

Time:	13–14 th December 2017
Place:	University of Helsinki, Kumpula Campus, Gustaf Hällströmin katu 2a, 00560 Helsinki, Finland
Minutes:	Päivi Haapanala, Hanna Lappalainen, University of Helsinki
APPENDIX1	Participant list
APPENDIX2	Agenda
Meeting Presentations:	www.atm.helsinki.fi/peex/

The two-day workshop (WS) gathered altogether 40 participants from which 7 were from Russia and 28 from Finland. In addition, two participants were from Denmark and following countries had one participant: Iceland, Switzerland and Estonia.

Overview of the PEEX Hands-on WS.

Aims of the hands-on workshop was to introduce and discuss the current PEEX activities and tools and to discuss the Working Group (WG) tasks & the future collaboration with the Russian PEEX offices. Agenda of the first day was on PEEX governance and information flows, as well as on PEEX infrastructures. On the second day, the focus was on socio-economic aspects and deepening the international collaboration between PEEX partners. Especially research and education collaboration between Finland and Russia was in the agenda. Hanna Lappalainen, Tuukka Petäjä and Sergej Zilitinkevich opened the workshop.

The WS presentations can be found from the PEEX intranet, participant list and this memo are available in: www.atm.helsinki.fi/peex/index.php/events

Summary of the discussion:

- Aim for the next year is to activate the new PEEX offices hosted by Moscow State University (MSU) and Tyumen State University. It was decided that a guideline document and annual work plans for PEEX Offices will be prepared. New PEEX contact point/office will be hosted by St. Petersburg University. Regular Skype meetings between PEEX offices will start next year.
- PEEX communication will be more structured in the future. PEEX Newsletter will be published on beforehand decided times and the section and balance between infra/research/education/PEEX activities with contributions from PEEX offices in different countries will be thought through.
- Working groups have been working quite separate so far. It was discussed that communications between WGs should be improved incl. establishing e-mailing lists between modelling – in situ stations and satellite WGs. A joint WG implementation roadmap should be drafted early next year and the satellite WG materials of the previous PEEX meetings will be incorporated to the plan. Marine WG will concentrate on more concrete tasks after the concept paper is ready.
- Based on discussion some action points for satellite WG were agreed
 - Identify on few case studies:
 - Connecting satellite observations and PEEX marine component: Petteri Uotila, Gerrit de Leeuw, Sergej Chalov
 - few case studies on satellite data and in-situ data (ground based air quality parameters, UV radiation, ground based sun photometer), emissions for biomass burning aerosols, their dispersion (transboundary, Russia, Finland): Tuukka Petäjä, Natalia Chubarova, Gerrit de Leeuw
 - Education of satellite data availability and data processing (course already planned at UHEL)
 - Overview of satellite observations (EU, USA, Russia, China)

- PEEEX Meta data and visualization platforms were discussed and the importance of open data was emphasized. Meta data survey and a station catalogue of the Russian in situ stations is under preparation. The current approach is focused on the RAS and university owned stations. The stations catalogue will be published in 2018. The role of MSU coordinating the metadata collections will be addressed in the future.
- New possibilities for education collaboration between Finland, Nordic countries and Russia were discussed. MSU, Univ. Tyumen and St. Petersburg State University introduced their doctoral and master programs and other education activities. New potential programs and places for joint field courses in a frame of PEEEX program and Nordic teachers network were discussed. Irina Fedorova (St. Petersburg State University) together with the Sergey Chalov (MSU) would act as the main contact points for PEEEX Russia education activities.
- Future work and ideas of new proposals and funding opportunities were discussed. The PEEEX subprogram, “Baikal Selenga Network (BaSeNet) project” will organize a science conference in Mongolia in autumn 2018. Other relevant events in 2018:
 - Air Quality Conference, a PEEEX special session (submitted), Barcelona, SPAIN, on 12–16.Mar.2018
 - EGU–PEEEX MP side meeting, Vienna, AUSTRIA on 8–13.Apr.2018
 - U-Arctic conference in Oulu, Helsinki FINLAND on 3–7.Sep.2018; PEEEX Special Session(s)
 - IIASA-IBFRA-PEEEX Conference week 38 (17–20)/39 (24–27) September 2018, IIASA, Vienna AUSTRIA (IBFRA “International Boreal Forest Research Association”)
 - PEEEX WG meeting in Vuosaari, Helsinki, FINLAND, on 1–2.Nov.2018
- The socio-economics research should be integrated to the PEEEX research agenda more strongly in the future. The new CIMO project on environmental change and epidemics by Dimitry Orlov (MSU, Univ. Helsinki) is the first PEEEX project in this area. The organization of the peex-socio-economic questionnaire to map the Russian socio-economic researchers and potential PEEEX partners was discussed. The MSU PEEEX Office could take a coordinator role here.
- PEEEX International collaboration and a position in the international landscape was introduced. Future Earth, GEOSS, Arctic Council WGs, U/Arctic. PEEEX will take increasingly active role as an Arctic boreal hub Thematic network during 2018: www.uarctic.org/organization/thematic-networks/arctic-boreal-hub/.