Involvement/Participation in On-going & Completed Projects

1. **(2016-2017) – CRUCIAL**: Critical steps in understanding land surface – atmosphere interactions: from improved knowledge to socioeconomic solutions (*Nordic Research and Collaboration Project, NordForsk; PIs – Markku Kulmala, Hanna Lappalainen*) (<u>*Roles: team leader, participant*</u>)
2. **(2016-2020) – HIRLAM-C**: HIgh Resolution Limited Area Model research and development (in cooperation with the ALADIN consortium and Meteo-France); http://hirlam.org (<u>*Role*</u>: participant)
3. **(2015-2018) – H2020 EU ESCAPE**: Energy-efficient Scalable Algorithms for Weather Prediction at Exascale (*Horizon-2020 Research and Innovation Action; PI - Peter Bauer*); http://www.hpc-escape.eu (<u>*Role: participant*</u>)
4. **(2015-2017) – EnviroAerosols on ECMWF**: Enviro-HIRLAM/HARMONIE model research and development for online integrated meteorology-chemistry/aerosols feedbacks and interactions in weather and atmospheric composition forecasting (*HPC Project; PI – Bent Sass*) (<u>*Roles: co-PI, participant/ HPC user*</u>)
5. **(2015-2016) – DMI-HARMONIE**: DMI – Hirlam Aladin Research on Meso-scale Operational NWP in Europe (*Research and development project; <u>Role: participant</u>*)
6. (**2014-2017**) – **FP7 MarcoPolo**: Monitoring and Assessment of Regional air quality in China using space Observations, Project Of Long-term sino-european co-Operation (*EU FP7 Collaborative Project; PI – Ronald van der A*); http://www.marcopolo-panda.eu (<u>*Roles: team leader, WP5 "Air Quality Modelling and Forecasting" leader, participant*</u>)
7. (**2014-2015**) – **CRAICC-PEEX**: CRyosphere-Atmosphere Interactions in a Changing Arctic Climate and Pan Eurasian Experiment (*Cooperation within Top-Level Research Initiative, NordForsk; PIs – Timo Vesala, Sergey Zilitinkevich*); http://www.atm.helsinki.fi/peex (<u>*Roles: team leader, WP "PEEX Modelling Platform" co-leader, participant*</u>)
8. (**2014-2016**) – **CarboNord**: Impact of black carbon on air quality and climate in Northern Europe and Arctic (*Nordic Research Project, NordForsk; PI – Mikhail Sofiev*) (<u>*Roles: team leader, participant*</u>)
9. (**2012-2014**) – **Enviro-Chemistry on ECMWF**: Enviro-HIRLAM / HARMONIE - Development and Test of an NWP Model System Accounting for Aerosol-Meteorology Interactions (*HPC Project; PI – Alexander Baklanov*) (<u>*Roles: participant/HPC user*</u>)
10. (**2011-2015**) – **COST Action ES1004: EuMetChem** - European framework for online integrated air quality and meteorology modelling (*PI – Alexander Baklanov*); http://eumetchem.info (<u>*Roles: Danish Management Committee Member, participant*</u>)
11. (**2011-2015**) – **HIRLAM-B**: HIgh Resolution Limited Area Model research and development (in cooperation with the ALADIN consortium and Meteo-France); http://hirlam.org (<u>*Roles: participant*</u>)
12. (**2010-2014**) – **FP7 TRANSPHORM**: Transport related Air Pollution and Health impacts - Integrated Methodologies for Assessing Particulate Matter (*EU FP7 Integrated Project; PI – Ranjeet Sokhi*); http://www.transphorm.eu (<u>*Roles: participant*</u>)
13. (**2010-2012**) – **QualiMET**: Development of qualification framework in meteorology (*EC TEMPUS Project; PI – Sergey Zilitinkevich*); http://www.qualimet.net (<u>*Roles: involved, Enviro-HIRLAM training*</u>)
14. (**2010-2012**) – **MUSCATEN**: Towards Multi-Scale Modelling of the Atmospheric Environment (*NordForsk, PI - Rein Room*); http://muscaten.ut.ee (<u>*Roles: participant + Enviro-HIRLAM training*</u>)
15. (**2009-2011**) – **FP7 MACC**: Monitoring Atmospheric Composition and Climate (*Large-scale integrating project; PI - Adrian Simmons*); http://www.gmes-atmosphere.eu (<u>*Roles: participant*</u>)
16. (**2008-2011**) – **COST Action ES0603: EUPOL** - Assessment of production, release, distribution and health impact of allergenic pollen in Europe (*PIs - Mikhail Sofiev, Karl-Christian Bergmann*); http://www.unifi.it/COSTEupol (<u>*Roles: participant*</u>)
17. (**2008-2011**) – **fsRSF**: Fine-Scale Road Stretches Forecasting (*Research Project in cooperation with DRD; PIs – Torben S. Pedersen, Bent H. Sass*) (<u>*Roles: participant*</u>)
18. (**2008-2011**) – **FP7 MEGAPOLI**: Megacities: Emissions, urban, regional and Global Atmospheric POLlution and climate effects, and Integrated tools for assessment and mitigation (*EU FP7 Collaborative Project; PIs – Alexander Baklanov, Mark Lawrence, Spyros Pandis*); http://megapoli.info (<u>*Roles: project manager, participant*</u>)
19. (**2008-2010**) – Development of methodical bases and mobile equipment for monitoring of Xe and Kr radionuclides in the North-West region of Russia (*ISTC-2133 Research Project; PI – Yuri Dubasov*) (<u>*Roles: involved*</u>)
20. (**2008-2009**) - Atmospheric Trajectory and Chemical Transport Modelling for Elevated Ozone Events in Denmark (*DMI Pilot Study, PIs – Alexander Mahura, Allan Gross*)
21. (**2008-2010**) - Modelling of Anthropogenic Risks and Impacts for Environment and Climate of the North (*Research Project/Theme; PIs – Alexander Baklanov, Alexander Mahura*)
22. (**2007-2012**) – **CEEH**: Danish Centre for Energy, Environment and Health (*Research Project; PIs – Alexander Baklanov, Eigil Kaas*); http://ceeh.dk (<u>*Roles: involved*</u>)

23. (**2007-2011**) – **COST Action ES0602: ENCWF** - Towards a European Network on Chemical Weather Forecasting and Information Systems (*PIs – Jaakko Kukkonen, Konstantinos Karatzas*); http://www.chemicalweather.eu (*Roles: involved*)
24. (**2007-2010**) – **Combat-Meteo**: Development of competency-based two-level curricula in Meteorology (*TEMPUS TACIS Joint EU Project; PI – Sergey Zilitinkevich*); http://www.combat-meteo.net (*Roles: involved, Enviro-HIRLAM training*)
25. (**2006-2008**) – **RSF**: Road Segment/Stretch Forecasts (*Research Project in cooperation with DRD, PIs – Torben S. Pedersen, Bent H. Sass*) (*Roles: participant*)
26. (**2005-2010**) – **HIRLAM-A**: HIgh Resolution Limited Area Model research and development; http://hirlam.org (*Roles: participant*)
27. (**2005-2008**) – **FP6 Enviro-RISKS**: Man-induced Environmental Risks: Monitoring, Management and Remediation of Man-made Changes in Siberia (*EU FP6 INCO, PIs – Alexander Baklanov, Eugenie Gordov*); http://project.risks.scert.ru (*Roles: participant*)
28. (**2005-2009**) – **NetFAM**: Nordic Network on Fine-scale Atmospheric Modelling (*NordForsk, PI - Savijärvi Hannu*); http://netfam.fmi.fi (*Roles: participant + Enviro-HIRLAM training*)
29. (**2005**) – Vej-Stræknings-Vejr : Road-Stretch-Weather (*DMI Pilot Study; PIs – Alexander Mahura, Claus Petersen*)
30. (**2005-2007**) – Modelling of Atmospheric Transport and Deposition of Pollutants and Evaluation of Consequences for Arctic (*INEP KSC RAS Research Project/Theme, PIs – Alexander Baklanov, Alexander Mahura*)
31. (**2005-2006**) – **NKS-B/NordRisk**: Nuclear risk from atmospheric dispersion in Northern Europe (*NKS Research Project; PI – Bent Lauritzen*) (*Roles: participant*)
32. (**2004-2009**) – **COST Action 732**: Enhancing Mesoscale Meteorological Modelling Capabilities for Air Pollution and Dispersion Applications (*PIs – Ranjeet Sokhi, Alexander Baklanov*); http://www.cost728.org (*Roles: participant*)
33. (**2003-2005**) – Development of New Generation of Cloud and Precipitation Analyses for the Automatic Road Weather Model (*Research Project in cooperation with DRD, PIs – Torben S.Pedersen, Bent H.Sass*) (*Roles: participant*)
34. (**2002-2003**) – **SMELTER**: Assessment of Long-Range Transport and Deposition from Cu-Ni Smelters of Russian North (*INEP-DMI Pilot Study; PIs – Alexander Mahura, Alexander Baklanov*)
35. (**2002-2003**) – Evaluation of source-receptor relationship for atmospheric pollutants using trajectory modelling and probability fields analysis (*INEP-DMI Pilot Study, PIs – Alexander Mahura, Alexander Baklanov*)
36. (**2002-2005**) – **FP5 FUMAPEX**: Integrated Systems for Forecasting Urban Meteorology, Air Pollution and Population Exposure (*EU FP5 Collaborative Project, PI – Alexander Baklanov*); http://fumapex.dmi.dk (*Roles: participant*)
37. (**2001-2002**) – Assessment of Potential Risk of "Kursk" Nuclear Submarine Operation Phases (*INEP-DMI Pilot Study; PIs – Alexander Mahura, Alexander Baklanov*)
38. (**2001-2002**) – **FARECS-I, II**: Assessment of Impact of Russian Nuclear Fleet Operations on Russian Far Eastern Coastal Regions (*IIASA-DMI-INEP-NCAR-DOE-UV; Radiation Safety of Biosphere – RAD Project; PIs – Frank Parker, Vladimir Novikov, Keith Compton*) (*Roles: participant*)
39. **(2000-2004)** – Modelling of Anthropogenic Impact on the Arctic Environment (*INEP KSC RAS Research Project/Theme; PIs – Alexander Baklanov, Sergey Morozov*) (*Roles: participant*)
40. (**2000-2003**) – **AR-NARP**: Atmospheric Transport Pathways, Vulnerability and Possible Accidental Consequences from the Nuclear Risk Sites in the European Arctic (*NARP Project; PI – Alexander Baklanov*) (*Roles: participant*)
41. (**1998-2000**) – Assessment of Potential Risk of Environmental Radioactive Contamination in Northern Europe from Terrestrial Units in North-West Russia (*INTAS Project; PI – Alexander Baklanov*) (*Roles: participant*)
42. (**1998-2000**) – Identification of Source s and Long Term Trends for Pollutants Using Isentropic Trajectory Analysis (*UW-NOAA-CMDL-JISAO Joint Project; PIs – Dan Jaffe, Joyce Harris*) (*Roles: participant*)
43. (**1997-1998**) – Atmospheric Transport Pathways from the Kola Nuclear Reactors (*UAF-INE-FOA-CERUM Joint Project; PIs – Robert Andres, Dan Jaffe, Alexander Baklanov*) (*Roles: participant*)
44. (**1997-1998**) – Identification of Sources and Long Term Trends for Pollutants in the Arctic Using Clustered Trajectory Analysis (*UAF-NOAA-CMDL-CIFAR Joint Project; PIs - Dan Jaffe, Joyce Harris*) (*Roles: participant*)
45. (**1997-2002**) – Risk and Nuclear Waste: Nuclear Problems, Risk Perceptions and Societal Responses to Nuclear Waste in the Barents Region (*PI - Ronny Bergman*) (*Roles: participant*)
46. (**1996-1997**) – Atmospheric Transport Pathways from the Kola Nuclear Power Plant (*UAF-ADEC-FOA-BECN-CMF-INEP Joint Project; PIs - Dan Jaffe, Alexander Baklanov, Robert Andres*) (*Roles: participant*)
47. (**1995-1997**) – Atmospheric Transport Pathways to Alaska from Potential Radionuclide Sites in the Former Soviet Union (*UAF-ADEC Project 96-01; PIs - Dan Jaffe, Robert Andres*) (*Roles: participant*)
48. (**1995-1996**) – Impact of Asian Emissions on CO and O_3 Concentrations in the Northern Pacific Atmosphere (*NOAA Climate and Global Change Program, Grant NA36GPO2; PIs - Dan Jaffe, John Merrill*) (*Roles: participant*)
49. (**1993-1996**) – An Elaboration of Information System of Operational Forecast on the Radiation Hazards for the Kola Peninsula and North Kallott Countries (*INEP KSC RAS Research Project/Theme; PIs – Gennady Kalabin, Alexander Baklanov*) (*Roles: participant*)

50. (**1992-1996**) – Modeling of Possible Ecological Consequences from the Objects of Radiation Risk in the European Arctic (*INEP KSC RAS Research Project/Theme; PIs – Gennady Kalabin, Alexander Baklanov*) (*Roles: participant*)

51. (**1992-1996**) – Modeling of the Kola Nuclear Power Plant Impact on the Environment in Complex Physical-Geographical Conditions (*INEP KSC RAS Research Project/Theme; PIs – Gennady Kalabin, Alexander Baklanov*) (*Roles: participant*)

52. (**1991-1994**) – Soviet Arctic Haze - Study of Pollution in Alaska and USSR (*PIs – Dan Jaffe, Alexander Baklanov*) (*Roles: participant*)

53. (**1991-1995**) – "Ecological Learning Monitoring"; "Severonickel - Research Work"; "Khibiny - Ecological Tours with Research Aims"; "Radon", "Window in the Internet" (*INEP-ECONORD-ECO-AS Joint Research-Educational Projects; PIs – Alexander Mahura, Alexander Baklanov*)

54. (**1991-1995**) – Evaluation of the Severonickel Plant Impact on the Environment (*INEP KSC RAS Research Project/Theme; PIs – Gennady Kalabin, Alexander Baklanov*) (*Roles: participant*)

55. (**1990-1991**) – Investigation of Nonstability Criterion of Atmosphere in Short-Term-Range Weather Forecast for Prediction of Convective Parameters (*LGMI/RSHU University Research Project; PI – Dmitriy Kadyrov*) (*Roles: student*)

56. (**1988-1991**) – "Atmospheric Dispersion Modelling for Potential Accident Consequence Assessments at Nuclear Power Plants"; "Meso-Scale Meteorological Modelling of Boundary Layer Processes" (*LGMI/RSHU University Research Projects/Themes; PI – Alexander Gavrilov*) (*Roles: student*)