. V. Ivanov, S. R. Hudson, S. Falk-Petersen

11:35-11:50  C02-O04  EXAMINING THE POTENTIAL CONSEQUENCES OF CLIMATE-INDUCED PREY SHIFTS ON BELUGA WHALES IN THE BEAUFORT SEA
  E. S. Choy*, L. L. Loseto, J. D. Roth

11:50-12:15  DISCUSSION

April 30 (Thursday), Room 203, 13:45-15:15

13:45-14:00  C02-O05  WHERE ARE THEY NOW? A CASE STUDY OF INTERNATIONAL TRAVEL SUPPORT FOR EARLY CAREER RESEARCHERS
  S. Majaneva*, J. Baeseman, G. Fugmann, M. Lisowska, L. Christie

14:00-14:20  C02-O06  THE FUTURE OF PERMAFROST RESEARCH; CONTRIBUTIONS OF EARLY CAREER RESEARCHERS FROM THE EUROPEAN CONFERENCE ON PERMAFROST TO ICARPIII

14:20-14:40  C02-O07  ARCTIC IN RAPID TRANSITION: INTEGRATING SPATIAL AND TEMPORAL SCALES IN THE CHANGING ARCTIC SYSTEM: TOWARDS FUTURE RESEARCH PRIORITIES

14:40-15:15  DISCUSSION ON ART NETWORK SUGGESTION FOR ICARP III

C3:  Emerging questions in Arctic Geoscience
  Main Convener: Victoria Pease

April 28 (Tuesday), Room 205, 10:45-12:15

Chair: Victoria Pease, Bernard Coakley

C03-O01  A SOCIALLY RELEVANT ARCTIC TECTONIC PUZZLE
  V. Pease*, A. Andresen, J. Toro

C03-O02  THE EUREKAN DEFORMATION IN THE ARCTIC – AN OUTLINE
  K. Piepjohn*

C03-O03  THE GREAT CHALLENGES IN ARCTIC OCEAN PALEOCEANOGRAPHY AND SCIENTIFIC DRILLING
  R. Stein*

C03-O04  NEW DATA SUPPORT NEW HYPOTHESES ABOUT ARCTIC OCEAN TECTONICS; PLANNING EXPEDITIONS FOR THE NEXT DECADE.
  B. Coakley

C03-O05  SEISMICITY, Structure and Tectonics in the Arctic Region
  M. Kanao*, V. Suvorov, S. Toda, G. Toyokuni, S. Tsuboi
C4: 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

April 28 (Tuesday), Room 205, 13:45-15:15

Chair: Peter Sköld

C04-O01 SCIENCE PLAN 11 AND INCLUDING ARCTIC COMMUNITIES IN RESEARCH: WHAT HAS BEEN DONE SINCE ICARP II?
C. Southcott

C04-O02 THE SALIENCE OF THE ADAPTATION ISSUE IN AN ARCTIC COASTAL COMMUNITY
H. Dannevig*, G. K. Hovelsrud

C04-O03 REINDEER HERDERS WITHOUT REINDEERS: THE THEORY AND PRACTICE OR ECOSYSTEM-BASED APPROACH IN THE RUSSIAN ARCTIC
A. Pristupa*, M. Tysiachniouk

C04-O04 LEADERS AT THE POLES: WHAT POLAR RESEARCHERS CAN LEARN FROM MANAGERS AND WHAT CAN THEY TEACH THEM?
B. Lisowski*, M. Lisowska

C04-O05 GAMES IN ENVIRONMENTAL EDUCATION, COMMUNICATION AND SCIENCE
J. Schmidt*, D. Nissen, M. Magens, R. Voss

C04-O06 TRADITIONAL KNOWLEDGE AND (WESTERN) SCIENCE
C. C. Olsen*

SUMMERY COMMENT ON SESSION

C5: Advances in Transdisciplinary Arctic Research: Progress on Building Collaborative Agendas for Research Supporting Solutions for Sustainability

Main Convener: Carolina Cavazos Guerra

April 30 (Thursday), Room 204, 10:45-12:15

C05-O01 REINDEER HERDING AND NORTHERN ECOSYSTEMS UNDER WARMING CLIMATE

C05-O02 SUSTAINABILITY OF HUMAN-WILDLIFE SYSTEMS IN NORTHERN URBANIZING REGIONS
K. A. Jochum*

C05-O03 FINDINGS FROM THE CANADIAN POLAR COMMISSION’S REPORT ON THE STATE OF NORTHERN KNOWLEDGE IN CANADA
S. File*

C05-O04 ENGAGEMENT, CREATIVE DESIGN AND COLLABORATIVE STRATEGIES: LESSONS FOR A RESILIENT ARCTIC
G. Ibarguchi*, M. S. Murray

C05-O05 MINE CLOSURE, LOCAL WELL-BEING AND CARIBOU LIVELIHOODS: WHAT PATHWAYS TO SOCIO-ECOLOGICAL RESILIENCE IN MINE-IMPACTED INUIT COMMUNITIES?
S. Blangy*, A. Rixen

DISCUSSION

April 30 (Thursday), Room 204, 13:45-15:15

DEBATE PANEL ON C5: ADVANCES IN TRANSDISCIPLINARY ARCTIC RESEARCH: PROGRESS ON BUILDING COLLABORATIVE AGENDAS FOR RESEARCH SUPPORTING SOLUTIONS FOR SUSTAINABILITY
Participants: Volker Rachold, Tatiana Vlasova, Gunn-Britt Retter
C6: Understanding Sustainability in the Arctic: From Patchwork to Framework

Main Convener: Andrey N. Petrov

April 27 (Monday), Conference Room, 14:00-15:30

Chair: Peter Schweitzer

14:00-14:10 INTRODUCTION: IASC SHWG, ICARP III PROCESS AND WHITE PAPER IN ARCTRIC SUSTAINABILITY RESEARCH
P. Schweitzer

14:10-14:30 C06-O01 ARCTIC SUSTAINABILITY SCIENCE: AGENDA 2020
A. N. Petrov*, F. Gail, S. Peter

14:30-14:50 DISCUSSION

14:50-15:10 C06-O02 LAW AND SUSTAINABILITY IN THE ARCTIC
N. Loukacheva*

15:10-15:30 C06-O03 INTERNATIONAL GEOGRAPHICAL UNION COLD REGION ENVIRONMENTS COMMISSION: ROLE IN THE ARCTIC SUSTAINABILITY SCIENCE
T. Vlasova*

April 27 (Monday), Conference Room, 16:00-17:30

Chair: Gail Fondahl

16:00-16:20 C06-O04 RAPID ARCTIC TRANSITIONS DUE TO INFRASTRUCTURE AND CLIMATE (RATIC): A COMPARISON OF CHANGES IN THE PRUDHOE BAY OILFIELD, ALASKA AND THE BOVANENKOVO GASFIELD, RUSSIA

16:20-16:40 C06-O05 ADOPTING A FRAMEWORK TO MAKE SENSE OF PATCHWORK: THE EXAMPLE OF URBAN ECOLOGY
J. Graybill*

16:40-17:00 C06-O06 SINGLE-INDUSTRY CITIES AND SETTLEMENTS OF MURMANSK REGION: CHALLENGES AND WAYS FORWARD
Y. Zaika*, E. Golubeva

17:00-17:20 C06-O07 LEAVE OR STAY: SETTLEMENT OF ANCESTORS UNDER NATURAL DISASTERS IN YAKUTIA
V. V. Filippova*

17:20-17:30 QUESTIONS AND ANSWERS

C7: The Arctic system; changes and effects with emphasis on freshwater ecosystems

Main Convener: Alexander M. Milner

April 28 (Tuesday), Room 201, 10:45-12:15

Chair: Jon Olafsson

C07-O01 ARCTIC COASTAL TRANSIT AND CYCLIC AQUATIC SYSTEMS’ HYDROLOGICAL AND GEOCHEMICAL PARTICULARITIES

C07-O02 FRESHWATER PATHWAYS IN THE SUB-ARCTIC SEAS FROM THE GREENLAND FRESHWATER EXPERIMENT
D. S. Dukhovskoy*, M. Bourassa, A. Proshutinsky

C07-O03 FRESH WATER AND ITS ROLE IN THE ARCTIC MARINE SYSTEM: SOURCES, DELIVERY, DISPOSITION, STORAGE, EXPORT, AND PHYSICAL AND BIOGEOCHEMICAL CONSEQUENCES IN THE ARCTIC AND GLOBAL OCEANS

C07-O04 THE ARCTIC ATMOSPHERIC WATER CYCLE: PAST AND FUTURE CHANGES AND THEIR IMPACTS

C07-O05 ARCTIC TERRESTRIAL HYDROLOGY: A SYNTHESIS OF PROCESSES, CHANGE DRIVERS AND RESEARCH CHALLENGES

C07-O06 EPOCH DIFFERENCES IN WATER CYCLES IN EASTERN AND WESTERN SIBERIA DURING THE PAST TWO CENTURIES
K. Oshima*, K. Ogata, H. Park, Y. Tachibana
April 28 (Tuesday), Room 201, 13:45-15:15  
Chair: Alexander Milner

C07-O07  FIRE-CAUSED NONSTATIONARITY OF HYDROLOGICAL SYSTEMS IN COLD ENVIRONMENTS: THE EXAMPLES FROM OBSERVATIONS AND MODELLING ACROSS RUSSIAN SIBERIA AND FAR EAST
  O. Semenova, L. Lebedeva*

C07-O08  STATUS & PROSPECTS OF ARCTIC FRESHWATER EXPORT

C07-O09  A STUDY OF THE WHOLE YEAR CYCLES OF CYANOBACTERIA/MICROALGAE IN POLAR HYDROTERRESTRIAL ENVIRONMENTS
  D. Tashyreva, M. Pichrtová, J. Elster*

C07-O10  TRACE ELEMENT BIOGEOCHEMISTRY IN THAW LAKES: INFLUENCE OF ORGANIC MATTER

C07-O11  CHANGES IN POND COMMUNITY ASSEMBLAGES AT A MORAINE OF RAPID RETREATING GLACIER
  J. S. Olafsson*, R. Þ. Magnusdottir

C07-O12  PERMAFROST LAKES IN THE ARCTIC FRESHWATER ARCHIPELAGO
  W. F. Vincent*, I. Laurion

April 28 (Tuesday), Room 205, 15:45-17:15
Chair: Donald L. Forbes

C8: Circumpolar Arctic Coastal Communities Observatory Network: knowledge Hubs for Northern Coastal Sustainability

Main Convener: Donald L. Forbes

April 28 (Tuesday), Room 205, 15:45-17:15  
Chair: Donald L. Forbes

15:45-15:53  INTRODUCTION

15:53-15:59  C08-O01  KNOWLEDGE HUBS FOR NORTHERN COASTAL SUSTAINABILITY
  D. L. Forbes*, J. N. Larsen, P. P. Overduin, T. Bell, R. O. Rasmussen

15:59-16:05  C08-O02  A DECADE OF ARCTIC COASTAL RESEARCH
  P. Overduin*, N. Couture, H. Lantuit

16:05-16:11  C08-O03  ASI, AHDR, AND IMPLICATIONS FOR THE CIRCUMPOLAR ARCTIC COASTAL COMMUNITIES OBSERVATORY NETWORK (CACCON)
  P. P. Schweitzer*, R. O. Rasmussen, T. Vlasova

16:11-16:17  C08-O04  EARLY CAREER PERSPECTIVES ON ARCTIC COASTAL RESEARCH PRIORITIES
  R. Riedlsperger*

16:17-16:23  C08-O05  REGIONAL PRIORITIES AND PERSPECTIVES: EXAMPLE FROM CHUKOTKA
  G. Kraev*, E. Zdor

16:23-16:29  C08-O06  IDENTIFYING REGIONAL AND CIRCUMPOLAR ARCTIC COASTAL RESEARCH PRIORITIES
  T. Bell*, R. O. Rasmussen

16:29-17:15  MODERATED AND RECORDED OPEN DISCUSSION
C10: Consulting Arctic communities on research planning

Main Convener: Chris Southcott

April 27 (Monday), Room 205, 14:00-15:30

Chair: Kirsi Latola

14:00-14:20  C10-O01  THE GRASSROOTS VOICES ARE GETTING LOUDER: HOW TO ENGAGE INDIGENOUS PEOPLE IN THE RESEARCH PROCESS
  J. Bull

  C. Southcott

14:40-15:00  C10-O03  TRANSFORMATIVE PARTNERSHIPS, KNOWLEDGE AND CHANGE: INUIT PERSPECTIVES ON ARCTIC RESEARCH – THE INUIT EXPERIENCE OF THE ARCTICNET PROGRAM
  S. P. Edmunds-Potvin

15:00-15:20  C10-O04  INTERNATIONAL PROJECTS: RESULTS AND PERSPECTIVES OF THE INDIGENOUS PEOPLES' PARTNERSHIP
  L. Abriutina

15:20-15:30  PANEL DISCUSSION ON CONSULTING ARCTIC COMMUNITIES

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

Main Convener: Peter Sköld

April 27 (Monday), Room 205, 16:00-17:30

Chair: Peter Sköld, Gabriella Nordin

16:00-16:05  C11-O01  INTRODUCTION

16:05-16:20  C11-O02  CONSTRUCTING THE PAST OF ARCTIC FUTURES: HISTORY AND HERITAGE AS GEOPOLITICS
  D. Avango

16:20-16:35  C11-O03  THE IMPACT OF ENVIRONMENTAL CHANGE ON THE ARCTIC ABORIGINAL PEOPLE’S ECONOMY — A CASE STUDY OF THE INUIT IN CANADA
  M. Pan

16:35-16:50  C11-O04  CULTURAL CONFRONTATION OR COEXISTENCE? INDIGENOUS PEOPLES OF THE NORTH SOVIET UNION BETWEEN RESISTANCE AND CO-OPTATION
  A. A. Ivanova*, F. M. Stammier

16:50-17:05  C11-O05  CULTURAL HERITAGE AS WE AFFECT IT AND IT AFFECTS US
  S. Barr

17:05-17:20  C11-O06  INDUSTRIAL HERITAGE SITES IN THE ARCTIC AS SOURCES FOR HISTORICAL RESEARCH
  D. Avango

17:20-17:30  C11-O07  CONCLUDING DISCUSSION

Joint Session of C04, C05, C10, C11

April 29 (Wednesday), Conference Room, 10:45-12:15

PANEL DISCUSSION ON COMMUNITY INVOLVEMENT IN SCIENCE AND RESEARCH
  Carl Christian Olsen (Puju), Larisa Abryutina with Alona Yefimenko, Peter Sköld,
  Malgorzata Smieszek, Sharon Edmunds-Potvin (tbc)
**Poster session, 3F Foyer**

*<Poster Session>*

**First group:** A1, A2, A4, B2, B6, B9, C3, C4, C6, C7, C8, C10

**Set up:** April 27, 12:30-

**Core time:** April 28, 17:30-19:00

**Removal:** April 28, -19:00

**Second group:** A6, B1, B3, B4, B5, B7, B8, B10, C2, C5

**Set up:** April 28, 9:00-

**Core time:** April 29, 17:30-18:45

**Removal:** April 30, -13:45

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**A1: Understanding the Arctic climate change and its global influences: Japan's contributions and suggestions for the future**

Core time: April 28 (Tuesday), 17:30-19:00

**A01-P01** CHANGES IN PRECIPITATION OVER THE ARCTIC PROJECTED BY GLOBAL ATMOSPHERIC MODELS WITH 20-KM AND 60-KM GRID SIZES

S. Kusunoki*, M. Hosaka, R. Mizuta, K. Yoshida, T. Ose, I. Takayabu

**A01-P02** MRI LANDSURFACE MODEL HAL

M. Hosaka*

**A01-P03** INTRODUCTION OF NEW LAND PROCESSES AND ITS CONTRIBUTION TO AN ATMOSPHERE-OCEAN GENERAL CIRCULATION MODEL

R. O'ishi*, K. Tanaka, K. Yoshimura, A. Abe-Ouchi

**A01-P04** CLIMATE MODELLING STUDIES IN THE GRENE ARCTIC CLIMATE RESEARCH PROJECT

T. Nozawa*, GRENE climate modelling group

**A01-P05** INTEGRATING FIELD SCIENCE AND MODELING: CHALLENGES AND PERSPECTIVES

T. Ise*

**A01-P06** CHARACTERISTICS OF CLOUD FRACTION AT NY-ÅLESUND IN THE ARCTIC AND SYOWA STATION IN THE ANTARCTIC

M. Miyagawa*, R. Fujimoto, M. Kuji, M. Yabuki, M. Shiobara

**A01-P07** GROUND-BASED REMOTE-SENSING FOR CLOUDS, AEROSOL AND WATER VAPOR IN NY-ÅLESUND, SVALbard AND THE GRENE ARCTIC CAMPAIGN

M. Shiobara*, M. Yabuki, K. Ohora, M. Kuji, H. Okamoto, T. Takano, H. Kobayashi, M. Koike, J. Ukita

**A01-P08** TETHERED BALLOON-BORNE CLOUD MEASUREMENTS WITH CLOUD PARTICLE MICROSCOPE SONDE IN NY-ÅLESUND


**A01-P09** AEROSOL OPTICAL PROPERTIES OBTAINED BY SKY-RADIOMETER MEASUREMENTS AT NY-ÅLESUND, SVALbard AND A CLOUD-SCREENING METHOD APPLIED FOR SKY-RADIOMETRY

K. Ohora*, M. Shiobara, N. Tanaka, H. Kobayashi

**A01-P10** WINTER WEATHER IN JAPAN CONTROLLED BY LARGE-SCALE ATMOSPHERIC AND SMALL-SCALE OCEANIC PHENOMENA

Y. Ando*, M. Ogi, Y. Tachibana, K. Kodera, K. Yamazaki

**A01-P11** SEASONAL VARIATIONS OF BLACK CARBON AND AEROSOL OPTICAL PROPERTIES OVER BARROW IN THE ARCTIC

P. R. Sinha*, Y. Kondo, J. Ogren, A. Jefferson

**A01-P12** SUMMARY ON RESEARCH ACTIVITIES OF THE GRENE ATMOSPHERIC GROUP

J. Ukita*, M. Koike, Y. Miyoshi, K. Yamazaki

**A01-P13** APPROACHES FOR UNDERSTANDING ARCTIC CHANGE BY CRYSOPHERIC STUDY IN THE GRENE-ARCTIC PROJECT

H. Enomoto

**A01-P14** MEASUREMENTS OF ATMOSPHERIC BLACK CARBON AEROSOLS OVER THE ARCTIC OCEAN ON R/V MIRAI DURING SEPTEMBER 2014

F. Taketani*, T. Miyakawa, Y. Komazaki, H. Takashima, X. Pan, Y. Kanaya

**A01-P15** OCEANIC CO2 EVOLUTIONS AT THE FIXED STATIONS IN THE ARCTIC IN SUMMER

N. Kosugi*, D. Sasano, M. Ishii, S. Nishino, J. Inoue, H. Yoshiokawa

**A01-P16** STUDIES ON GREENHOUSE GAS CYCLES IN THE ARCTIC AND THEIR RESPONSES TO CLIMATE CHANGE

S. Aoki*, GRENE #5 members

**A01-P17** ESTIMATING MONTHLY CO2 FLUX DISTRIBUTION IN THE ARCTIC AND ITS SPATIOTEMPORAL VARIABILITY

S. Yasunaka*, M. Murata, E. Watanabe, N. Kosugi, D. Sasano, M. Ishii, S. Nishino, H. Uchida

**A01-P18** ECOSYSTEM STUDIES OF THE ARCTIC OCEAN WITH DECLINING SEA ICE

T. Kikuchi*
A1-P19 CHARACTERISTICS OF SEA-ICE DRAFT REVEALED BY A MOORED ICE-PROFILING SONAR IN THE CHUKCHI SEA OFF BARROW, ALASKA
Y. Fukamachi*, D. Simizu, K. I. Ohshima, K. Iwamoto, H. Eicken, A. R. Mahoney

A1-P20 ARCTIC SEA ICE PREDICTION WITH A GLOBAL COUPLED ATMOSPHERE-OCEAN MODEL
M. I. Nodzu*, M. Ishii, H. Tatebe, H. Koyama, Y. Tanaka

A1-P21 A WIND-DRIVEN, HYBRID LATENT AND SENSIBLE HEAT COASTAL POLynyA AT BARROW, ALASKA
D. Hirano*, Y. Fukamachi, E. Watanabe, K. Iwamoto, A. Mahoney, H. Eicken, D. Shimizu, K. I. Ohshima, T. Tamura

A1-P22 COORDINATED OBSERVATIONAL AND MODELING STUDIES ON THE BASIC STRUCTURE AND VARIABILITY OF THE ARCTIC SEA ICE-OCEAN SYSTEM
H. Hasumi*  

A1-P23 SEA ICE PREDICTION AND CONSTRUCTION OF ICE NAVIGATION SUPPORT SYSTEM FOR THE ARCTIC SEA ROUTE
H. Yamaguchi*  

A1-P24 CATASTROPHIC REDUCTION OF SEA ICE: FUNDAMENTAL MECHANISMS ASSOCIATED WITH ICE-OCEAN COUPLED DYNAMICS
K. Shimada*

A2: Paleoclimatic perspective on Arctic changes and polar amplification
Core time: April 28 (Tuesday), 17:30-19:00

A2-P01 SOURCES OF METEOROLOGICAL DATA FOR THE AREA OF NOVAYA ZEMLYA IN THE EARLY INSTRUMENTAL PERIOD
P. Wyszynski*, R. Przybylak, T. Strzyzewski

A2-P02 METEOROLOGICAL CONDITIONS OF THE AREA OF THE BARENTS AND KARA SEAS IN THE EARLY INSTRUMENTAL PERIOD
T. Strzyzewski*, P. Wyszynski, R. Przybylak

A2-P03 PRELIMINARY RESULTS OF AN ICE CORE OBTAINED FROM NORTHWESTERN GREENLAND ICE SHEET (SIGMA-D)
H. Motoyama*, S. Matoba, K. Fujita, T. Yamasaki, Y. Omura, M. Minowa, Y. Komuro, M. Kadota, S. Yamaguchi, T. Aoki

A2-P04 CARBONACEOUS AEROSOL TRACERS IN ICE-CORES RECORD MULTI-DECADAL CLIMATE OSCILLATIONS
O. Seki*, K. Kawamura, J. Bendle, Y. Fujii

A2-P05 THE RELATION BETWEEN THERMOKARST LAKE SEDIMENTS, HOLOCENE CLIMATE DEVELOPMENT AND ICE-WEDGE PATTERNS IN NORTHERN SIBERIA

A2-P06 VARIABILITY OF TRACE INORGANIC SPECIES IN AN ICE CORE FROM NEEM, GREENLAND

A2-P07 GLACIAL ATLANTIC OVERTURNING CONTROLLED BY ICE SHEETS AND ATMOSPHERIC CARBON DIOXIDE
A. Abe-Ouchi*

A2-P08 RELATIONSHIP BETWEEN CLIMATIC STABILITY AND MEAN CLIMATIC STATE OVER THE PAST EIGHT GLACIAL CYCLES
K. Kawamura*

A4: Geospace over and related to the Arctic region
Core time: April 28 (Tuesday), 17:30-19:00

A4-P01 VERTICAL STRUCTURE OF TEMPERATURE VARIATIONS IN THE MESOSPHERE AND LOWER THERMOSPHERE REGION DURING STRATOSPHERIC SUDDEN WARMING
J. H. Kim*, J. Geonhwa, Y. I. Won, B. M. Kim, H. Choi, S. J. Kim

A4-P02 COMPOUND AURORAL MICROMORPHOLOGY: GROUND-BASED HIGH-SPEED IMAGING
K. Ryuho*, F. Yoko

A4-P03 VARIATIONS OF TEMPERATURE AND WINDS IN THE MESOSPHERE AND LOWER THERMOSPHERE ABOVE TROMSOE

A4-P04 UPPER ATMOSPHERE COOLING OVER THE PAST 33 YEARS

A4-P05 NIPR TRAJECTORY MODEL (NITRAM) AND METEOROLOGICAL FIELD DISPLAY SYSTEM
Y. Tomikawa*

A4-P06 FURTHER OBSERVATIONS OF 4FCE AURORAL ROAR
Y. Sato*, A. Kadokura, Y. Ogawa, A. Kumamoto, Y. Katoh
CURRENT STATUS OF UPPER ATMOSPHERE PHYSICS OBSERVATION IN ICELAND IN 2015

IUGONET TOOLS FOR INTERDISCIPLINARY STUDY ON UPPER ATMOSPHERE

PERIODIC VARIATION CHARACTERISTICS OF THE HIGH-LATITUDINAL TROPOPAUSE OVER POINT BARROW (71.3°N, 156.8°W)
R. Wang*, S. Zhang, H. Yang

EFFECTS OF COSMIC RAY INPUT ON CLOUDS AND CLIMATE IN ANTARCTICA

LONG TERM METEOR WIND RADAR OBSERVATIONS IN ARCTIC NORWAY
M. Tsutsumi*, C. M. Hall

ROSOMIC: A PROJECT IN THE SCOSTEP VARSITI PROGRAM
W. Ward*, F.-J. Luebken, A. Seppala

STUDY ON GENERATION MECHANISMS OF A SPORADIC SODIUM LAYER ABOVE TROMSOE, NORWAY DURING A NIGHT OF THE HIGH AURORA ACTIVITY

SEASONAL VARIATION AND SOLAR ACTIVITY DEPENDENCE OF THE QUIET-TIME IONOSPHERIC TROUGH
T. Ishida*, Y. Ogawa, A. Kadokura, Y. Hiraki, I. Haggstrom

EFFECT OF THAW DEPTH ON FLUXES OF CO2 AND CH4 IN MANIPULATED ARCTIC COASTAL TUNDRA OF BARROW, ALASKA
Y. Kim*, W. Oechel

ACCUMULATION OF CARBON AND NITROGEN IN VEGETATION AND SOILS OF DEGLACIATED AREA AND MUDBOILS IN ELLESMERES ISLAND, HIGH-ARCTIC CANADA
T. Osono*, A. S. Mori, M. Uchida, H. Kanda

VEGETATION MAPPING AND ESTIMATION OF REGIONAL CH4 EMISSION FOR TAIGA-TUNDRA BOUNDARY IN EAST SIBERIA
T. Morozumi*, I. Bragin, R. Shingubara, S. Takano, S. Tei, T. C. Maximov, A. Sugimoto

LINKAGE BETWEEN PHOTOTROPH COMMUNITY STRUCTURES AND THE PHOTOSYNTHESIS OF DIFFERENTLY PIGMENTED GROUPS OF BIOLOGICAL SOIL CRUSTS IN A HIGH ARCTIC GLACIER FORELAND, SVALBARD
Y. Tanabe*, J. Uetake, S. Masumoto, M. Uchida

METHANE EXCHANGE IN A POORLY-DRAINED BLACK SPRUCE FOREST OVER PERMAFROST OBSERVED WITH THE EDDY COVARIANCE TECHNIQUE

INTERANNUAL VARIATION IN CH4 EFFLUX AT TAIGA-TUNDRA BOUNDARY ON THE LOWLAND OF INDIKRGA RIVER
R. Shingubara*, A. Sugimoto, J. Murase, S. Tei, S. Takano, T. Morozumi, G. Iwahana, T. C. Maximov

CHANGE IN PHOTOSYNTHETIC CAPACITIES OF EARLY SUCCESSIONAL ECOSYSTEM AFTER WILDFIRES IN INTERIOR ALASKA
T. Shirota*, K. Yasue, T. C. Maximov

AN IMPORTANCE OF BRANCH-BRANCH INTERACTION WITHIN CROWN OF OPEN-GROWN BLACK SPRUCE IN CENTRAL ALASKA
T. Shirota*, K. Yasue, A. Osawa

SPATIAL VARIATION OF SNOW COVER IN INDIKRGA LOWLAND OBSERVED IN SPRING 2014
S. Takano*, S. Tei, A. Sugimoto, T. C. Maximov

THE EFFECTS OF CLIMATE MANIPULATION ON SOIL ORGANIC CARBON CHARACTERISTICS IN NORTHEAST GREENLAND
J. Y. Jung*, A. Michelsen, N. M. Schmidt, Y. K. Lee

INFLUENCE OF THE THAWING PERMAFROST ON METHANE DIFFUSION FLUX FROM LAKES IN THE ALASKAN ARCTIC ZONE
M. Sasaki*, M. Uchida, M. Kondo, M. Utsumi, S. Yonemura, N. Nakayama

SPATIAL PATTERNS AND INTER-TREE INTERACTION IN A MATURE LARIX SIBIRICA STAND AT THE NORTHERN ECOTONE IN MONGOLIA
D. Saito*, T. Shirota, T. Tanabe, K. Yasue, N. Baatarbileg

BRANCHING PROPERTIES OF DECLINING LARIX SIBIRICA TREES IN NORTHERN MONGOLIAN BOREAL FOREST
T. Tanabe*, T. Shirota, D. Saito, K. Yasue, N. Baatarbileg
A06-P14 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
S. Yonemura*, M. Uchida, M. Kondo, G. Iwahana, M. Utsumi, K. Yoshikawa, L. Hinzman

A06-P15 EVAPOTRANSPIRATION AND CARBON DIOXIDE FLUXES OVER LARCH FORESTS WITH DIFFERENT SOIL WATER CONDITION AT EASTERN SIBERIA
A. Kotani*, T. Ohta, T. Maxtimov

A06-P16 TERRESTRIAL ECOSYSTEMS OF THE NOVOSIBIRSK ARCHIPELAGO (ARCTIC OCEAN, RUSSIA): CURRENT STATUS AND NEW THREATS
I. M. Okhlopkov*, V. E. Kolodeznikov, R. V. Desyatkin, S. Tatsuzawa, N. G. Solomonov

B1: Arctic Climate Change and Potential Mid-latitude Weather Linkages: Large-scale Atmospheric Circulation and Storm Track Dynamics
Core time: April 29 (Wednesday), 17:30-18:45

B01-P01 AIR TEMPERATURE AND PRECIPITATION ON THE KAFFIÖRA PLAIN AND THE WALDEMAR GLACIER (NW SPITSBERGEN) FROM 1978 TO 2014
R. K. Przybylak*, A. Arazny

B01-P02 ROLE OF SEA ICE REDUCTION IN EURASIAN WINTERTIME COOLING
S. Outten*, I. Esau

B01-P03 THE GREENLAND BLOCKING INDEX 1948-2014: A KEY INDICATOR OF ARCTIC-MID LATITUDE WEATHER/CLIMATE COUPLING?
E. Hanna*, J.E. Overland, R.J. Hall

B01-P04 EFFECTS OF THE RECENT ARCTIC SEAICE REDUCTION ON THE VERTICAL COUPLING PROCESS BETWEEN THE TROPOSPHERE AND STRATOSPHERE

B01-P05 ATMOSPHERIC RESPONSE TO ANOMALOUS SEA ICE IN THE SEA OF OKHOTSK
K. Nishii*, H. Nakamura, T. Nakamura

B01-P06 PERSISTENT COOLING OF THE POLAR STRATOSPHERE IN 2011 WINTER AND SPRING
K. Nishii*, H. Nakamura, Y. J. Orsolini

B01-P07 INFLUENCE OF THE GULF STREAM ON THE BARENTS SEA ICE RETREAT AND EURASIAN COLDNESS DURING EARLY WINTER
K. Sato*, J. Inoue, M. Watanabe

B01-P08 IMPACT OF ZONAL WIND CHANGES ON THE INSTABILITIES RATES OF PLANETARY AND BAROCLINIC WAVES
B. Crasemann*, H. L. Tanaka, K. Dethloff, D. Handorf, R. Jaiser

B01-P09 A STUDY ON THE CYCLOGENESIS OF THE ARCTIC CYCLONE FROM THE PERSPECTIVE OF QUASI-GEOSTROPHIC POTENTIAL VORTICITY
H. Asai*, J. Inoue, N. Sato

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
H. Nakamura*, L. Wang, K. Nishi

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.
C. Cavazos-Guerra*, A. Lauer

B2: Current and Future Observing Strategies for Understanding the Evolving Arctic Climate and Ecological System
Core time: April 28 (Tuesday), 17:30-19:00

B02-P01 SVALBARD INTEGRATED ARCTIC EARTH OBSERVING SYSTEM (SIOS): A RESEARCH INFRASTRUCTURE FOR ARCTIC EARTH SYSTEM SCIENCE
J. B. Oerbaek*, O. D. Christine, R. Roenneberg, B. L. Bentie, H. D. Kaja, L. Kresse

B02-P02 HERBIVORY NETWORK: AN INTERNATIONAL, COLLABORATIVE EFFORT TO STUDY HERBIVORY IN NORTHERN AND ALPINE ENVIRONMENTS

B02-P03 ARCTIC OCEAN BOUNDARY ARRAY: METHODS, AND MODELLED SEASONALITY OF FLUXES AND STORAGE
S. Bacon*, Y. Aksenov

B02-P04 ARCTIC SEA ICE MONITORING AND RESEARCH THROUGH INDIGENOUS AND COMMUNITY-BASED OBSERVATIONS
M. Kaufman, H. Eicken*, P. Pulsifer, I. Holak, B. Sheffield

B02-P05 ICE-ARC: ICE, CLIMATE, AND ECONOMICS – ARCTIC RESEARCH ON CHANGE - EU FUNDED PROJECT
E. A. K. Ford, J. Wilkinson
B3: Changing permafrost and its impact on the physical, ecological, economic and cultural Earth system
Core time: April 29 (Wednesday), 17:30-18:45

B03-P01 PERMAFROST AND INDIGENOUS LAND USE IN THE NORTHERN URALS: KOMI AND NENETS REINDEER HUSBANDRY
J. O. Habeck*, K. V. Istomin

B03-P02 MAPPING PERMAFROST-RELATED TERRAIN FEATURES WITH PURVIEW
S. J. McCuaig*, V. E. Roujanski, E. Hoeve

B03-P03 UNDERSTANDING THERMOKARST LAKE DYNAMICS IN ARCTIC ALASKA: CASE STUDIES BASED ON SEDIMENT CORES
J. Lenz*, S. Wetterich, B. M. Jones, G. Grosse

B03-P04 SIMULATING A ROLE OF NATURAL FIRE DISTURBANCE ON THE SOIL CARBON STORAGE OF BOREAL FOREST AND TUNDRA ECOSYSTEMS IN ALASKA

B03-P05 INTRINSIC CHEMICAL CONVERSION OF HEAVY METAL IN POLAR REGION
K. Kim*

B03-P06 SIZE AND FREQUENCY DISTRIBUTION OF THERMOKARST LAKES IN THE EASTERN SIBERIA.
H. Saito*, Y. Iijima, M. Ulrich

B4: Arctic snow cover changes and their consequences
Core time: April 29 (Wednesday), 17:30-18:45

B04-P01 SCANNING PAN-ARCTIC SNOW CONDITIONS OF FREEZING AND MELTING FOR ANALYZING REGIONAL AND INTERANNUAL CHANGES, AND APPLICATION TO FIELD OBSERVATION PLANNING
N. Alimasi*, H. Enomoto, K. Sugiura, M. Hori, T. Kameda

B04-P02 MEASUREMENTS OF CHEMICAL COMPOSITIONS IN THE SNOW COVER AT MT. TATEYAMA, JAPAN
K. Watanabe*, T. Hirai, K. Nakagawa, C. Yachi, N. Yamazaki

B04-P03 SOLAR HEATING IN SNOWPACK AND RADIATIVE FORCING BY SNOW IMPURITIES EVALUATING BY A PHYSICALLY BASED SNOW ALBEDO MODEL
T. Aoki*, K. Kuchiki, M. Niwano, S. Matoba, Y. Kodama

B04-P04 RUSSIA-JAPAN COLLABORATIVE STUDIES ON GEOGRAPHIC AND ECOLOGICAL CHANGES OF LARGE MAMMAL FAUNA IN THE ARCTIC AND SUB-ARCTIC YAKUTIA.
S. Tatsuzawa*, I. Okhlopkov, N. Solomonov, E. Nikolaev, R. Kirillin, E. Kirillin

B5: Remote Sensing of the Arctic System
Core time: April 29 (Wednesday), 17:30-18:45

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

B05-P02 VALIDATION OF SNOW DEPTH BY MICROWAVE REMOTE SENSING WITH IN-SITU FIELD DATA
Y. Kim*, H. Enomoto

B05-P03 SURFACE AND SUBSURFACE CONDITIONS AND SATELLITE IMAGES IN PERMAFROST AREA AFTER WILDFIRE, SEWARD PENINSULA, ALASKA

B05-P04 REGIONAL CO2 UPTAKE ESTIMATION APPLYING THE LIGHT USE EFFICIENCY MODEL WITH MODIS AND FIELD DATA TO EXAMINE WILDFIRE EFFECTS IN ALASKAN BOREAL FOREST

B05-P05 APPLICATION OF MULTICOPTER FOR SNOW CONDITION MEASUREMENTS IN THE MOUNTAIN RANGE
K. Sugiura*, N. Wada

B05-P06 DETECTION OF MELT POND DISTRIBUTION ON THE ARCTIC SEA ICE FROM SATELLITE MICROWAVE DATA
Y. Tanaka*, K. Tateyama, T. Kameda, H. Enomoto

B05-P07 ARCTIC SEA ICE AND MELT POND CHARACTERISTICS OBSERVED BY VERY HIGH RESOLUTION REMOTELY SENSED DATA
J. W. Park*, H. C. Kim, S. H. Hong, C. U. Hyun

B05-P08 PRIMARY PRODUCTIVITY ALGORITHM ROUND ROBIN (PPARR) OF SATELLITE-BASED MODELS FOR THE ARCTIC OCEAN
Y. J. Lee*, P. A. Matrai, M. A. M. Friedrichs, V. S. Saba

B05-P09 MELT POND DELINEATION FROM ARCTIC SEA ICE USING VHR SATELLITE IMAGE
C. U. Hyun*, H. C. kim
B05-P10  ARCTIC SEA ICE THICKNESS MONITORING USING CRYOSAT-2 SATELLITE DATA
S. Lee*, J. Im, H. Han, J. Kim

B05-P11  OBSERVATION OF ARCTIC SEA ICE CONDITION IN THE CANADA BASIN IN 2014 SUMMER -FROM JOIS2014 CRUISE-
S. Hoshino*, Y. Tanaka, K. Tateyama, H. Yamaguchi, K. Shimada

B05-P12  COLOR MONITORING ON ALPINE SNOWPACK FOR EVALUATION OF VOLCANIC GAS DIFFUSION
K. Szawa*, K. Higuchi, H. Kuramitz, K. Kawamura, N. Wada

B05-P13  ULTRA-STABLE, HIGH POWER SODIUM TEMPERATURE/WIND LIDAR DEPLOYED AT EISCAT RADAR SITE, NORWAY (69.6°N, 19.2°E)

B06-P01  SMALL- AND MESOSCALE VARIABILITY OF BENTHIC FOOD WEBS IN ARCTIC
J. Legezynska*, A. Zaborska, M. W. Kowalczuk, E. Jankowska, K. Pazdro

B06-P02  THE SOURCES OF FOOD FOR BENTHIC COMMUNITIES IN THE TWO ARCTIC FJORDS CHARACTERISED BY DIFFERENT ENVIRONMENTAL CONDITIONS
A. Zaborska*, J. Legezynska, M. W. Kowalczuk

B06-P03  SEASONAL VARIABILITY IN HIGH ARCTIC FJORD BENTHIC FOOD WEB – STABLE ISOTOPE CASE STUDY
M. Kedra*, K. Karol, A. Winogradow, M. Nathalie, S. Bourgeois, J. Richard

B06-P04  MEIOFAUNAL COMMUNITIES ALONG AN OFFSHORE GRADIENT IN TWO GLACIAL SPITSBERGEN FJORDS
K. Grzelak*, M. Gluchowska, K. Gregorczyk, J. M. W. Weslawski

B06-P05  CHANGES IN ARCTIC BENTHOS – DEMAND FOR A “FUNCTIONAL ATLAS”
R. Degen, T. Brey, A. Boetius, D. Piepenburg*

B06-P06  A PAN-ARCTIC OR POLAR CHALLENGE? INSIGHTS FROM A COMPARATIVE STUDY OF BENTHIC FUNCTIONS ON BOTH POLES
H. Link, D. Piepenburg*, P. Archambault

B06-P07  ARCTIC OCEAN NUTRIENTS AND CARBON BIOGEOCHEMISTRY STUDIES FROM THE EMERGING PAN-ARCTIC HYDROGRAPHIC ARRAY
S. Torres-Valdes*, T. Tsubouchi, G. MacGilchrist, A. Naveira-Garabato, E. Davey, S. Bacon

B06-P08  SPATIAL DISTRIBUTION AND CHARACTERISTICS OF DISSOLVED ORGANIC MATTER IN THE BEAUFORT AND CHUKCHI SEAS
Y. Lee*, S. Y. Ha, J. O. Min, E. J. Yang, S. H. Kang

B06-P10  DISTRIBUTIONS OF THE PACIFIC-ORIGIN WATERS IN THE CHUKCHI BORDERLAND, 2010-2014

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.
W. J. William*, M. Humfrey

B06-P12  SEASONAL AND ANNUAL FLUX CHANGES OF MICROZooplankton (radiolaria) IN THE WESTERN ARCTIC OCEAN: ENVIRONMENTAL INDICES IN A WARMING ARCTIC

B06-P13  SEASONAL AND INTERANNUAL VARIABILITY OF REMOTELY SENSED CHLOROPHYLL-A IN ARCTIC OCEAN DURING A RECENT DECADE
J. Park*, E. Ko, S. H. Kang

B06-P14  DIEL VERTICAL MIGRATION OF ARCTIC COPEPODS UNDER SEA ICE IN THE CANADA BASIN

B06-P15  SEASONAL CHANGE OF SOUND SCATTERS DERIVED FROM ZOOPLANKTON IN THE SOUTHERN CHUKCHI SEA
M. Kitamura*, K. Amakasu, S. Nishino, T. Kikuchi

B06-P16  GROWING OF THE ARCTIC MARINE ECOSYSTEM - FOOD-WEB TRAITS OF THE HIGH LATITUDE SPITSBERGEN FJORDS ECOSYSTEMS WITH CONTRASTING OCEANOGRAPHIC CONDITIONS

B6: A Pan-Arctic Challenge: Predicting the Future of Marine Biota and Ecosystem Connectivity Through Field Studies and Data Integration
Core time: April 28 (Tuesday), 17:30-19:00

B06-P01  SMALL- AND MESOSCALE VARIABILITY OF BENTHIC FOOD WEBS IN ARCTIC
J. Legezynska*, A. Zaborska, M. W. Kowalczuk, E. Jankowska, K. Pazdro

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Y. Lee*, S. Y. Ha, J. O. Min, E. J. Yang, S. H. Kang

B06-P09  ADAPTABILITY TO ENVIRONMENTAL CHANGE IN A HIGH-LATITUDE FJORD ECOSYSTEM: THE KONGSFJORDEN ECOSYSTEM FLAGSHIP PROGRAM
H. Hop, K. Bischof, R. Neuber*, G. W. Gabrielsen, J. M. W. Weslawski, Ch. Wiencke

B06-P10  DISTRIBUTIONS OF THE PACIFIC-ORIGIN WATERS IN THE CHUKCHI BORDERLAND, 2010-2014

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B06-P16  GROWING OF THE ARCTIC MARINE ECOSYSTEM - FOOD-WEB TRAITS OF THE HIGH LATITUDE SPITSBERGEN FJORDS ECOSYSTEMS WITH CONTRASTING OCEANOGRAPHIC CONDITIONS
B06-P17  DETERMINATION OF PHOTOSYNTHETIC PIGMENT PRODUCTION RATE AND DISSOLVED AMINO ACID FROM MELTING PONDS ON ARCTIC SEA ICE

B06-P18  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

B7: Atmosphere-ocean-ice interactions and aspects related to a future, seasonally ice free Arctic Ocean
Core time: April 29 (Wednesday), 17:30-18:45

B07-P01  ENHANCING CALCULATION OF THIN SEA ICE GROWTH
I. Appel*

B07-P02  THE ARCTIC SEA ICE SEASONALITY INDEX
T. Haine*, T. Martin

B07-P03  CHANGE IN SEA ICE THICKNESS CAUSED BY THE ICE MOTION
N. Kimura*, K. Tateyama, H. Yamaguchi

B07-P04  THE SEA ICE ALBEDO FEEDBACK IN ACTION: A CASE STUDY
A. West, J. Ridley*

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
P. U. Monarcha*, R. Przybylak, A. Arazny

B07-P06  CHANGES OF HEAT BALANCE IN HORNUSD (SW SPITSBERGEN) IN THE PERIOD FROM MAY TO OCTOBER 2014
R. K. Przybylak*, P. Wlodzimierz, A. Andrzej, W. Przemyslaw, F. Krzysztof

B07-P07  CHANGES TO THE SURFACE WAVE BOUNDARY LAYER IN THE PRESENCE OF PARTIAL ICE COVER
S. Zippel*

B07-P08  MID-WINTER FREEZE EXPERIMENT IN THE ARCTIC OCEAN: NORWEGIAN YOUNG SEA ICE CRUISE (N-ICE2015)

B07-P09  CONTINUOUSLY RADIOSONDE OBSERVATION ON-ICE AND OFF-ICE BY ICEBREAKER PASSING THROUGH MARGINAL ICE ZONE IN LAPTEV SEA
K. Komatsu*, Y. Tachibana, V. Alexeev

B07-P10  HORIZONTAL VARIABILITY SPECTRUM IN THE ARCTIC OCEAN
C. Marcinko*, A. Martin, J. Allen

B07-P11  IN SITU MEASUREMENTS OF AN ENERGETIC WAVE EVENT IN THE ARCTIC MARGINAL ICE ZONE
C. O. Collins*, W. E. Rogers, A. Marchenko, A. V. Babanin

B07-P12  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

B07-P13  FORCING, VARIABILITY, AND PATHWAY OF A SIBERIAN BUOYANCY-DRIVEN CURRENT AND ITS IMPLICATIONS FOR ARCTIC FRESHWATER VARIABILITY
M. Janout*, Y. Aksenov, J. Hoellemann, B. Rabe, U. Schauer, M. Karcher, Y.-D. Lenn, I. Polyakov, S. Bacon, A. Coward, H. Kassens, L. Timokhov

B07-P14  MAGNITUDE AND VARIATION OF UNDER ICE PRIMARY PRODUCTION IN THE ARCTIC OCEAN
M. Jin*

B07-P15  NUTRIENT SUPPLY AND BIOLOGICAL RESPONSE CAUSED BY WIND-INDUCED FORCING IN THE NORTHERN CHUKCHI SEA

B8: From human security to geopolitical dynamics in the Global Arctic: the global implications of rapid environmental, economic, and societal change
Core time: April 29 (Wednesday), 17:30-18:45

B08-P01  PSYCHOLOGICAL SAFETY OF SHIFT WORKERS IN THE ARCTIC
T. Tyulyubaeva*, N. Simonova
**B9: Arctic Governance, Sustainable Development of Local Communities and Non-Arctic State’s Contribution**

**Core time:** April 28 (Tuesday), 17:30-19:00

- **B09-P01** THE NORTHERN INDIGENOUS PEOPLES AND CO-MANAGEMENT OF THE RUSSIAN ARCTIC TERRITORIES IN THE PERIOD OF INDUSTRIAL DEVELOPMENT
  E. Gladun, G. Chebotarev

- **B09-P02** RUSSIAN COAL MINING IN SVALBARD: PATHS TO SUSTAINABILITY
  A. Vlakhov

- **B09-P03** IMPORTANCE OF NORTHERN RESOURCES OF YAKUTIA AND ECOLOGICAL ASPECTS OF ARCTIC DEVELOPMENT
  A. K. Lazareva

- **B09-P04** STAGES OF TAIGA-ALAS LANDSCAPES SETTLING IN CENTRAL YAKUTIA
  R. Desyatkin

- **B09-P05** COMPARISON OF THE DEFINITION OF INDIGENOUS PEOPLE IN RUSSIAN AND INTERNATIONAL LAW
  A. A. Petrova

- **B09-P06** ARCTIC SHIPPING AND ASIAN SHIPPING COMPANIES: A REAL INTEREST?
  F. Lasserre

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

**Core time:** April 29 (Wednesday), 17:30-18:45

- **B10-P01** RECENT THINNING OF BOWDOIN GLACIER, A MARINE-TERMINATING OUTLET GLACIER IN NORTHWESTERN GREENLAND

- **B10-P02** SURFACE ELEVATION CHANGE ON ICE CAPS IN NORTHWESTERN GREENLAND
  J. Saito, S. Tsutaki, T. Sawagaki, S. Sugiyama

- **B10-P03** EVOLUTION OF SVALBARD LAND-TERMINATING GLACIERS OVER THE 21ST CENTURY
  F. J. Navarro, M. Moeller, A. Martin-Espanol, R. L. Finkelnburg

- **B10-P04** GLACIER AND ROCK TEMPERATURE CHANGES IN THE SUNTAR-KHAYATA RANGE (NORTHEASTERN RUSSIA) OVER THE LAST 50 YEARS

- **B10-P05** SPATIAL AND TEMPORAL DISTRIBUTIONS OF HIGH TURBIDITY OCEAN WATER OFF THE NORTHWESTERN GREENLAND COAST
  Y. Ohashi, T. Iida, S. Sugiyama

- **B10-P06** TEMPORAL AND SPATIAL VARIATIONS IN DARK ICE SURFACE ON GREENLAND ICE SHEET DERIVED FROM MODIS SATELLITE IMAGE
  R. Shimada, N. Takeuchi, T. Aoki

- **B10-P07** RETRIEVALS OF SNOW ALBEDO AND ICE SURFACE TEMPERATURE IN THE NORTHWEST GREENLAND USING MODIS DATA
  T. Tanikawa, M. Hori, T. Aoki, W. Li, N. Chen, K. Stammes

- **B10-P08** TEMPORAL CHANGE IN CHLOROPHYLL-A CONCENTRATION ON A SNOWPACK IN QANAAQ ICE CAP IN NORTHWEST, GREENLAND

- **B10-P09** CONCENTRATIONS OF BLACK CARBON IN THE ARCTIC SNOW ANALYZED WITH A SINGLE PARTICLE SOOT PHOTOMETER (SP2)

**C2: Arctic in Rapid Transition - future research directions from the perspective of early career scientists**

**Core time:** April 29 (Wednesday), 17:30-18:45

- **C02-P01** PERMAFROST YOUNG RESEARCHERS NETWORK (PYRN): PERSPECTIVES AND PRIORITIES OF THE NEXT GENERATION ON PERMAFROST RESEARCH

- **C02-P02** ARCTIC IN RAPID TRANSITION (ART) - A PAN-ARCTIC NETWORK INTEGRATING PAST, PRESENT AND FUTURE

- **C02-P03** PARASITES OF SHORTHORN SCULPIN (MYXOCEPHALUS SCORPIUS) IN LITTORAL MARINE HABITATS OF SVALBARD
  T. Tyml, O. Ditrich

- **C02-P04** COMMUNICATING ARCTIC SCIENCE THROUGH SOCIAL MEDIA - EXPERIENCE OF A RESEARCHER-DRIVEN EFFORT OF @OCEANSEAICENPI
  A. K. Pavlov, M. A. Granskog, S. R. Hudson, S. Gerland
C02-P05  ASSOCIATION OF POLAR AND EARLY CAREER SCIENTISTS (APECS) NORDIC RESEARCH PROJECT: “BRIDGING EARLY CAREER RESEARCHERS AND INDIGENOUS PEOPLES IN NORDIC COUNTRIES”
S. A. Juutilainen*, J. Bull, Y. Sjoberg, Y. Zaika, L. Flemming-Sharp, G. Fugmann

C02-P06  TRANSFORMATION OF FROZEN PEATLANDS SOILS UNDER THE INFLUENCE OF CRYOGENIC PROCESSES
O. A. Ogneva*, G. V. Matyshak, O. J. Goncharova, A. A. Bobrick

C3:  Emerging questions in Arctic Geoscience
Core time: April 28 (Tuesday), 17:30-19:00

C03-P01  THE HIGH RESOLUTION RECORD OF ATMOSPHERIC SELENIUM RECOVERED FROM GREENLAND SNOW
K. Lee*, S. B. Hong, J. Lee, J. Chung, S. D. Hur, S. Hong

C4:  Co-design, co-production, co-communication of scientific knowledge? how to frame concerted research for sustainable development in times of change
Core time: April 28 (Tuesday), 17:30-19:00

C04-P01  POTENTIAL BENEFITS AND CHALLENGES OF ESTABLISHING TWO-WAY COMMUNICATION BETWEEN GEOSCIENTISTS AND COMMUNITY STAKEHOLDERS IN RURAL ALASKA
Y. Kontar*

C04-P02  POLAR EDUCATORS INTERNATIONAL AND ITS CONTRIBUTION TO ICARP III
I. Beck*, G. Wesche, P. Azinhaga, L. Huffman

C5:  Advances in Transdisciplinary Arctic Research: Progress on Building Collaborative Agendas for Research Supporting Solutions for Sustainability
Core time: April 29 (Wednesday), 17:30-18:45

C05-P01  PROMOTING ENVIRONMENTAL AND SOCIO-ECONOMIC SUSTAINABILITY IN RURAL ALASKA THROUGH TRANSDISCIPLINARY RESEARCH AND COLLABORATIVE ENGAGEMENT BETWEEN SCIENTISTS, POLICY MAKERS AND STAKEHOLDERS IN DECISION-MAKING
Y. Kontar*

C05-P02  PROGRAMS OF HEALTH AND WELL-BEING IN THE ARCTIC
A. Rautio*, G. Mulvad

C05-P03  CREATION OF FEDERAL UNIVERSITY AS A RESEARCH AND EDUCATION CENTER IN NORTHEAST OF RUSSIA
A. Nikolaev*, E. Mikhailova

C05-P04  THE DYNAMICS OF EVALUATION OF LAND-USE AND LOCAL SELF-GOVERNMENT OF EVENKS IN SOUTHERN YAKUTIA (1998-2014)
O. A. Lazebnik, A. N. Savvinova*, V. V. Filippova, G. Fondahl, G. Poelzer

C05-P05  APECS: A NETWORK FOR POLAR EARLY CAREER SCIENTIST PROFESSIONAL DEVELOPMENT
S. Majaneva*, G. Fugmann

C6:  Understanding Sustainability in the Arctic: From Patchwork to Framework
Core time: April 28 (Tuesday), 17:30-19:00

C06-P01  THE EFFECTS OF CLIMATE CHANGE ON TOZHU REINDEER HERDERS IN SOUTHERN SIBERIA
T. Arakchaa*

C06-P02  TOWARDS COEXISTENCE OF OIL AND GAS INDUSTRY WITH INDIGENOUS COMMUNITIES IN THE RUSSIAN ARCTIC
M. Tysiachniouk*, M. Lamers

C06-P03  LABOUR MARKET OUTCOMES OF MIGRANT WOMEN IN VÄSTERBOTTEN AND NORRBOTTEN
E. Kotyrlo*

C06-P04  SUSTAINABLE ECONOMIC ACTIVITIES IN THE ARCTIC REGION
A. Kornilova*

C7:  The Arctic system; changes and effects with emphasis on freshwater ecosystems
Core time: April 28 (Tuesday), 17:30-19:00

C07-P01  WATER STORAGE CHANGES ON ARCTIC WATERSHEDS. CONTRIBUTION OF FUTURE SWOT MISSION
E. A. Zakharova*, A. V. Kouraev, D. Blumstein, C. Lyon
C07-P02 12 YEARS’ CHANGES OF THE TERRESTRIAL WATER STORAGE IN THE LEONA RIVER BASEN, EASTERN SIBERIA DETECTED BY GRACE
K. Suzuki’, K. Matsuo, T. Hiyama

C07-P03 INCREASES IN PAN-ARCTIC RIVER WATER TEMPERATURE AND HEAT FLUX TO THE ARCTIC OCEAN
H. Park’

C07-P04 FRESHWATER DIATOM ASSEMBLAGES FROM YAKUTIA, EASTERN SIBERIA: PATTERN, DIVERSITY, AND RELATIONSHIP TO ENVIRONMENTAL PARAMETERS
L. A. Pestyakova’, I. Spiridonova, U. Herzschuh

C07-P05 THERMAL EFFECTS FROM GROUNDWATER FLOW - A CASE STUDY FROM A SUBARCTIC FEN WITHIN THE SPORADIC PERMAFROST ZONE OF TAVVAVUOMA, SWEDEN

C07-P06 CYANOBACTERIAL DIVERSITY ALONG A LATITUDINAL ARCTIC GRADIENT
D. Velazquez’, M. Failde, W. F. Vincent, A. Quesada

C07-P07 WARD HUNT LAKE: A SENTINEL ECOSYSTEM AT THE TOP OF THE CANADIAN HIGH ARCTIC
P. N. Begin’, W. F. Vincent

C8: Circumpolar Arctic Coastal Communities Observatory Network: knowledge Hubs for Northern Coastal Sustainability
Core time: April 28 (Tuesday), 17:30-19:00

C08-P01 COASTAL INDIGENOUS COMMUNITIES’ PROBLEMS ASSOCIATED WITH PERMAFROST CHANGES IN EASTERN CHUKOTKA
A. Maslakov’

C08-P02 NEW INSIGHTS INTO COASTAL EROSION RATES ALONG THE YUKON COAST, CANADA
A. M. Konopczak’, H. Lantuit, G. Manson, N. Couture

C08-P03 MORALITY, PRACTICE AND ECONOMY IN A COMMERCIAL SEAL HUNTING COMMUNITY IN CANADA
N. P. Sellheim’

C08-P04 RESILIENCE IN A COASTAL SÁMI COMMUNITY – CHALLENGES TO CURRENT AND FUTURE RESILIENCE AND SUSTAINABLE DEVELOPMENT
H. Amundsen, G. K. Hovelsrud, S. Rybraaten, H. Danneving’

C10: Consulting Arctic communities on research planning
Core time: April 28 (Tuesday), 17:30-19:00

C10-P01 BRAIDING THE DISCOURSE OF COLONIZATION, STRUCTURAL RACISM AND INEQUALITY: HOW IT IMPACTS INDIGENOUS LIVES IN CANADA, FINLAND AND NORWAY.
S. A. Juutilainen’
3. The Floor Map

Toyama International Conference Center

1F

- Entrance Hall
- April 22-30 Registration
- Café de MUSEE
- Travel Desk

2F

- Presentation file desk
- Conference Room
- Rooms 201 to 204
- Rooms 205 to 206
3F

Shimin Plaza

Multi Studio

Lobby

Elevator

W.C.

Foyer

Main Hall

Secretariat

April 24
Reception

April 26
Ice Breaker

April 27-30
Poster Session

2F

Presentation

file desk

Conference Room

ASSW2015  39
4. Events

Reception
Date: April 24, Friday,
Time: 18:30 – 20:30
Place: Foyer, Toyama International Conference Center 3rd floor
*Free entry to all the participants except the side meeting pass holders.
*Please bring you conference name tag with you.

Ice-breaker
Date: April 26, Sunday
Time: 18:30 – 20:30
Place: Foyer, Toyama International Conference Center 3rd floor
*Free entry to all the participants except the side meeting pass holders.
*Please bring you conference name tag with you.
Banquet

Date: April 29, Wednesday
Time: 19:00 – 21:00
Place: Room Ohtori and Asuka, ANA Crowne Plaza Toyama (Hotel), 3rd floor,
*The banquet requires a registration in advance.
*Please bring you conference name tag with you.
The tram schedule (kokusai-kaigijo-mae stop)

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*April 29 is a national holiday in Japan.