

Arctic Science Summit Week 2019

Draft Scientific Program

	<u>Date</u>	<u>Time</u>	<u>Person</u>	<u>Topic</u>
Science Conference Opening <i>Chair TBD</i>	24-May	9:00	<i>Governor of the Region</i>	<i>Science Conference Opening</i>
	24-May	9:15	<i>Vladimir Pavlenko, IASC VP</i>	<i>Welcome by Local Host</i>
	24-May	9:30	<i>Larry Hinzman, IASC President</i>	<i>Welcome by IASC</i>
	24-May	9:45	<i>Elena Kudryashova, Rector of NArFU</i>	<i>Welcome by NArFU</i>
		10:00	<i>Other Speakers TBD</i>	<i>Other Speakers TBD</i>
	24-May	to 10:30	<i>NCA?</i>	<i>International Cooperation in the Arctic</i>
Plenary <i>Chair TBD</i>	24-May	11:00	<i>TBD</i>	<i>TBD</i>
	24-May	11:40	<i>Gabriela Schaeppman-Strub</i>	<i>Vegetation in the Arctic</i>
	24-May	12:20	<i>Dmitry Drozdov</i>	<i>Cold Arctic Resources</i>
Plenary <i>Chair TBD</i>	24-May	16:00	<i>Alexander Volkov</i>	<i>Mineral resources of the Arctic regions of Russia and the problems of their development</i>
	24-May	16:40	<i>Yoo-Kyung Lee</i>	<i>Microbes in the Arctic</i>
	24-May	17:20	<i>TBD</i>	<i>TBD</i>
Plenary <i>Chair TBD</i>	25-May	11:00	<i>Liliya Dobrodeeva</i>	<i>Features of the neuro-immune-endocrine regulation of human adaptation in the Arctic</i>
	25-May	11:40	<i>Michelle Mack</i>	<i>Increasing fire severity, alternate successional trajectories, and the carbon balance of Alaskan boreal forests</i>

	25-May	12:20	Leopold Lobkovsky	Geodynamics and potentially dangerous processes on the Arctic shelf
	<u>Date</u>	<u>Time</u>	<u>Person</u>	<u>Topic</u>
Plenary	27-May	14:00	Victoria Buschman	Facilitating the inclusion of Indigenous participation and knowledge in circumpolar Arctic wetlands conservation
<i>Chair TBD</i>	27-May	14:40	Anatoly Soloviev	Dynamics of changes in the magnetic field of the Arctic
	27-May	15:20	Konstantin Kulikov	Problems and Experience of Ensuring Radiation Safety of the Russian Arctic in Decommissioning and Rehabilitation of Radiation Hazardous Objects
IASC Medal Session	27-May	16:30	Jackie Grebmeier (IASC Medal 2015)	The Distributed Biological Observatory: A Change Detection Array in the Pacific Arctic
<i>Chair Larry Hinzman</i>	27-May	17:00	Marika Holland (via recording)	IASC Medal Lecture - Topic: Understanding, Modeling and Predicting Arctic Climate & Sea Ice
ASSW Closing	28-May	16:30	<i>Vladimir Pavlenko, IASC VP</i>	<i>ASSW Wrap-up</i>
<i>Chair TBD</i>	28-May	16:45	<i>Vladimir Pavlenko & Þorsteinn Gunnarsson</i>	<i>Handover to ASSW2020</i>
	28-May	17:00	<i>APECS & IASC Presidents</i>	<i>Early Career Awards</i>
	28-May	17:10	<i>NArFU Representative</i>	<i>Materials & Technologies for the Arctic</i>
		17:30	-	-
	28-May	to 18:00	<i>TBD</i>	<i>TBD</i>

<u>Session Code</u>	<u>Session Title</u>	<u>24/5</u> <u>14:00</u>	<u>25/5</u> <u>9:00</u>	<u>25/5</u> <u>14:00</u>
A1	Data Science & Arctic Observations (Terrestrial to Spaceborne)		X	
B1	Remote Sensing of the Cryosphere: Permafrost, Glaciers, Sea Ice, and More			X
B2	Environmental Pollution in the Arctic: monitoring, pollutant pathways and impact of external sources		X	
B3	Long-Term Changes in Arctic Social-Ecological Systems	X		
B4	T-MOSAIC: Arctic Connections			X
C1	Arctic Social Development: Urban and rural population in a changing climate		X	X
C2	Industrial Development of the Arctic: challenges, impacts, infrastructure, benefit sharing, and perspectives	X	X	
C3	Humans, Ecosystems, Geopolitics, and Economic Interests in the Arctic: Health, Education, Culture, Security Issues, and Collaboration	X	X	X
D1	Water in the Arctic: Sea Level, Hydrology, Oceans, and More		X	
E1	Polar Meteorology, Climatology & Prediction	X		X
F1	Climate Change and its Impacts in the Arctic	X	X	X
G1	UK-Russia Arctic Scientific Cooperation: Towards a Better Understanding of the Changing Arctic	X		

Session Code: A1

Session Title: Data Science & Arctic Observations (Terrestrial to Spaceborne)

Conveners: Junhwa Chi, Evgeny Zarov, Linda Fernandez, Julia Boike

Emails: jhchi@kopri.re.kr; zarov.evgen@yandex.ru; lmfernandez@vcu.edu; julia.boike@awi.de

Chairs: TBD				
Timeslot	Abstract No	Presenting Author	Email	Title
25/5; 9:00	13	Wojciech Miloch	w.j.miloch@fys.uio.no	ASTRA – The Arctic Space Research TRaining network; First Results from the International Mobility Project within Ionospheric Studies in the Polar Regions.
25/5; 9:15	87	Heikki Lihavainen	heikki.lihavainen@sios-svalbard.org	The State of Environmental Science in Svalbard Report – a Tool for Integrating and Optimising Earth System Science Observations in Svalbard
25/5; 9:30	206	Luca Pozzoli	luca.pozzoli@ec.europa.eu	Societal benefits of Arctic observing systems
25/5; 9:45	116	Andrey Abramov	andreyabramov@gmail.com	20 years of permafrost monitoring at the Lena-Indigirka-Kolyma area
25/5; 10:00	192	leonid yurganov	leonid.yurganov@gmail.com	Atmospheric methane over the Russian Arctic seas observed by satellites and in situ
25/5; 10:15	236	dfauteux@nature.ca	Dominique Fauteux	Evaluation of several methods to monitor lemming abundance: simple can also be good

Session Code: B1

Session Title: Remote Sensing of the Cryosphere: Permafrost, Glaciers, Sea Ice, and More

Conveners: Helena Bergstedt, Thorsteinn Thorsteinsson, Har Amrit Singh Sandhu, Annett Bartsch

Emails: helena.bergstedt@sbg.ac.at; thor@vedur.is; haramritsingh.pec@gmail.com; annett.bartsch@polarresearch.at

Chairs: TBD				
Timeslot	Abstract No	Presenting Author	Email	Title
25/5; 14:00	28	Gunnar Spreen	gunnar.spreen@uni-bremen.de	Arctic Sea Ice Volume Export through Fram Strait from 1990 to 2014
25/5; 14:15	60	Alice Bradley	alice.c.bradley@williams.edu	Community sea ice records as a validation tool for coastal remote sensing
25/5; 14:30	142	Anna Timofeeva	timofeeva.anna@gmail.com	Ice cover variability in the Arctic seas of the Northern Sea route in modern climatic conditions and prospects of navigation
25/5; 14:45	211	Andreas Preußner	preusser@uni-trier.de	Comparison of thin-ice thickness distributions from MODIS and AMSR-E to infer wintertime sea-ice production in Arctic polynyas
25/5; 15:00	64	Paul Tepes	paul.tepes@ed.ac.uk	Mass balance of Arctic ice caps from CryoSat-2 swath altimetry
25/5; 15:15	166	Helena Bergstedt	helena.bergstedt@sbg.ac.at	Microwave remote sensing for surface state retrieval in complex cold regions

Session Code: B2

Session Title: Environmental Pollution in the Arctic: monitoring, pollutant pathways and impact of external sources

Conveners: Sergey Gromov, Veronika Ginzburg, Elena Kruchina

Emails: Gromov.igce@gmail.com; veronika.ginzburg@gmail.com; sergey.gromov@igce.ru; kruchinael@mail.ru

Chairs: TBD				
Timeslot	Abstract No	Presenting Author	Email	Title
25/5; 9:00	111	Sophie Haslett	sophie.haslett@aces.su.se	The chemical composition of aerosols and cloud residuals at Zeppelin Observatory during the annual cycle 2019-2020
25/5; 9:15	123	Andrey Skorokhod	skorokhod@ifaran.ru	Ship-borne measurements of atmospheric composition over the Arctic seas in 2015-2018
25/5; 9:30	239	Elena Semenets	elena573s@yandex.ru	Chemical Composition of Russian Arctic Precipitation in 2007–2015
25/5; 9:45	26	Veronika Ginzburg	veronika.ginzburg@gmail.com	Atmospheric transport of black carbon from simulated forest fires of Russian boreal forest to Arctic ice
25/5; 10:00	238	M.A. Zapevalov	zapevalow@mail.ru	Global atmospheric transport of POPs to the Russian Arctic
25/5; 10:15	175	Guangshui Na	gsna@nmemc.org.cn	Distribution characteristics and indicator significance of Dechloranes in multi-matrices at Ny-Ålesund in the Arctic

Session Code: B3

Session Title: Long-Term Changes in Arctic Social-Ecological Systems

Conveners: Andrey Petrov, Stanislav Ksenofontov

Emails: andrey.petrov@uni.edu; stanislav.ksenofontov@geo.uzh.ch

Chairs: TBD				
Timeslot	Abstract No	Presenting Author	Email	Title
24/5; 14:00	109	Mikhail Kozhin	mnk_umba@mail.ru	Alien flora of Russian Lapland: assessing the impact caused by the human occupation
24/5; 14:15	16	Elena Shestakova	lenny.marlya.spb@gmail.com	Assessment of the large river basins in the Russian Arctic as a socio-ecological system
24/5; 14:30	131	Stanislav Ksenofontov	sksesta@gmail.com	"No fish, no nimat": Social-ecological systems of Arctic Yakutia in the context of global change
24/5; 14:45	202	Ranjan Datta	ranjan.datta@usask.ca	Food insecurity in Arctic Indigenous communities experiencing rapid climate change: Toward a framework for stakeholder-based evaluation of alternative food security and mitigation strategies.
24/5; 15:00	204	Elizaveta Ristroph	ebristroph@gmail.com	Climate change, along with social and economic change related to colonization and development, greatly affect the indigenous people of Alaska.
24/5; 15:15	241	Megan Sheremata	megan.sheremata@utoronto.ca	Inuit knowledge of Indicators of Salinity Change in eastern Hudson Bay

Session Code: B4

Session Title: T-MOSAIc: Arctic Connections

Conveners: Warwick F. Vincent, João Canario & Diogo Folhas

Emails: Warwick.Vincent@bio.ulaval.ca; joao.canario@tecnico.ulisboa.pt; diogo.folhas@tecnico.ulisboa.pt

Chairs: TBD				
Timeslot	Abstract No	Presenting Author	Email	Title
25/5; 14:00	272	João Canario	joao.canario@tecnico.ulisboa.pt	T-MOSAIc and Arctic connections: From Action Groups to action
25/5; 14:15	269	Torben R. Christensen	torben.christensen@bios.au.dk	High Arctic Greenland: the Zackenberg/Daneborg and Villum stations as a GEM contribution to T-MOSAIc
25/5; 14:30	86	Clay Prater	m.c.prater@lboro.ac.uk	Exploring the effects of glacially-derived dust on lake ecosystems in southwestern Greenland
25/5; 14:45	54	Kristina Likhacheva	likhacheva.kristina@gmail.com	Indigenous people in the context of global change: conflicts around oil and gas exploitation in the Russian Arctic
25/5; 15:00	183	Svetlana Badina	bad412@yandex.ru	The vulnerability of Russian Arctic society and economy in permafrost degradation areas - current state and prospects for change
25/5; 15:15	273	Skip Walker	dawalker@alaska.edu	Rapid Arctic transitions: RATIC – T-MOSAIc connections and opportunities

Session Code: C1**Session Title:** Arctic Social Development: Urban and rural population in a changing climate**Conveners:** Nadezhda Kharlampieva, J. Otto Habeck, Alevtina Evgrafova, Nathan Reigner**Emails:** n.kharlampieva@spbu.ru; otto.habeck@uni-hamburg.de; alevtina.evgrafova@gmail.com; Nathan@RecreationTourismScience.com

Chairs: TBD				
Timeslot	Abstract No	Presenting Author	Email	Title
25/5; 9:00	143	Nikolay Shiklomanov	shiklom@gwu.edu	Impacts of Permafrost Warming and Degradation on Rural and Urban Communities: Examples from Alaskan and Russian Arctic.
25/5; 9:15	44	Nadezhda Kharlampieva	nkhar2014@gmail.com	The Factors Influencing the Change in the Economic Behaviour of the Small in Numbers Northern Peoples Living in the Arctic Zone of the Russian Federation
25/5; 9:30	104	Vera Lobova	va-lobova@yandex.ru	Social determinants of psychological well-being of the Nenets people in Yamal
25/5; 9:45	15	Dennis Zuev	tungus66@gmail.com	Politics of access and infrastructure in the circumpolar North: the case of small-scale aviation
25/5; 10:00	178	Natalia Koroleva	flora012011@yandex.ru	Tall-herb Floodplain Meadows and Grasslands of the Arctic as a Nature and Culture Heritage (Murmansk Region, Russia)
25/5; 10:15	Panel Discussion			

Chairs: TBD				
Timeslot	Abstract No	Presenting Author	Email	Title
25/5; 14:00	42	Nathan Reigner	Nathan@recreationtourismscience.com	Scoping the intersections of the emerging Arctic tourism industry on circumpolar Arctic communities and environments
25/5; 14:15	158	Yulia Zaika	yzaika@inbox.ru	Shrinking cities in the Arctic: case study of Kirovsk and Apatity, Murmansk region
25/5; 14:30	227	Eda Ayaydin	edaayaydin@gmail.com	Development of Lapland by Tourism and Indigenous Culture
25/5; 14:45	235	Lawrence Hamilton	Lawrence.Hamilton@unh.edu	Demographic Contrasts and Change in the Inuit Arctic
25/5; 15:00	0	Daria Mishina	d.o.mishina@gmail.com	Arctic Justics
25/5; 15:15	Panel Discussion			

Session Code: C2**Session Title:** Industrial Development of the Arctic: challenges, impacts, infrastructure, benefit sharing, and perspectives**Conveners:** Natalia Loukacheva, Violetta Gassiy, Jen Jones, Qingchao Xu, Masanori Goto**Emails:** Natalia.Loukacheva@unbc.ca; vgassiy@mail.ru; jjones14@uoguelph.ca; Qingchao.Xu@tufts.edu; goto2000z@hotmail.com

Chairs: TBD				
Timeslot	Abstract No	Presenting Author	Email	Title
24/5; 14:00	215	Vilena Valeeva	vilena.valeeva@iass-potsdam.de	Uncertain futures in the Arctic: Strategic options for Yamal business actors
24/5; 14:15	121	Magnus de Witt	magnusw@ru.is	The current status of electricity generation in the Arctic and the impacts of introducing renewables
24/5; 14:30	69	Andrian Vlakhov	avlakhov@gmail.com	Post-industrial development of Russian mining towns at Svalbard: a community study
24/5; 14:45	3	Gertrude Saxinger	gertrude.saxinger@univie.ac.at	In limbo between state and corporate responsibility: Transport infrastructure in the oil village Verkhnemarkovo, Irkutskaya Oblast in Russia
24/5; 15:00	221	Violetta Gassiy	vgassiy@mail.ru	Social partnership of business and indigenous peoples in the Arctic industrial
24/5; 15:15	214	Shinichiro Tabata	shin@slav.hokudai.ac.jp	Flow of Financial Resources between the Federal Budget and the Arctic Regions in Russia
Chairs: TBD				
Timeslot	Abstract No	Presenting Author	Email	Title
25/5; 9:00	126	Jen Jones	jjones14@uoguelph.ca	"It depends on what you refer to as 'on the land'": How contemporary governance mechanisms used to manage resource extraction may further dispossess Indigenous peoples of land, culture, identity, and health and well-being
25/5; 9:15	229	Ekaterina Malitskaya	ekaterina.malitskaya@gmail.com	Research Proposal "Sustainable development of arctic cities"
25/5; 9:30	84	Inga Nikulkina	inga123456@yandex.ru	Mechanisms for regulating the socio-economic development of the Russian Arctic from the standpoint of strengthening national interests
25/5; 9:45	148	Minori Takahashi	minoritakahashi@slav.hokudai.ac.jp	The Politics of Sustainability Surrounding the Development of Non-living Resources in Contemporary Greenland
25/5; 10:00	243	Irina Kaznina	i.kaznina@narfu.ru	Extractive industries & indigenous peoples' collective rights in Russia
25/5; 10:15	140	Nikita Kaplin	kaplinik@bk.ru	Interaction between indigenous communities and extracting companies in Evenkia district of Krasnoyarsk Kray

Session Code: C3**Session Title:** Humans, Ecosystems, Geopolitics, and Economic Interests in the Arctic: Health, Education, Culture, Security Issues, and Collaboration**Conveners:** Megan Sheremata, Victoria Buschman, Arja Rautio, Andrian Vlachov, Ranjan Datta**Emails:** megan.sheremata@utoronto.ca; vbuschmn@uw.edu; Arja.Rautio@oulu.fi; avlachov@gmail.com; ranjan.datta@usask.ca**May 24 Afternoon Session Subtheme: Indigenous peoples -- Chair: TBD**

Timeslot	Abstract No	Presenting Author	Email	Title
24/5; 14:00	107	Kira Alekseeva	alekseeva.kira@mail.ru	The Human in the Arctic
24/5; 14:15	57	Nadezhda Ligaeva	naligaeva@mail.ru	Integration project «Modern educational geographical environment of the Arctic»
24/5; 14:30	253	Maksim Zadorin	m.zadorin@narfu.ru	Governing principles of collaboration between regional state authorities and indigenous peoples of Arkhangelsk Governorate in XIX - beginning of XX centuries (based on archive materials)
24/5; 14:45	255	Nadezhda Vorobyeva	nadejdav0@gmail.com	Folate deficiency among the Nenets of the Arctic region of Russia
24/5; 15:00	208	Kennedy Jensen	kennedy.e.jensen.18@dartmouth.edu	Fulbright Arctic Initiative Exploring Multidisciplinary Collaborations for Community Wellness Within Circumpolar Regions
24/5; 15:15	63	Amina Schartup	amschart@nsf.gov	Designing Ethical Research Guidelines in the 21st Century

May 25 Morning Session Subtheme: Policy -- Chair: TBD

Timeslot	Abstract No	Presenting Author	Email	Title
25/5; 9:00	250	Irina Ershova	i.ershova@narfu.ru	Development of the legal model of the international and technical collaboration in the Arctic
25/5; 9:15	251	Ivan Saveliev	i.savelev@narfu.ru; ivan_saveliev@mail.ru	Role of international organizations in legal regulation of scientific cooperation in the Arctic
25/5; 9:30	144	Eduard Galimullin	edmsk11@gmail.com	Russia and United States: opportunities and prospects for cooperation in the Arctic
25/5; 9:45	117	Hyoung Chul Shin	hcshin@kopri.re.kr	A story of two agreements; a new vehicle for Arctic cooperation
25/5; 10:00	187	Hyunkyo SEO	shkshk@kopri.re.kr	Analysis on Korea's past, current and future Arctic policies
25/5; 10:15	169	Sofia Prokopova	sofiaprokopova@gmail.com	Work in the Arctic: Developing a human-friendly FIFO camp (with reference to Russian oil and gas industry)

Session Code: C3 (cont)

Session Title: Humans, Ecosystems, Geopolitics, and Economic Interests in the Arctic: Health, Education, Culture, Security Issues, and Collaboration

May 25 Afternoon Session Subtheme: Health -- Chair: TBD

Timeslot	Abstract No	Presenting Author	Email	Title
25/5; 14:00	248	Galina Degteva	gala7d@mail.ru	Changing climate and vulnerability of the population of the Russian Arctic zone
25/5; 14:15	245	Alexander Kudryavtsev	ispha09@gmail.com	Differences in cardiovascular health in the Arctic and adjacent areas: Early findings of the Heart to Heart comparative studies in Russia and Norway
25/5; 14:30	261	Yury Sumarokov	sumarokovjua@nsmu.ru	Suicide mortality in the Russian Arctic
25/5; 14:45	258	Tatiana Unguryanu	unguryanu_tn@mail.ru	The Shenkursk injury registry – a tool for evidence-based injury prevention and building safe environments in the Russian North
25/5; 15:00	249	Galina Kostrova	kostrovagn@yandex.ru	Prevalence of Vitamin D deficiency in different age groups of the Arkhangelsk population, Northwestern Russia
25/5; 15:15	259	Valerii Chashchin	vchashchin@hse.ru	Climate-mediated environmental impact on human reproduction in the Arctic indigenous people

Session Code: D1

Session Title: Water in the Arctic: Sea Level, Hydrology, Oceans, and More

Conveners: Georgi Laukert, Alexander Shiklomanov, Maria Luneva, Lee Cooper

Emails: glaukert@geomar.de; alex.shiklomanov@unh.edu; mane1@noc.ac.uk; cooper@umces.edu

Chairs: TBD				
Timeslot	Abstract No	Presenting Author	Email	Title
25/5; 9:00	124	Alexander Shiklomanov	alex.shiklomanov@unh.edu	River flux to the Arctic Ocean: contemporary estimates, possible causes of change and future projections.
25/5; 9:15	149	Georgi Laukert	glaukert@geomar.de	Spatial and temporal variability in supply, transport and utilization of silicate in the Laptev Sea based on dissolved stable silicon isotopes
25/5; 9:30	72	Vasiliy Povazhnyi	povazhny@aari.ru	Primary production in Laptev and East Siberian Seas in summer 2018, measured by oxygen optode method.
25/5; 9:45	67	Maria Luneva	mane1@noc.ac.uk	Shelf processes modelling in the Arctic Ocean.
25/5; 10:00	83	Ekaterina Taldenkova	etaldenkova@mail.ru	Postglacial to Holocene sea-level history and environmental variability in the western Laptev Sea - evidence of trans-Arctic teleconnections
25/5; 10:15				Brief Introductions to the Posters

Session Code: E1

Session Title: Polar Meteorology, Climatology & Prediction

Conveners: Guðrún Nína Petersen, Kent Moore, Sophie Haslett, Thomas Spengler

Emails: gnp@vedur.is; gwk.moore@utoronto.ca; sophie.haslett@aces.su.se; thomas.spengler@uib.no

Chairs: TBD				
Timeslot	Abstract No	Presenting Author	Email	Title
24/5; 14:00	102	Thomas Jung	thomas.jung@awi.de	Advanced prediction in the Arctic and beyond: Half way into the APPLICATE project
24/5; 14:15	146	Genrikh Alekseev	alexgv@aari.ru	Influence of SST in low latitudes on change and predictability of the Arctic climate
24/5; 14:30	164	Thomas Spengler	thomas.spengler@uib.no	Atmosphere-Ocean-Ice Interactions during Cold Air Outbreaks in a Coupled Mixed Layer Model
24/5; 14:45	32	Julie Pasquier	julie.pasquier@env.ethz.ch	Comparison of Microphysical Processes in Alpine and Arctic Mixed-Phase Clouds
24/5; 15:00	226	Gillian Young	G.Young1@leeds.ac.uk	Linking Clouds, Ocean, and Sea Ice in the Arctic: the MOCCHA/ACAS Field Campaign 2018
24/5; 15:15	193	Kent Moore	gwk.moore@utoronto.ca	The early collapse of the 2017 Lincoln Sea ice arch in response to orographic wind forcing along Nares Strait

Chairs: TBD				
Timeslot	Abstract No	Presenting Author	Email	Title
25/5; 14:00	216	Marta Wenta	marta.wenta@phdstud.ug.edu.pl	The influence of sea ice floe size distribution on the area averaged values of surface moisture and heat fluxes
25/5; 14:15	112	Natalia Glok	glok.natasha@mail.ru	Predictability and forecast of seasonal and interannual sea ice changes in the Barents Sea
25/5; 14:30	91	Uliana Prokhorova	uliana@niersc.spb.ru	Comparing of atmospheric circulation features on the warming period in the 1930-th and modern warming period in the Barents sea region.
25/5; 14:45	14	Muyin Wang	muyin@uw.edu	How a different Arctic do we see from CMIP6 models
25/5; 15:00	210	Günther Heinemann	heinemann@uni-trier.de	Investigations of the Arctic boundary layer in the Laptev Sea area using surface-based remote sensing and numerical model simulations
25/5; 15:15	162	Uliana Prokhorova	uliana@niersc.spb.ru	Effect from the polynyas in the Siberian Arctic seas to atmospheric transport

Session Code: F1

Session Title: Climate Change and its Impacts in the Arctic

Conveners: Michelle Mack, Muyin Wang, Piotr Owczarek, Dennis Zuev, Kabir Rasouli, Pavla Dagsson-Waldhauserova

Emails: Michelle.mack@nau.edu; muyin.wang@noaa.gov; piotr.owczarek@uwr.edu.pl; tungus66@gmail.com; kabir.rasouli@ucalgary.ca; pavla@lbhi.is

Chairs: TBD				
Timeslot	Abstract No	Presenting Author	Email	Title
24/5; 14:00	6	Ulrike Herzschuh	ulrike.herzschuh@awi.de	Migration rates of the arctic treeline in Siberia under warming climate
24/5; 14:15	163	Hanna Lee	hanna.lee@norceresearch.no	Soil profile and surface fluxes of CO ₂ & CH ₄ at a permafrost thaw and local hydrological gradient in northern Norway
24/5; 14:30	264	Amy Breen	albreen@alaska.edu	Arctic shrub dynamics observation-model comparison
24/5; 14:45	100	Olga Gavrichkova	olga.gavrichkova@cnr.it	Where assimilated carbon goes in the Arctic tundra? Drivers and allocation.
24/5; 15:00	29	Kabir Rasouli	kabir.rasouli@ucalgary.ca	Impacts of Climate, Vegetation, and Soil Changes on Hydrological Processes in Wolf Creek Research Basin, Yukon Territory, Canada
24/5; 15:15	197	Elena Plekhanova	elena.plekhanova@uzh.ch	Vegetation changes under extreme precipitation treatments in tundra

Chairs: TBD				
Timeslot	Abstract No	Presenting Author	Email	Title
25/5; 9:00	33	Diana Soloveva	ultimuscaurus@gmail.com	The Postglacial record of environmental history from Spitsbergen island west coast
25/5; 9:15	51	Yevgeny Aksenov	yka@noc.ac.uk	Advective Pathways of nutrients in the Arctic: the role of the ocean circulation for marine biogeochemistry and ecosystems
25/5; 9:30	119	Eiji Wantanabe	ejnabe@jamstec.go.jp	Multi-model intercomparison of ice-algal productivity in the Arctic Ocean on seasonal, interannual, and decadal timescales

25/5; 9:45	274	Enooyaq Sudlovenick	esudlovenick@upei.ca	Inuit Qaujimagatuqangit and serological survey on harvested Ringed Seals in Iqaluit, NU
25/5; 10:00	59	George Matyshak	matyshak@gmail.com	Warming effect on tundra ecosystems: first results of short and long-term experiments
25/5; 10:15	101	Paulina Wietrzyk-Pełka	paulina.wietrzyk@doctoral.uj.edu.pl	Primary succession and changes of soil properties in forelands of Svalbard glacier

Session Code: F1 (cont)

Session Title: Climate Change and its Impacts in the Arctic

Chairs: TBD				
Timeslot	Abstract No	Presenting Author	Email	Title
25/5; 14:00	135	Hong Guo	hongguo@uark.edu	The Spatiotemporal Variations of Active Layer Thickness in the Northern Hemisphere during 1901-2016
25/5; 14:15	138	Rebecca Hewitt	rebecca.hewitt@nau.edu	Contributions of belowground plant traits to deep nitrogen acquisition in warming permafrost soils
25/5; 14:30	71	Marie Sabacka	sabacka.marie@gmail.com	Ecology and phylogeography of microorganisms and small animals occupying cryoconite holes
25/5; 14:45	151	Elena Belonovskaya	belena@igras.ru	Natural and Anthropogenic Trends of the Russian Arctic Biota
25/5; 15:00	103	Miriam Hansen	mhansen@ecology.uni-kiel.de	Spatial Variation in Distributional Patterns of Arctic Benthic Biodiversity
25/5; 15:15	56	Leonid Golubyatnikov	golub@ifaran.ru	Western Siberian tundra lakes: current and future methane emissions

Session Code: G1

Session Title: UK-Russia Arctic Scientific Cooperation: Towards a Better Understanding of the Changing Arctic

Conveners: Henry Burgess, Marina Kalinina, Tatiana Iakovleva

Emails: henry.burgess@bas.ac.uk; m.r.kalinina@narfu.ru; tatiana.iakovleva@fco.gov.uk

Chairs: TBD				
Timeslot	Abstract No	Presenting Author	Email	Title
24/5; 14:00	113	Mary Edwards	m.e.edwards@soton.ac.uk	Long-term climate change and recent human impact across Northern Eurasia: Expanding the palaeo record from Siberia and the Russian Far East
24/5; 14:15	268	Marina Kalinina	m.r.kalinina@narfu.ru	Networking tools for UK-Russia Arctic research collaboration
24/5; 14:30	50	Rachael Turton	rht34@cam.ac.uk	A quarter-century of remote sensing of subarctic vegetation in northern Russia
24/5; 14:45	40	Olga Tutubalina	olgatut@gmail.com	Dynamics of Russian northern forests since 2000 in the context of climate change
24/5; 15:00	157	Yulia Zaika	yzaika@inbox.ru	Science diplomacy of different scales: international, bilateral, regional
24/5; 15:15	267	Saule Akhmetkaliyeva	saule.akhmetkaliyeva@stu.mmu.ac.uk	The UK Polar Network and APECS Russia: international collaboration for the next generation of polar scientists

Poster Session
25 May, 16:00

Poster No.	Abstract No.	Presenting Author	Email	Session	Title
TBD	10	Wojciech Miloch	w.j.miloch@fys.uio.no	A1	Ionospheric plasma irregularities in the polar regions studied characterized with the Swarm satellites
TBD	22	Nikita Demidov	nikdemidov@mail.ru	A1	The results of monitoring and research on permafrost in the vicinity of the settlement of Barentsburg (Spitsbergen) in 2016-2018
TBD	24	Piotr Owczarek	piotr.owczarek@uwr.edu.pl	A1	Natural and anthropogenic factors influencing thufur degradation in northern Iceland – a dendrogeomorphology approach
TBD	36	Alexander Vorontsov	vorv@meteo.ru	A1	Integrated Arctic Observation System. Russian segment
TBD	61	Evgeny Zarov	zarov.evgen@yandex.ru	A1	Vegetation description ordination and mapping
TBD	92	Vadim Rakitin	vadim@ifaran.ru	A1	Dynamics in trends of carbon monoxide and methane column over Northern Eurasia
TBD	98	Helén Johanne Andersen	hja@rcn.no	A1	Svalbard Science Forum
TBD	134	Alexander Vorontsov	vorv@meteo.ru	A1	Support of climate research through the state information system ESIMO
TBD	155	Vladimir Kaftan	kaftan@geod.ru;v.kaftan@gcrs.ru	A1	Fennoscandian uplift study as an example of Russian-Finnish cooperation in Arctic geodesy (Advisory)
TBD	209	Annett Bartsch	annett.bartsch@bgeos.com	A1	Vegetation height retrieval from Sentinel-1 and 2 data in tundra regions
TBD	218	wenfang cheng	chengwenfang@pric.org.cn	A1	Polar Icebreaking Navigation System Based on Machine Learning
TBD	-	Skip Walker	dawalker@alaska.edu	A1	Circumpolar arctic vegetation classification, mapping, and transects: a framework for Arctic change analysis

TBD	-	Leonid Yurganov	leonid.yurganov@gmail.com	A1	Arctic Ocean as a significant source of atmospheric methane: year-round satellite data
TBD	27	Jilda Caccavo	ergo@jildacaccavo.com	B1	The benefits to Arctic science of including Early Career Scientists as peer-reviewers
TBD	55	Mariusz Grabiec	mariusz.grabiec@us.edu.pl	B1	Glacier geometry changes derived from aerial and satellite images over southern Spitsbergen
TBD	78	Thorsteinn Thorsteinsson	thor@vedur.is	B1	A new WMO Guide for the measurement of cryospheric variables: Status of the glacier chapter
TBD	105	Barbara Barzycka	bbarzycka@us.edu.pl	B1	Hansbreen's facies, their changes and a relation to mass balance over the last decade (2008-2018), Svalbard
TBD	150	Julia Boike	julia.boike@awi.de	B1	A 16-year record (2002–2017) of permafrost, active layer, and meteorological conditions at the Samoylov Island Arctic permafrost research site, Lena River Delta, northern Siberia: an opportunity to validate remote sensing data and land surface, snow, and permafrost models
TBD	165	Helena Bergstedt	helena.bergstedt@sbg.ac.at	B1	The Permafrost Young Researchers Network - The Next Generation of Permafrost ECRs
TBD	177	Hyangsun Han	hyangsun@kopri.re.kr	B1	Summer sea ice concentration in the Chukchi Sea derived from AMSR2 and NWP data with machine learning approach
TBD	185	Chang-Uk Hyun	chyun@kopri.re.kr	B1	High-resolution arctic sea ice image acquisition and mosaicking using helicopter-borne sensors
TBD	195	Junhwa Chi	jhchi@kopri.re.kr	B1	Retrieval of pan-Arctic sea ice concentration using deep learning

TBD	198	Ireneusz Sobota	irso@umk.pl	B1	The role of Rain-On-Snow (ROS) events in snow accumulation changes on glaciers in the High Arctic, Svalbard
TBD	219	Har Amrit Singh Sandhu	haramritsingh.pec@gmail.com	B1	GLACIER VARIATIONS IN BHAGIRATHI BASIN USING REMOTE SENSING
TBD	43	Tatiana Sorokina	t.sorokina@narfu.ru	B2	ENVIRONMENTAL HARM AND HARM TO HUMAN HEALTH CAUSED BY ENVIRONMENTAL POLLUTION: OVERVIEW OF RUSSIAN REGULATION OF THE REMEDIATION PROCEDURES
TBD	45	Kathy Law	Kathy.law@latmos.ipsl.fr	B2	Northern Urbanization under global- and climate change: challenges and strategies with respect to weather and pollution for sustainable development
TBD	66	Ekaterina Zhadanovskaya	zhadanovskaya@gmail.com	B2	High pollution events in surface waters of Russian Arctic: State-of-the-Art and Multiyear Dynamics
TBD	85	Clay Prater	m.c.prater@lboro.ac.uk	B2	Eurasian dust in the Arctic: potential sources and distribution
TBD	99	Adam Smith	absmith@whoi.edu	B2	Soundscape dynamics at breeding sites of the Atlantic puffin (<i>Fratercula arctica</i>) in northern Iceland
TBD	237	E.N. Popova	en_popova@mail.ru	B2	Environmental conditions bioremediation using Scots pine stands of White sea coast
TBD	240	Elena Semenets	elena573s@yandex.ru	B2	Chemical composition of snow cover and precipitation on the Bolshevik island
TBD	77	Pavla Dagsson-Waldhauserova	pavla@lbhi.is	B3	The role of high-latitude dust and sand in the Arctic environments
TBD	196	Tayana Arakchaa	tuvataiga20@gmail.com	B3	The Effects of Climate Change on Reindeer Herding and Hunting among the Tozhu in the Taiga Zone
TBD	133	Masanori Goto	goto2000z@hotmail.com	C1	Rearranging opposition in Sakha stock-raising

TBD	137	Тамара Немчинова	t.nemchinova@spbu.ru	C1	THE RUSSIAN MARKET OF "THE ARCTIC" EDUCATION IN THE ARCTIC SCIENTIFICAL AND EDUCATIONAL AREA
TBD	152	Alexander Suleymanov	alexas1306@gmail.com	C1	"Cold Resources" in the life support system of rural communities of Yakutia: evolution of utilization practices and challenges of modern times
TBD	176	Svetlana Kutsenko	kutsenko.arhsc@mail.ru	C1	Features and prospects for the development of low-carbon (green) economy of The Russian Arctic
TBD	191	Olga Popova	popova_olya@mail.ru	C1	ЗАЩИТА ПРАВ ЧЕЛОВЕКА В АРКТИЧЕСКИХ РЕГИОНАХ В УСЛОВИЯХ ИЗМЕНЕНИЯ КЛИМАТА
TBD	47	Yevgeny Aksenov	yka@noc.ac.uk	C2	Arctic shipping predictions and impact assessments
TBD	80	Eugene Borovichev	ea_borovichev@mail.ru	C2	Nature tourism as a perspective activity on the special protected areas in Murmansk part of Fennoscandian Green Belt
TBD	147	Umidakhon Gapurova	gapurovaumidakhon@gmail.com	C2	Environmental impacts of economic development in the Arctic. The case of Russian Federation
TBD	188	Anastasia Myadzelets	anastasia@irigs.irk.ru	C2	Role of innovations and geographical conditions in industrial and social development of Russian northern resource regions
TBD	242	Alexey Korshunov	a.korshunov@narfu.ru	C2	Frost Heave Phenomenon as a Challenge for Arctic Engineers
TBD	244	Liudmila Siluanova	l.siluanova@narfu.ru	C2	Large scale investment projects as the answer on socio-economic challenges in the Arctic
TBD	115	Jihoon Jeong	jj@kopri.re.kr	C3	Evolving Patterns of Intergovernmental Cooperation in the Arctic
TBD	118	Xuefeng LI	chenzai321@gmail.com	C3	Marine Spatial Planning in the Arctic: Implementation of Chinese Marine Functional Zoning

TBD	179	Alena Nikanorova	nikanorova.alena@mail.ru	C3	Analysis of polymorphism of SNP-markers of COX2 and TRPV1 genes, coding cold and thermal receptors of human skin, in the Yakut population
TBD	223	Jiangtian Xu	xujiangtian@icloud.com	C3	Who Can Be the New Regime Maker in the Arctic? Game Theory Analysis on the EU-China Leadership Battle of International Regime Making in the Arctic between EU's Liberalism or China's Regional Multilateralism?
TBD	225	Linda Fernandez	lmfernandez@vcu.edu	C3	Walking a Tight Line: Management of a New Arctic Fishery In the Presence of Spatially Differentiated Ecological-Economic Externalities
TBD	246	Andrej Grijbovski	andrej.grijbovski@gmail.com	C3	Social inequalities in selected pregnancy outcome in the Murmansk region: a registry-based study of 52806 births
TBD	247	Elmer Topp-Jørgensen	jetj@bios.au.dk	C3	Support for scientists to better prepare and conduct fieldwork in the Arctic: The INTERACT Fieldwork Planning Handbook and Practical Field Guide
TBD	252	Konstantin Zaikov	k.zaikov@narfu.ru	C3	Scientific-Educational Space of the Russian Arctic: problems and perspectives
TBD	254	Nadezhda Vorobyeva	nadejdav0@gmail.com	C3	Use of IT-technologies in the work of the network of antithrombotic offices of the Arkhangelsk region
TBD	256	Nikolay Kondratov	n.kondratov@narfu.ru	C3	Sustainable development of the Russian Arctic as an interdisciplinary scientific task
TBD	257	Tatiana Sorokina	t.sorokina@narfu.ru	C3	Environmental harm and harm to human health caused by environmental pollution: overview of Russian regulation of the remediation procedures

TBD	260	Vitaly A. Postoev	ispha@nsmu.ru	C3	Changes in socio-demographic characteristics of becoming mothers from 2012 to 2016 in Arkhangelsk region: a registry-based study
TBD	262	Andrej Lebedev	andruleb@yandex.ru	C3	Atherosclerotic risk factors in school children of Arkhangelsk
TBD	-	Skip Walker	dawalker@alaska.edu	C3	Vegetation along the 1700-km Yamal Peninsula–Franz Josef Land Eurasia Arctic Transect: A synthesis
TBD	21	Sergey Lebedev	sergey_a_lebedev@mail.ru	D1	Analysis of annual sea level variation of Barents and White Seas by satellite altimetry data, results of hydrodynamic simulation and tide gauge stations data
TBD	31	Lee Cooper	cooper@umces.edu	D1	The Changing Oxygen Isotope Composition of the Bering Sea Halocline Provides an Independent Opportunity for Constraining an Increasing Freshwater Flux Through Bering Strait
TBD	38	Mikhail Makhotin	m-makhotin@mail.ru	D1	Extension of Pacific summer waters in the Arctic Ocean: results of field data and model calculations
TBD	68	Heidemarie Kassens	hkassens@geomar.de	D1	Research Icebreaker Akademik Tryoshnikov: New insights into the Changing Arctic Transpolar System in 2018
TBD	122	Jens Hoelemann	nkakhro@geomar.de	D1	The Laptev Sea Region of Freshwater Influence: Oceanography and Ecosystem implications
TBD	125	Shigeto Nishino	nishinos@jamstec.go.jp	D1	Biogeochemical Anatomy of a Cyclonic Warm-Core Eddy in the Arctic Ocean
TBD	154	Barbara Oleszczuk	oleszczuk@iopan.gda.pl	D1	Benthic fauna structure, biodiversity and productivity across depth gradients during spring in the Arctic Ocean

TBD	156	Anastasia Vyazilova	nev5199@gmail.com	D1	Impact of global warming on the conditions of formation of the Siberian rivers discharge
TBD	160	Maria Lund Paulsen	mlp@bios.au.dk	D1	A new ecological approach to study the biological uptake of terrestrial dissolved organic matter (DOM) and DOM-flocculates in coastal Arctic ecosystems
TBD	161	Monika Kędra	kedra@iopan.gda.pl	D1	Organic carbon budget of the in ice-covered Arctic Ocean during late spring
TBD	181	Alexey Golikov	golikov_ksu@mail.ru	D1	Food spectrum and trophic position of Arctic cephalopod <i>Rossia palpebrosa</i> is similar to the most commercially exploited Arctic shrimp species <i>Pandalus borealis</i> : overlapping ecological niche and competition?
TBD	203	Waldemar Walczowski	walczows@iopan.pl	D1	An increasing role of Argo floats in Arctic oceanographic observations
TBD	270	Ali Torabi Haghighi	ali.torabihaghighi@oulu.fi	D1	River regime alteration in major Arctic rivers
TBD	17	Vladimir Platonov	vplatonov86@gmail.com	E1	Regional reanalysis for Russian Arctic: methodology and first verification results
TBD	19	Pavel Konstantinov	kostadini@mail.ru	E1	UHIARC network as investigation tool of boundary layer inversions in Eastern Arctic
TBD	65	Vladimir Platonov	vplatonov86@gmai.com	E1	Modelling of extreme hydrometeorological phenomena over the Kara Sea and Arctic coast
TBD	70	Alexander Makshtas	maksh@aari.ru	E1	Results and prospects of hydrometeorological studies at the Russian Arctic observatories
TBD	194	Natalia Pilguj	natalia.pilguj@uwr.edu.pl	E1	Temporal changes in wind conditions at Svalbard for the years 1986–2015
TBD	4	Maria Korneykova	korneykova.maria@mail.ru	F1	Global warming and opportunistic microfungi in soils
TBD	8	Vera Vinogradova	vvinog@yandex.ru	F1	Climate change and the human life conditions in the Northern and Arctic areas of the Russian Federation

TBD	18	Kalevi Mursula	kalevi.mursula@oulu.fi	F1	The Northern Polar Vortex Affected by Particle Precipitation, QBO Phase and Sudden Stratospheric Warmings
TBD	34	Zagidullina Asiia	azagidullina@gmail.com	F1	Natural disturbance regimes in pristine forest landscapes in eastern part of Barents region under climate change
TBD	39	Mirseid Akperov	aseid@ifaran.ru	F1	Cyclone activity in the Arctic: present-day climatology and projected changes from reanalyses and regional climate models
TBD	41	Scott Zolkos	zolkos@ualberta.ca	F1	Fluvial Inorganic Carbon Cycling in a Glaciated Thermokarst Landscape
TBD	76	Alexandra Bernardova	alex.bernardova@gmail.com	F1	Rapid response to environmental emergency alerts. An INTERACT initiative.
TBD	110	Ivan Alekseev	alekseevivan95@gmail.com	F1	Biodegradability of soil organic matter in North-Western Siberia
TBD	120	Helge Tangen	helget@met.no	F1	Arctic Regional Climate Centre Network (ArcRCC-N)
TBD	139	Anna-Maria Virkkala	anna-maria.virkkala@helsinki.fi	F1	The potential of Sentinel-2 to predict CO2 fluxes in the Arctic
TBD	167	Dmitrii Sergeev	sergeevdo@gmail.com	F1	Permafrost State and Permafrost Dynamics: Key Indicators for Infrastructure Stability
TBD	200	Ranjan Datta	ranjan.datta@usask.ca	F1	Calls to Action: Climate Change and Drinking Water Resiliency in Arctic.
TBD	207	Luca Pozzoli	luca.pozzoli@ec.europa.eu	F1	Non-linear impacts of future anthropogenic aerosol emissions on Arctic warming
TBD	212	Youcheng Bai	ycbai@sio.org.cn	F1	Seasonal and spatial variability of sea ice and phytoplankton biomarker flux in the Chukchi Sea (western Arctic Ocean)
TBD	213	Xiao-Yi Yang	xyyang@xmu.edu.cn	F1	Dynamical link between the Barents-Kara Sea ice and the Arctic Oscillation

TBD	224	Jing Huang	huangjing@pric.org.cn	F1	Another Platform to Introduce Advances in Polar Scientific Research—Introduction of the Journal Advances in Polar Science and Call for Papers
TBD	234	Mark McKay	mmckay@islander.tamucc.edu	F1	Foraminiferal assemblages and Stable Isotope analysis as indicators of Past Climate Change in Bays and Estuaries
TBD	263	Alexey Kokorin	akokorin@wwf.ru	F1	Analysis of Projections of Temperature Anomalies for Central and Eastern Russian Arctic Regions Aimed at Nature Protection Adaptation Measures
TBD	265	Thomas Diehl	Thomas.Diehl@ec.europa.eu	F1	Assessment of the Present and Future Impact of Arctic Warming on the Carbon Cycle and Permafrost in the Arctic Boreal Zone
TBD	266	Viktor Maleev	CRIE@pcr.ru	F1	Climate change and infectious diseases
TBD	271	Geir Gotaas	geir.gotaas@npolar.no	F1	International collaboration at Ny-Ålesund Research Station in Svalbard, Norway
TBD	-	Delphine Mathias	mathias.somme@orange.fr	F1	Arctic and Antarctic soundscapes : contributors and acoustic levels