

SESSION "Pan-Eurasian Experiment (PEEX) – A Research Initiative Meeting

«The Grand Challenges Of The Changing Environment Of The Northern Pan-Eurasian Arctic-Boreal Areas»

Wednesday, 19.08.2015

Chairs of the session: Sergey Dobrolyubov (dobroscience@yandex.ru), Natalia Chubarova (chubarova@geogr.msu.ru)

09:30-11:00 Session 1

	Project SLICFONIA: complicated study of short-lived climate forcers in the Arctic	Andrey Skorokhod	A.M.Obukhov Institute of Atmospheric Physics RAS	skorokhod@ifaran.ru
	A large-scale assessment of climatic and ecological impacts of tropospheric sulphate aerosols on the terrestrial carbon cycle	Alexey V. Eliseev	A.M.Obukhov Institute of Atmospheric Physics RAS	eliseev@ifaran.ru
	Model assessment of global CO ₂ emissions into the atmosphere from crown, ground, and peat fires	Alexey V. Eliseev	A.M.Obukhov Institute of Atmospheric Physics RAS	eliseev@ifaran.ru
	Wildfire forest and peat aerosol emissions in PEEX regions	Olga Borisovna Popovicheva	Skobeltsyn Institute of Nuclear Physics Moscow State University	polga@mics.msu.su
	Paradox of the surface air cooling in response to the global warming: A role of the stably stratified PBL and free atmosphere temperature inversions	Igor Ezau	Nansen Environmental and Remote Sensing Centre	igor.ezau@nersc.no

14:00-15:30 Session 2

	Influence of coherent structures on the temporal variability of wind field and gas constituents in the troposphere	Igor Chunchuzov	Obukhov Institute of Atmospheric Physics	igor.chunchuzov@gmail.com
	Estimation of integral content of polluting gases in troposphere and their sources at Moscow Region	Alexander Borovski	A.M. Obukhov Institute of Atmospheric Physics RAS	alexander.n.borovski@gmail.com
	Sustainability of carbon fluxes between forest and bog ecosystems in southern taiga of European Russia	Juliya Kurbatova	IPPE	kurbatova.j@gmail.com
	Near-shore water mass structure and circulation in the south-eastern part of the Baltic Sea	Alexander Demidov	Lomonosov MSU	alik1@mail.ru

	16:00-17:30 Session 3			
	Ongoing increase of atmospheric convective activity in Northern Eurasia: observations, reanalyses and model simulations	Alexander Chernokulsky	A.M. Obukhov Institute of Atmospheric Physics	a.chernokulsky@ifaran.ru
	Implementation of SWAN model with COSMO-CLM wind forcing for the Barents Sea storm events (case study).	Vladimir Platonov	Lomonosov MSU	vplatonov86@gmail.com
	The influence of swell waves from the North Atlantic on the wave field in the Barents and White seas	Stanislav Myslenkov	Lomonosov MSU	stasocean@gmail.com
	The oxygen regime of shallow lake	Galina GAVRILENKO		

Thursday, 20.08.2015

Chairs of the session: Valery Bondur (vgbondur@aerocomos.info), Sergei Zilitinkevich (sergej.zilitinkevich@fmi.fi)

	12:00-13:30 Session 4			
	Pan-Eurasian Experiment (PEEX) Program - Grand Challenges in the Arctic-boreal context	Markku Tapio Kulmala	University of Helsinki	markku.kulmala@helsinki.fi
	Methods of satellite monitoring for the purpose of the Pan-Eurasian Experiment (PEEX)	Valeriy Bondur	ISR "AEROCOSMOS"	vgbondur@aerocomos.info
	Influence of natural and anthropogenic emissions of greenhouse and polluting gases on climate and ecosystem changes in Eurasia (Presentation of new PEEX labelled project)	Andrey Skorokhod	A.M.Obukhov Institute of Atmospheric Physics RAS	skorokhod@ifaran.ru

	14:30-16:00 Session 5			
	Pan-Eurasian Experiment (PEEX) research agenda - System understanding of the Arctic-boreal regions for scenarios and assessments of the the Northern Pan-Eurasian environments	Hanna Katriina Lappalainen	University of Helsinki	hanna.k.lappalainen@helsinki.fi

	Possibilities of space-borne monitoring of Northern Eurasia for climate change detection in the framework of the Pan-Eurasian Experiment (PEEX)	Elena Mityushina	ISR "AEROCOSMOS"	elenamityushina@gmail.com
	Studying emissions of trace gases and aerosols resulting from wildfires into the atmosphere of Northern Eurasia with satellites	Arutyunyan C.A.	ISR "AEROCOSMOS"	kristinkaaxtina@rambler.ru
	AEROSOL OPTICAL DEPTH RETRIEVAL OVER ARCTIC REGION USING SATELLITE DATA	Yong Xue	Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences	yx9@hotmail.com

16:30-18:00 Session 6

	Assessment of the Biospheric Contribution to Surface Atmospheric CO ₂ Concentrations over East Asia with a Regional Chemical Transport Model	Meigen Zhang	Institute of Atmospheric Physics, Chinese Academy of Sciences	mgzhang@mail.iap.ac.cn
	Cold CO ₂ emission from sub-boreal soils: current trends and effect of repeating freezing-thawing events	Irina Kurganova	Institute of Physicochemical and Biological Problems in Soil Sciences RAS	ikurg@mail.ru
	Observations and modeling of carbon fluxes from peatlands at Southern Taiga of Western Siberia	Egor Dyukarev	Institute of Monitoring of climatic and ecological systems	egor@imces.ru

Friday, 21.08.2015

Chairs of the session: Tuukka Petäjä (tuukka.petaja@helsinki.fi), Hanna Lappalainen (hanna.k.lappalainen@helsinki.fi)

9:30-11:00 Session 7

	Stable planetary boundary layers: nature, theory and role in weather, climate and Earth systems	Sergej Zilitinkevich	Finnish Meteorological Institute	sergej.zilitinkevich@fmi.fi
	Web-GIS based virtual research environment for Northern Eurasia climatic studies	Evgeny P. Gordov	Institute of Monitoring of Climatic and Ecological Systems SB RAS	epgordov@gmail.com

	Towards the harmonized PEEX project observational infrastructure: Building the metadatabase	Pavel Konstantinovich Alekseychik	University of Helsinki	pavel.alekseychik@helsinki.fi
	Satellite and ground based measurements: comparison of CO and CH ₄ total contents for background and polluted conditions	Vadim Rakitin	A.M.Obukhov Institute of Atmospheric Physics RAS	vadim@ifaran.ru
	Background CO and CH ₄ total contents: long-term IAP spectroscopic datasets, typical and abnormal variations and temporal tendencies	Eugeniy Grechko	A.M.Obukhov Institute of Atmospheric Physics RAS	negordy@yandex.ru

14:00-15:30 Session 8

	Temporal and spatial variability of biologically active UV radiation and UV resources over northern Eurasia	Natalia Chubarova	Lomonosov MSU	natalia.chubarova@gmail.com
	Investigation of atmospheric composition using ground-based methods in cloudy conditions at Russian-Belorussian DOAS Network	Oleg V. Postylyakov	A.M.Obukhov Inst. of Atmospheric Physics RAS	oleg.postylyakov@gmail.com
	Biogenic Aerosols - Effects on Clouds and Climate (BAECC) project as a showcase for benefits of comprehensive atmospheric observations	Tuukka Taneli Petaja	University of Helsinki	tuukka.petaja@helsinki.fi

