



Pan-Eurasian Experiment

PEEX

Join via zoom:

<https://helsinki.zoom.us/j/68261932088>

PEEX Online Meeting

Wednesday 28th April 2021, 12:30 EEST

Aims of the meeting:

- Introduce recent research highlights
- Discuss expectations and needs for PEEX collaboration
- Suggestions for the next PEEX Science Conference in 2022

Please register via this e-form: <https://elomake.helsinki.fi/lomakkeet/111303/lomake.html>

| Time | Topic | Speaker | Title of presentation |
|-------------------------|-------|--------------------------------------|---|
| Helsinki time (EEST) | | | |
| 12:30 | | Hanna K. Lappalainen (INAR, FI) | Welcome |
| 12:35 <i>keynote</i> | | Markku Kulmala (INAR, FI) | PEEX Plenary |
| 12:50 | | Nataly Chubarova (MSU, RU) | Changes in air quality and aerosol pollution in Moscow megacity and its direct and indirect impact on radiative and meteorological properties of the atmosphere due to COVID-19 pandemic lockdown in spring 2020 according to modelling and measurements. |
| 12:55 | | Olga Popovicheva (MSU, RU) | 1. Spring-summer 2020 aerosol pollution in Moscow metropolitan area 2. Climate-active aerosol components in the Siberian Arctic, by data from new-developed research aerosol station on island Bely. |
| 13:00 | | Mikhail Arshinov (IAO SB RAS, RU) | 1. Vertical distribution of aerosol particles over the Russian Arctic derived from in-situ aircraft measurements: the September 2020 campaign. 2. Vertical distribution of trace gases and aerosols over the Russian Arctic in September 2020 |
| 13:05 <i>keynote</i> | | Eugene Mikhailov (SPbU, RU) | Water uptake of subpollen aerosol particles: hygroscopic growth, CCN activation, and liquid-liquid phase separation |

ecosystem ● water ● aerosol ● weather ● society/education ● greenhouse gases ●

PEEX is a multi-disciplinary and multi-component climate change, air quality, environment, research infrastructure and capacity building programme.



| Time | Topic | Speaker | Title of presentation |
|-------|------------------|----------------------------------|---|
| 13:15 | aerosol | Tomi Karppinen (FMI, FI) | Satellite-based analysis of CO and Fires in the Arctic |
| 13:20 | | Larisa Sogacheva (FMI, FI) | Fire activity and its influence on aerosol optical depth and greenhouse gases over PEEEX area for the last two decades |
| 13:25 | | Anastasia Demakova (INAR, FI) | Formation and growth of aerosol particles in boreal forest of Siberia |
| 13:30 | | Igor Esau (NERSC, NO) | A local climate perspective from Arctic towns |
| 13:35 | greenhouse gases | Mykhailo Savenets (UHMI, UA) | The impact of wildfires in Ukraine on carbon flux and air quality changes by carbon-containing compounds |
| 13:40 | | Georgy Nerobelov (SPbU, RU) | 1. Estimation of the tropospheric and stratospheric CO ₂ content by ground-based IR technique. 2. Validation of the capability of WRF-Chem model and CAMS to simulate near surface atmospheric CO ₂ mixing ratio for the territory of Saint-Petersburg |
| 13:45 | | Alexey Panov (IAO SB RAS, RU) | Accurate continuous observations of carbon dioxide and methane dry mole fractions in the arctic atmosphere near the Dikson settlement, Siberia |
| 13:50 | | Svitlana Krakovska (UHMI, UA) | Projections of regional climate change in Ukraine based on multi-model ensembles of Euro-CORDEX |
| 13:55 | | Anna Bohushenko (OSEN, UA) | Detecting climate change in Ukraine: trends, prediction and extreme events |
| 14:00 | weather | Olga Stupishina (SPbU, RU) | The atmosphere circulation movements in the matching with space weather parameters variations |
| 14:05 | ecosystem | Victor Gornyy (SRCES RAS, RU) | Multiyear dynamics of remotely mapped characteristics of ecosystems in Northern Eurasia |
| 14:10 | | Alexander Mykytiuk (OSEN, UA) | Estimation of emission from organic soils |
| 14:15 | | Larysa Pysarenko (UHMI, UA) | Impact of deforestation on surface radiative properties and temperature characteristics in Ukraine based on LUMIP CMIP6 |
| 14:20 | | Alexander Makshtas (AARI, RU) | Thermal regime of soil active layer at the Bolshevik Island (Archipelago Severnaya Zemlya) during 2016 – 2020 years |
| 14:25 | | Irina Repina (OIAP RAS, RU) | Inhomogeneous surface of West Siberian peatland diagnosed by skin temperature distribution |

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| 14:30 | | Irina Fedorova (SPbU, RU) | Geochemical sensitivity of lacustrine ecosystems of Yamal Peninsula (Russian Arctic) to climate change |
| 14:35 | | Fidel Pankratov (INEP KSC RAS, RU) | Mercury background monitoring in the Lake Baikal region |
| 14:40 <i>keynote</i> | | Yubao Qiu (AIR CAS, CN) | Lake ice phenology changes in the Northern Hemisphere |
| 14:50 | | Petteri Uotila (INAR, FI) | A means-corrected estimate for the Arctic sea-ice volume in 1990–2019 |
| 14:55 | | Yubing Cheng (FMI, FI) | Inter-annual variations and large-scale atmospheric forcing on ice thickness and composition during the last decade in an Arctic lake |
| 15:00 | | Elena Klyuchnikova (INEP KSC RAS, RU) | Social consequences of climate change in the Arctic towns |
| 15:05 | | Katja Anniina Lauri (INAR, FI) | Science education for doctoral students: MODEST approach and experience |
| 15:10 | | Stephany Mazon (INAR, FI) | Hack the Arctic: transforming data into solutions as a community |
| 15:15-15:45 | Open floor discussion Chair: Tuukka Petäjä (INAR) | | |

PEEX Community

Welcome to the PEEX Special Session at EGU 2021

Thursday 29th April 2021

Abstracts: https://meetingorganizer.copernicus.org/EGU21/session/40486#vPICO_presentations

Visit the PEEX website
www.atm.helsinki.fi/peex/

ACP journal PEEX Special Issue, Vol. II:
https://acp.copernicus.org/articles/special_issue1103.html

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