

Multi-Scales and -Processes Modelling and Assessment for Environmental Applications Research Training Intensive Course

Russian State Hydrometeorological University
St.Petersburg, Russia
20-25 April 2020



St Isaac's Cathedral and the Moika river. Photo by: Roman Evgenev

PRE-ANNOUNCEMENT

PEEX-AC: Pan-Eurasian Experiment – Academic Challenge



Aim

This Research Training Intensive Course will introduce young generation of researchers to special topics in atmospheric & environmental sciences, Earth system modelling approaches and applications. During the intensive course, participants will learn about the current progress and challenges in multi-scales & –processes modelling for Earth system research; meteorological/climate and atmospheric composition modelling and models evaluation. The programme will consist of theoretical lectures & practical exercises (to be accomplished by students as small-scale research projects ending with presentation of the project results).

YSSS Programme

• Lecturing

on aspects of modeling (numerical weather prediction, Earth system, climate, ensemble, atmospheric chemical transport, online integrated, processed-based; numerical schemes, physiographical data) and specific challenges; atmospheric boundary layer and dispersion and removal processes; atmospheric gas- and liquid-phase chemistry; aerosols properties, chemistry and microphysics; aerosols – cloud –radiation interactions; chemical and meteorological data assimilation; evaluation of models and verification.

& Practical Exercises as Small-Scale Research Projects (SSRP)

on selected research topics to be accomplished by groups of students led by teachers

EC-Earth – Risto Makkonen

Enviro-HIRLAM – Alexander Mahura

MALTE-Box – Michael Boy

Organizing Committee

Sergey Smyshlyaev, Maria Krasnyakova, Yana Drobzheva,

Eduard Podgaiskii, Alexander Pogoreltsev

Russian State Hydrometeorological University, Russia

Markku Kulmala, Tuukka Petäjä, Hanna Lappalainen, Katja Lauri, Alexander Mahura

Institute for Atmospheric and Earth System Research, University of Helsinki, Finland

Local Organizers (secretariat)

Maria Krasnyakova, Yana Drobzheva, Eduard Podgaiskii

Organizers

Pan-Eurasian Experiment (PEEX), PEEX Academic Challenge (PEEX-AC),

Russian State Hydrometeorological University (RSHU) & University of Helsinki (UH)

Institute for Atmospheric and Earth System Research (INAR)

(Intensive course is funded by the Finnish National Agency for Education, Finland)

Target audience

Young Researchers (advanced BSc, MSc, PhDs, Post Docs)

Selection criteria

Based on motivation letter, other skills (e.g. programming, etc.), CV & publication list

Registration deadline 15 December 2019

Language English

Costs no fee

Please, send your application package (*i.e. motivation letter, CV & publication list*)
to: m.krasnyakova@rshu.ru & alexander.mahura@helsinki.fi