PEEX Preparatory Phase Project

University of Helsinki

PEEX "Pan-Eurasian Experiment" study is a multidisciplinary climate change, air quality, environment and research infrastructure programme focused on the northern Eurasian, particularly Arctic and boreal, regions. PEEX research agenda is reinforced by the services, adaptation and mitigation plans for the northern societies to cope with the global change. It is a bottom-up initiative by several European, Russian and Chinese research organisations and institutes. PEEX is open for other institutes to join in. More information on the project can be obtained from: www.atm.helsinki.fi/peex

PEEX agenda consists of four main objectives:

Focus-1

PEEX Research agenda
To understand the Earth system and the influence of environmental and societal changes in pristine and industrialised pan-Eurasian environments. Especially, PEEX aims to determine the processes relevant to the climate change in the pan-Eurasian region.

Focus-2

PEEX Infrastructures
To establish and sustain long term, continuous and comprehensive ground-based airborne and seaborne research infrastructures and to utilise satellite data and multiscale model frameworks. The data sets and archives will be developed and utilised in a joint manner. Validated and harmonised data products will be implemented to the models of appropriate spatial and temporal scales and topical focus.

Focus-3

PEEX Society dimension
To contribute to regional climate scenarios in the northern pan-Eurasian region and determine the relevant factors and interactions influencing human and societal wellbeing. Furthermore, it will assess the natural hazards (foods, forest fires, extreme water events, risks for structures built on permafrost) related to cryospheric changes in the PEEX domain and provide information for the adaptation and mitigation strategies for sustainable land use, energy production and human wellbeing.

Focus-4

PEEX Knowledge transfer
To promote the dissemination of PEEX scientific results and strategies in scientific and stakeholder communities and policy making, to educate the next generation of multidisciplinary global change experts and scientists and to increase the public awareness of climate change impacts in the pan-Eurasian region.

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