

Selected pre-proposals for Finnish-Russian bilateral research projects to be funded by the Academy of Finland and Russian Foundation for Basic Research

23 projects involving Finnish Meteorological Institute

12 projects involving University of Helsinki

5 projects involving Geological Survey of Finland

Priorities RFBR / Academy of FI (April-June 2012)

“Arctic Research”

“Climate and Climate Change”

“Baltic Sea”

“Natural Hazards”

Arctic Research

ARCTIC: PHYSICAL PROCESSES, INTERACTIONS AND VARIABILITY

Institute of Geography RAS, Academician Vladimir M. Kotlyakov (director)

FMI, Meteorological Research, Dr. Timo Vihma

CONDITIONS, DYNAMICS AND STABILITY OF EURASIAN PERMAFROST

Earth Cryosphere Institute RAS, Academician Vladimir P. Melnikov (director)

Geological Survey of Finland (GSF), Prof. Ilmo Kukkonen

CLIMATOLOGY OF PLANETARY BOUNDARY LAYER IN NORTH EURASIA: SEARCHING FOR AREAS SENSITIVE TO HUMAN IMPACT & CLIMATE CHANGE

Institute of Geography RAS, Corr. member of RAS Andrey B. Shmakin

FMI, Meteorological Research Prof. Sylvain M. Joffre

SURFACE ENERGY BUDGETS AND SEASONAL CYCLE OF CO₂, METHANE, WATER VAPOUR AT HYDROMETEOROLOGICAL OBSERVATORY IN TIKSI

A.M. Obukhov Institute of Atmospheric Physics RAS, Dr.Sci. Irina Repina

FMI, Arctic Research, Dr. Tuomas Laurila

SNOW COVER AND ITS ROLE IN DYNAMICS OF PERMAFROST IN MODERN CLIMATE CONDITIONS

Institute of Geography RAS, Dr. Nikolay I. Osokin

FMI, Arctic Research, Prof. Jouni Pulliainen (head of division)

Climate and Climate Change

CLIMATE CHANGE IN THE NORTHERN EURASIA AND THE ARCTIC

A.M. Obukhov Institute of Atmospheric Physics RAS, Corr. Member of RAS I.I. Mokhov (director)

FMI, Climate Change Research, Prof. Heikki Järvinen

NORTHERN EURASIA AND ARCTIC OCEAN AS SOURCES AND SINKS OF GREENHOUSE GASES

Voeikov Main Geophysical Observatory, Dr. Alexander Zinchenko

FMI, Climate Change Research, Dr. Tiina Markkanen

TRANS-CONTINENTAL MONITORING OF ATMOSPHERIC CHEMISTRY AND AEROSOLS: RUSSIAN-FINNISH TRANS-SIBERIAN EXPERIMENT

A.M. Obukhov Institute of Atmospheric Physics RAS, Corr. Member of RAS Nikolay .F. Elansky

UH, Atmospheric Sciences, Prof. Markku Kulmala (head), Dr. Tuukka Petaja

LAKES AND SNOW COVER IN ATMOSPHERIC MODELS FOR POLAR AREAS

Russian State Hydrometeorological University, SPB, Prof. Alexander I. Pogoreltsev

FMI, Meteorological Research, Dr. Laura Rontu

Climate and Climate Change

REPRESENTATION OF THE STRATOSPHERE IN CLIMATE MODELS: IMPACT ON CLIMATE CHANGE SIMULATIONS

Institute of Numerical Mathematics RAS, Dr. Sci. Evgeny M. Volodin

FMI Arctic Research Unit, Dr. Alexey Y. Karpechko

CHANGES IN THE POLAR TROPOSPHERE ASSOCIATED WITH SOLAR AND GEOMAGNETIC ACTIVITY, AND THEIR ROLE IN GLOBAL WARMING

Institute of Solar-Terrestrial Physics SB RAS, Academician Geliy A. Zherebtsov

FMI Divisions of Earth Observation and Meteorological Research, Prof. Mikhail V. Uspensky

CLIMATE-BIOSPHERE: EXPERIMENTAL STUDIES OF WATER CYCLE IN MOUNTAINOUS FOREST WATERSHEDS IN FAR EAST AND SIBERIA

Pacific Geography Institute, Far East Branch of RAS, Dr. Sci. Boris I. Gartsman (Co-partners: Russian Ecological Alliance Ltd., Vladivostok; Biology & Soil Inst., Far East Branch RAS; Geography Institute, Irkutsk; Far East Regional Hydromet. Research Inst.)

UH, Atmospheric Sciences, Prof. Timo Vesala

EXTREME IMPACTS OF CLIMATE CHANGE AND WEATHER ON HUMAN HEALTH, AND DEVELOPMENT OF SYSTEMS OF EARLY WARNING ABOUT HEAT WAVES

Russian State Hydrometeorological University, Dr. Marina A. Trubina

UH, of Atmospheric Sciences, Prof. Kaarle Hämeri

Baltic Sea: General Aspects

DISPERSED SEDIMENT MATTER IN WATER COLUMN: PHYSICS, HYDRO-OPTICS, MICROBIOLOGY, GRANULOMETRY, AND VERTICAL FLUXES

P.P. Shirshov Institute of Oceanology RAS, Academician Alexander P. Lisitzin

Geological Survey of Finland (GTK), Prof. Aarno T. Kotilainen

ATMOSPHERIC AEROSOLS AND THEIR INPUT ON FORMATION OF SUSPENDED SEDIMENT MATTER

P.P. Shirshov Institute of Oceanology RAS, Dr. Alexey A. Klyuvitkin

UH, Atmospheric Sciences, Dr. Tareq Hussein

APPLICATION OF DIFFERENT MODEL APPROACHES TO STUDY BIOLOGICAL POLLUTION OF MARINE ECOSYSTEMS: BALTIC, AZOV, BLACK, & BARENTS SEA

Southern Sci. Centre of Russian Academy of Sciences, Rostov-on-Don, Dr. Sergey V. Berdnikov

UH, Atmospheric Sciences, Dr. Iryna Bashmakova

Baltic Sea: Remote Sensing

RETRIEVAL OF THE SEA-SURFACE WAVE SPECTRA USING HIGH RESOLUTION SPACE IMAGERY

State institution “AEROCOSMOS”, Academician Valery G. Bondur (director general)

FMI, Dr. Juha Karvonen

RETRIEVAL OF THE SEA INTERNAL WAVES FROM THEIR MANIFESTATION ON THE SURFACE REGISTERED BY RADAR SATELLITE IMAGERY

State institution “AEROCOSMOS”, Dr. Yuri V. Grebenyk

FMI, Climate Change Division, Prof. Gerrit de Leeuw

Baltic Sea: Air-Sea Interaction

SURFACE WAVES AND AIR-SEA INTERACTION

A.M. Obukhov Institute of Atmospheric Physics RAS, Academician George S. Golitsyn

Institute of Applied Physics RAS, Prof. Yuliya I. Troitskaya

FMI, Marine Research, Prof. Kimmo Kahma

THEORY AND MODELS OF AIR-SEA INTERACTION ACCOUNTING FOR WIND WAVES, THEIR CRUSH AND SEA SPRAY

Russian State Hydrometeorological University, Prof. Vladimir N. Kudryavtsev

FMI, Marine Research, Dr. Heidi Pettersson

NATURE, THEORY AND MODELLING OF THE ENERGY, MOMENTUM AND MATTER EXCHANGE BETWEEN THE ATMOSPHERE AND THE STORMY SEA

P.P. Shirshov Institute of Oceanology RAS, Academician Robert I. Nigmatulin (director)

FMI, Meteorological Research / UH, Atmospheric Sciences, Prof. Sergej S. Zilitinkevich

Natural Hazards

OPERATIONAL SYSTEM FOR REGIONAL MODELLING AND FORECASTING OF WILD FIRES AND FIRE-INDUCED AIR POLLUTION: REMOTE-SENSING AND MESOSCALE NUMERICAL SIMULATION

Tver State University Prof. Professor Andrey V. Belotserkovsky (rector)

FMI, Air-quality Research, Dr. Mikhail A. Sofiev

WILD FIRE MONITORING AND MODELLING FOR TRANS-BOUNDARY AIR QUALITY FORECASTS

Russian State Hydrometeorological University, Dr. Roman Y. Vankevich

FMI, Air Quality Research, Dr. Mikhail A. Sofiev

STUDY OF CARBON EMISSIONS DUE TO WILD FIRES USING SATELLITE MONITORING DATA

State institution “AEROCOSMOS”, Prof. Rustem G. Mamin

FMI, Climate Change Research, Dr. Tuula Aalto

ATMOSPHERIC AEROSOL, FOREST FIRES AND AIR QUALITY: NATURE, MODELLING AND IMPACT ON HUMAN HEALTH

A.M. Obukhov Institute of Atmospheric Physics RAS, Prof. Alexandr A. Makosko

UH, Atmospheric Sciences, Dr. Tuukka Petäjä

Thank you for your attention



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