## PEEX PROJECTS: schedule, areas, and themes.

2009

2017

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Finnish Association of Aerosol Sciences Workshop-NORDFORSK

PEEX – CRAICC – Series of wokshops-NORDFORSK

ABBA: Atmosphere-hydrosphere interaction in Baltic Basin and Arctic Sea

ABBA: Satellite remote sensing and modelling of physical processes

ABBA: Theoretical, laboratory and field studies of the surface waves, drag and heat/mass transfer

ABBA: Satellite monitoring using data from different spectral ranges, restoration of characteristics of the surface waves and of the subsurface layers from satellite images ABBA: Wind wave measurements, wave hindcast and forecast in present and future climate 2014 2018 2023

Water environment and ecosystem in ice-infested areas under climate change and abrupt weather changes

Co-operation between TYUT and INAR in snow and ice research

Co-operation between NWPI ans INAR in hydrology

Enviro-PEEX on ECMWF: Modelling platform research and development for online coupled integrated meteorology-chemistry-aerosol feedback and interactions in weather, climate and atmospheric composition multi-scale modelling

Diagnosis and numerical simulation of the atmospheric boundary layer dynamics and the Arctic terrestrial ecosystems state under anthropogenic stress

Physical models of extreme marine weather events caused by climate change in the Arctic zone in the first half of the 21<sup>st</sup> century

Medical-geographical modelling of spatiotemporal changes in the spatial pattern of naturally-dependent and socially important diseases under the changing climate and economic development of the Russian Arctic

ClimEco: Mechanisms, pathways and patchiness of the Arctic ecosystem responses and adaptation to changing climate

TRAKT-2018: Transferable knowledge and technologies for high-resolution environmental impact assessment and management

ATM-GTP ERC:Atmospheric gas-to-particle conversion

FCoE-ATM: The centre of excellence in atmospheric- from molecular and biological processes to the global climate

INTAROS, Integrated arctic observation system

CRUCIAL/ PEEX: Critical steps in understanding land surface-atmosphere interactions: from improved knowledge to socioeconomic solutions

## ECOIMPACT

AEROCOSMOS- ATM (FCoE): Development of methods for monitoring of the dynamics of natural and antropogenic emissions of trace gases and aerosols in the atmosphere based on satellite data and modelling results

ABBA: response of Baltic ecosystems on changing physical and biogeochemical processes in the boundary layers of the sea Influence of natural and anthropogenic emissions of greenhouse and polluting gases on climate and ecosystem changes in Eurasia

SLICFONIA: complicate study of short-lived climate forcers in the Arctic

Integrated monitoring and forecasting system for local weather and microclimate

Beautiful Beijing- project

Science Workshops on New approach for Earth System modelling

Air-sea/land interaction: physics and observation of planetary boundary layer and quality of environment

COST Action ABBA: Advancing the integrated monitoring of trace gas exchange between biophere and atmosphere

