

Students: Teaching/ Co-advising/ Consulting (topics of ...)

1. **2025+ – Gulnar Orakova (PhD)** – Al-Farabi Kazakh National University (Almaty, Kazakhstan): “Synoptic-statistical assessment of air temperature extremes in the cold half of the year in the territory of Kazakhstan under changing climate conditions” (topics of atmospheric sciences, meteorology/climate related studies for Kazakhstan, ECMWF data visualization/analysis in Python)
2. **(2024) – CLUVEX 1st Virtual Exchange Week for students.** Training/moderating groups of students on the ERA-5 Past Climate Explore web-based tool for climate related data visualization, analysis and interpretation & Climate Horizon exercise (14-18 Oct 2024, online, Helsinki, Finland)
3. **(2024) – CLUVEX Trainings for moderators.** Training moderators about guidebooks on virtual exchanges, climate literacy and code of conduct, web-based tool for climate related data visualization, analysis and interpretation (5 online trainings during May – Sep 2024, Helsinki, Finland)
4. **(2023) – URSA MAJOR Hybrid Young Scientist School (YSS)** on “Socio-environmental interactions in sustainable smart cities”. Lecturing/Teaching/Training on seamless urban scale Enviro-HIRLAM modelling, exercises (small-scale research projects) and data analysis (31 Oct - 24 Nov 2023, Tromso, Norway)
5. **2023+ – Gulnur Musralinova (PhD)** – Al-Farabi Kazakh National University (Almaty, Kazakhstan): “Assessment of the current state of atmospheric air in Western Kazakhstan in the context of sustainable development” (topics of atmospheric sciences, Enviro-HIRLAM modeling on regional scale for application in meteorology and air quality studies for Kazakhstan, ground based meteo. and air quality observ., satellite data, visualization and analysis in Python)
6. **2021-2023 – Shatha Al-Sadi (MSc)** – University of Jordan (Amman, Jordan): “Model simulation for the exposure and dose assessment of nuclear radioactivity emitted during hypothetical nuclear power plant normal operation in Jordan” (topics of atmospheric sciences, pollution, radiation impact, METEO+TRANS meso-scale meteorological modelling and environmental pollution (with focus on radionuclides) and assessment)
7. **2021-2025 – Benjamin Foreback (PhD)** – University of Helsinki, Faculty of Science (Helsinki, Finland): (topics of atmospheric sciences, downscaling Enviro-HIRLAM model from regional-subregional-to-urban scales for application in air quality studies for China, meteorology for FLEXPART modelling)
8. **(2021) – MEGAPOLIS-2021 Online Young Scientist School (YSS)** on “Multi-Scales and -Processes Integrated Modelling, Observations and Assessment for Environmental Applications”. Organizing & Lecturing/Teaching/Training on seamless Enviro-HIRLAM modelling, exercises (small-scale research projects) and data analysis (15 Nov - 3 Dec 2021)
9. **(2021) – ClimEd Online Training** on “Digital tools and datasets for climate change education”. Organizing & Lecturing/Teaching/Training on climate related data analysis, exercises (small-scale research projects) (26 Oct – 12 Nov 2021)
10. **2021-2022 – Salma Khusein (BSc)** – Russian State Hydrometeorological University (St. Petersburg, Russia): (topics of atmospheric sciences, Enviro-HIRLAM regional-urban scale modelling, aerosols, emissions, statistical data analysis, links meteorology/ aerosols/ covid cases)
11. **(2021) – HackTheArctic. Hackathon event** including collaboration platform, Arctic data and analysis, virtual research environments, guidance/ mentoring from scientists; Challenges – Map the Arctic data, Science for policy-making, Services for citizens, Focus on Svalbard, Arctic Haze; (12-14 Mar 2021) mentoring on iCUPE Arctic datasets.
12. **2020-2022 – Aleksandr Losev (PhD)** Polar Geophysical Institute, Kola Science Center (Apatity, Russia): (topics of atmospheric sciences, Enviro-HIRLAM subregional-to-urban scale modelling, dust pollution, statistical data analysis)
13. **(2020-2021) – MODEST PhD courses development.** [Strand-A](#) (Research), [Strand-B](#) (Teaching and Learning), [Strand-C](#) (Communication and Cooperation). Co-organizing & moderating virtual events/ workshops; contributing to development of courses for Strand-A (Research).
14. **2020-2023 – Larysa Pysarenko (PhD)** – Ukrainian Hydrometeorological Institute / Taras Shevchenko National University of Kyev (Kyev, Ukraine): (topics of Enviro-HIRLAM regional and urban scale modelling, land-cover changes, emissions, effects on regional meteorology and climatology)
15. **(2020-2021-2022) – Online (zoom) Enviro-HIRLAM Research Trainings.** Organizing & Teaching/ training/ practicing on Enviro-HIRLAM modelling system setup, testing, etc. for young researchers from the RSHU, SPBU, KSC, UHMI, MSU, UHEL involved into the [PEEX-MP-Europa3](#) & [Enviro-PEEX\(Plus\) on ECMWF](#) HPC projects
16. **2020-2021 – Nikita Mikhailenko (BSc)** – Russian State Hydrometeorological University (St. Petersburg, Russia): “Study of the atmospheric boundary layer regimes over land and water surfaces with online integrated meteorology-aerosols interactions Enviro-HIRLAM model” (topics of atmospheric sciences, boundary layer meteorology, Enviro-HIRLAM regional and urban scale modelling, aerosols, emissions, statistical data analysis, aerosols effects on meteorology)
17. **(2020+) covid19 postponed – Research Training Intensive Course** on “Multi-scales and -processes modelling and assessment for environmental applications”. (FIRST+ PEEX-AC, 20-25 Apr 2020, St. Petersburg, Russia). Co-organizing; Lecturing & teaching Enviro-HIRLAM exercises (Small-scale research projects)
18. **(2019) – Research Training Course** on “Seamless/ online integrated meteorology-chemistry-aerosols multi-scale and -processes modelling”. Organizing & Teaching/training on Enviro-HIRLAM/ HARMONIE model and data analysis (AoF

ClimEco, 24-29 Jun 2019, Tyumen, Russia). Lecturing and teaching Enviro-HIRLAM exercises (Small-scale research projects)

19. **(2019) – Enviro-HIRLAM/ HARMONIE Research Training.** *Organizing & Teaching/training on Enviro-HIRLAM/ HARMONIE modelling and data analysis (Enviro-PEEX on ECMWF, 2-28 Apr 2019, Helsinki, Finland) for researchers of the Russian State Hydrometeorological University (RSHU, St. Petersburg, Russia)*
20. **(2018) – Enviro-HIRLAM/ HARMONIE Research Training.** *Organizing & Teaching/training on Enviro-HIRLAM/ HARMONIE modelling and data analysis (20-24 Aug 2018, Helsinki, Finland) for researchers of the Ukrainian Hydrometeorological Institute (UHMI, Kyiv, Ukraine)*
21. **2018-2019 – Marwan M. Al-Kloub (PhD)** – University of Jordan, School of Science, Department of Physics (Amman, Jordan): *(topics of atmospheric sciences, pollution, radiation impact, METEO+TRANS meso-scale meteorological modelling and environmental pollution (with focus on radionuclides) and assessment)*
22. **(2018) – Enviro-HIRLAM/ HARMONIE Research Training.** *Organizing & Teaching/training on Enviro-HIRLAM/ HARMONIE modelling and data analysis (Erasmus+ ECOIMPACT, 18 Feb – 4 Mar 2018, Helsinki, Finland) for researchers of the Taras Shevchenko National University of Kyev (TSNUK, Kyev, Ukraine)*
23. **2017-2018 – Benjamin Foreback (MSc)** – University of Helsinki, Department of Physics, Faculty of Science (Helsinki, Finland): *“Integration and testing of improved aerosol chemistry and physics algorithms in the SILAM model simulations” (topics of atmospheric sciences, Enviro-HIRLAM modelling, meteorology for atmospheric chemical transport modelling)*
24. **(2017) – Enviro-HIRLAM/ HARMONIE Research Training.** *Organizing & Teaching/training on Enviro-HIRLAM/ HARMONIE modelling and data analysis (Nordic PEEX-CRUCIAL, 4-15 Dec 2017 Helsinki, Finland) for researchers of the Russian State Hydrometeorological University (RSHU, St. Petersburg, Russia)*
25. **2017-2019 – Georgii Nerobelov (MSc)** – Russian State Hydrometeorological University (St. Petersburg, Russia): *“Regional-urban scales modeling of aerosols feedbacks: with focus on St. Petersburg, Moscow and Helsinki metropolitan areas” (topics of atmospheric sciences, boundary layer meteorology, HARMONIE and Enviro-HIRLAM regional and urban scale modelling, aerosols, emissions, statistical data analysis, aerosols effects on meteorology)*
26. **2017-2019 – Margarita Sedeeva (MSc)** – Russian State Hydrometeorological University (St. Petersburg, Russia): *“Processes, modeling and evaluation of aerosol impact on regional scale” (topics of atmospheric sciences, regional scale modeling, Enviro-HIRLAM, continuous emissions and accidental releases, integration modeling results with GIS-technology, transboundary atmospheric transport of pollution, statistical data analysis, assessment on environment and population)*
27. **(2017) – YSSS on "Energy-efficient Scalable Algorithms for Weather Prediction at Exascales".** *Co-organizing (Horizon-2020 ESCAPE project, 7-12 Aug 2017, Copenhagen, Denmark).*
28. **(2017) – [Research Training Course on “Online integrated meteorology-chemistry-aerosols modelling”.](#)** *Organizing & Teaching/training on Enviro-HIRLAM/ HARMONIE model and data analysis (Nordic PEEX-CRUCIAL, 26 Jun – 1 Jul 2017, St. Petersburg, Russia). Lecturing on on-line integrated/ seamless meteorology-chemistry-aerosols urban scale modelling, high resolution physiography and land-use/cover data, urbanization of models; Teaching Enviro-HIRLAM/ HARMONIE Urban Exercise (Small-scale research project) - Effects of Metropolitan Areas vs. Meteorology/ Chemistry/ Aerosols*
29. **2016-2017 – Anne Helene Koch Borrits (MSc)** – University of Copenhagen (Copenhagen, Denmark): *“Applicability of thermal mapping data, road finger-prints, physio-geographical and local conditions for road stretch forecasting” (topics of atmospheric sciences, road weather modelling, thermal mapping data, fine-scale road stretch forecasting, high resolution physiographical data, land-use/cover, micro-scale meteorology, statistical data analysis)*
30. **2015-2017 – Margarita Sedeeva (BSc)** – Russian State Hydrometeorological University (St. Petersburg, Russia): *“Regional modeling and GIS evaluation of environmental pollution from sources in the Arctic regions” (topics of atmospheric sciences, boundary layer meteorology, Enviro-HIRLAM regional scale modelling, emissions, GIS integration and analysis, air pollution, statistical data analysis)*
31. **2015-2017 – Georgii Nerobelov (BSc)** – Russian State Hydrometeorological University (St. Petersburg, Russia): *“Modeling of aerosols impact on regional-urban scales” (topics of atmospheric sciences, boundary layer meteorology, Enviro-HIRLAM regional and urban scale modelling, aerosols, emissions, air pollution, statistical data analysis)*
32. **2015-2016 – Nellie Edvardsson (BSc)** – University of Lund (Lund, Sweden): *“Aerosols influence on HARMONIE operational forecasts” (topics of atmospheric sciences, NWP modelling, statistical data analysis)*
33. **2015-2017 – Alexander Suhodsky (PhD)** – Russian State Hydrometeorological University (St. Petersburg, Russia): *“Impact of St. Petersburg urbanization on weather and air pollution forecasting using online integrated high resolution modelling” (topics of boundary layer meteorology, Enviro-HIRLAM urban scale modelling, air pollution, statistical data analysis)*
34. **(2015) – Enviro-HIRLAM Research Training Week.** *Organizing & Teaching/training on Enviro-HIRLAM model urbanization and data analysis (Nordic CRAICC-PEEX, 22-26 Jun 2015, St. Petersburg, Russia). Lecturing on NWP modelling, physiography data, land-use/cover, urbanization of NWP models; Teaching Enviro-HIRLAM Urban Exercise*

(Small-scale research project) - Influence of Metropolitan Areas on Meteorology and Chemistry

35. **2014-2018 – Kairat Bostanbekov (PhD)** – International IT University (Almaty, Kazakhstan): “Development of geoinformation system for the storage, processing and reporting data of ecological research” (*topics of atmospheric sciences, Enviro-HIRLAM regional modelling, dispersion modelling, statistical data analysis, GIS integration, risk assessment*)
36. **2014-2015 – Aleksander Andrzej Stysiak (MSc)** – University of Copenhagen (Copenhagen, Denmark): “Impact of regional afforestation on metropolitan climatic conditions: case study of Copenhagen” (*topics of atmospheric sciences, Enviro-HIRLAM urban/ high resolution modelling, statistical data analysis*)
37. **(2014) – YSSS-2014:** International Young Scientists Summer School on “Online Integrated Modelling of Meteorological and Chemical Transport Processes” (6-11 July 2014, University of Aveiro, Aveiro, Portugal; <http://aveirosummerschool2014.web.ua.pt>). *Lecturing on physiography data, land-use/cover, urbanization of NWP models & Teaching (with assistant: Julia Palamarchuk, Ukraine) Enviro-HIRLAM Urban Exercise (Small-scale research project) - The Influence of Metropolitan Areas on Meteorology and Chemistry*
38. **2013-2016 – Elena Mukhamedzhanova (BSc)** – Russian State Hydrometeorological University (St. Petersburg, Russia): “Climatology of atmospheric boundary layer height variability” (*topics of boundary layer processes, climatology, statistical data analysis, meso-scale modelling*)
39. **2013 – Nicolas Gilet (MSc)** – Institut National des Sciences Appliquées (Toulouse, France): “Analysis and improvement of statistical error in forecasted air temperature” (*topics of atmospheric sciences, NWP modelling, statistical data analysis*)
40. **2012–2015 – Alexander Kurganskiy (PhD)** – Russian State Hydrometeorological University (St. Petersburg, Russia)/ University of Copenhagen (Denmark): (*topics of atmospheric sciences, pollen emissions module, statistical data analysis, GIS integration, Enviro-HIRLAM modelling for pollen*)
41. **(2011) – YSSS-2011:** International Young Scientists Summer School on “Online Integrated Modelling of Meteorological and Chemical Transport Processes” (3-9 Jul 2011, Odessa State Environmental University, Odessa, Ukraine; <http://www.ysss.osenu.org.ua>). *Lecturing on physiography data, land-use/cover, urbanization of NWP models & Teaching (with assistants: Adomas Mazeikis, Lithuania & Iratxe Gonzalez-Aparicio, Spain) Enviro-HIRLAM Urban Exercise (Small-scale research project) - The Influence of Metropolitan Areas on Meteorology*
42. **(2011) – Enviro-HIRLAM Research Training Week.** *Co-organizing & Teaching/training on Enviro-HIRLAM model urbanization and data analysis (Nordic MUSCATEN, 21-25 Mar 2011, Copenhagen, Denmark)*
43. **2010-2012 – Iratxe Gonzalez-Aparicio (PhD)** – University of Basque Country / Technalia (Bilbao, Spain): “Air quality and meteorological modelling of urban areas in the context of climate change” (*topics of atmospheric sciences, urbanization of NWP model, land-use/cover, statistical data analysis, dispersion modelling, GIS integration, risk assessment, Enviro-HIRLAM urban-scale modelling; +teaching YSSS (2011) Enviro-HIRLAM exercises/small-scale research projects*)
44. **(2010) – Enviro-HIRLAM Research Training Week.** *Co-organizing & Teaching/training on Enviro-HIRLAM model urbanization and data analysis (Nordic MUSCATEN, 25-29 Oct 2010, Copenhagen, Denmark)*
45. **(2010) – Enviro-HIRLAM Research Training Week.** *Co-organizing & Teaching/training on Enviro-HIRLAM model urbanization and data analysis (Nordic MUSCATEN, 7-12 Jun 2010, Copenhagen, Denmark)*
46. **2009-2014 – Fidel Pankratov (PhD)** – Moscow State University / NPO Taifun (Moscow, Russia): “Dynamics of atmospheric mercury in Russian Arctic based on results of long-term monitoring” (*topics of atmospheric sciences, trajectory and dispersion modelling, atmospheric chemistry, statistical data analysis*)
47. **2009-2014 – Julia Palamarchuk (PhD)** - Odessa State Environmental University (Odessa, Ukraine): (*topics of urbanization of NWP model, statistical data analysis, Enviro-HIRLAM model training weeks; +teaching YSSS (2011, 2014) Enviro-HIRLAM exercises/small-scale research projects*)
48. **(2009) – Enviro-HIRLAM Research Training Week.** *Co-organizing & Teaching/training on Enviro-HIRLAM model urbanization and data analysis (Nordic NetFAM, 19-23 Oct 2009, Copenhagen, Denmark)*
49. **(2009) – Enviro-HIRLAM Research Training Week.** *Co-organizing & Teaching/training on Enviro-HIRLAM model urbanization and data analysis (Nordic NetFAM, 27 Apr – 1 May 2009, Copenhagen, Denmark)*
50. **(2009) – Enviro-HIRLAM Practical Course.** *Co-organizing & Teaching/training on Enviro-HIRLAM model urbanization and data analysis (Nordic NetFAM, 26-30 Jan 2009, Copenhagen, Denmark)*
51. **2008-2010 – Irina Petrova (BSc)** – Russian State Hydrometeorological University (St. Petersburg, Russia) / Radium Institute (St. Petersburg, Russia) / University Hamburg (Germany) “Identification of noble gases sources using atmospheric trajectory modelling” (*topics of atmospheric sciences, radioactivity, trajectory and dispersion modelling, cluster analysis, Enviro-HIRLAM model training weeks*)
52. **2008-2014 – Roman Nuterman (PhD)** – University of Copenhagen (Denmark) / Tomsk State University (Russia): (*topics of atmospheric sciences, urbanization of NWP model, statistical data analysis, Enviro-HIRLAM urban-scale modelling, Enviro-HIRLAM model training weeks; +teaching YSSS (2011, 2014) Enviro-HIRLAM exercises/small-scale research projects*)

53. **2008-2012 – Adomas Mazeikis (PhD)** – Vilnius University (Lithuania) / Lithuanian National Weather Service (Denmark): *(topics of urbanization of NWP model, statistical data analysis, Enviro-HIRLAM urban-scale modelling; +Enviro-HIRLAM model training weeks; +teaching YSSS (2011) Enviro-HIRLAM exercises/small-scale research projects)*
54. **2008-2010 – Yulia Gavrilova (MSc)** – Russian State Hydrometeorological University (St. Petersburg, Russia): *“Modelling study of urban areas impact on aspects of regional weather” (topics of boundary layer meteorology, NWP model urbanization, statistical data analysis, Enviro-HIRLAM urban-scale modelling; +Enviro-HIRLAM model training weeks)*
55. **(2008) – YSSS-2008:** International Young Scientists Summer School on *“Online Integrated Modelling of Meteorological and Chemical Transport Processes”* (7-15 Jul 2008, Russian State Hydrometeorological University, Zelenogorsk, Russia; <http://netfam.fmi.fi/YSSS08>). *Lecturing on physiography data, land-use/cover, urbanization of NWP models & Teaching Enviro-HIRLAM Urban Exercise (Small-scale research project) - The Influence of Metropolitan Areas on Meteorology.*
56. **2008, 2009, 2010, 2011 – Enviro-HIRLAM Research Training Weeks** (at DMI, Copenhagen, Denmark) for University students through Nordic NetFAM (<http://netfam.fmi.fi>) and MUSCATEN (<http://muscaten.ut.ee>) networks & the TEMPUS QualiMet and Combat-Meteo projects support: *(lecturing on physiography data, land-use/cover, urbanization of models; and practicalities on model setup/run, initial and boundary conditions, urbanization of meteorological model, visualization with Metgraf, statistical data analysis, validation, verification and interpretation)*
57. **(2008) – Enviro-HIRLAM Introductory Course.** *Co-organizing & Teaching/training on Enviro-HIRLAM model urbanization and data analysis (Nordic NetFAM, 7-10 Apr 2008, Copenhagen, Denmark)*
58. **2006-2008 – Larissa Balakay (PhD)** – KazGeoCosmos & Institute of Mathematics KazNAS (Almaty, Kazakhstan): *“Application of methods of geoinformational modelling for tasks of pollution of environment” (topics of dispersion modelling, statistical data analysis, GIS integration, risk assessment)*
59. **2006-2007 – Ilia Ovdoshenkov (BSc)** – Novgorod State University (Great Novgorod, Russia): *“Weather and climate of Kola Peninsula” (topics of atmospheric sciences, climatology, time-series analysis, statistical data analysis)*
60. **2005-2008 – Alexander Tridvornov (PhD)** – Institute of Numerical Modelling SB RAS (Krasnoyarsk, Russia): *“Evaluation of technogenic and complex risks from territorial-industrial sources (on example of the Krasnoyarsk Kray)” (topics of atmospheric sciences, dispersion modelling, radioactivity, statistical data analysis, GIS integration, risk assessment)*
61. **2002-2010 – Anton Svetlov (BSc, PhD)** – Petrozavodsk State University / Kola Science Center RAS (Apatity, Russia): *“Evaluation of aerotechnogenic pollution of Imandra lake by sulphates and heavy metals in time and space”; “Evaluation of aerotechnogenic risk for environment of Northern Fennoscandia” (topics of atmospheric sciences, dispersion modelling, air pollution, atmospheric chemistry, statistical data analysis, GIS integration, risk assessment)*
62. **2000-2008 – Alexander Kuchin (PhD)** – Kola Science Center RAS / Kola NPP (Apatity, Russia): *“ Peculiarities of automatic forecasting of radiation situation in regions of nuclear power plants“ (topics of atmospheric sciences, statistical data analysis, dispersion modelling, radioactivity, risk assessment)*
63. **1992-1995 – ECO-AS (at ECONORD Center) Society students** – from city’s High Schools interested in doing research in collaboration with scientists from research institutions of the Kola Science Center RAS (Apatity, Russia): *science-education oriented activities and projects on Kola Peninsula (Murmansk region) and Nordic countries (leading society and projects, teaching/lectures, practice/research on air pollution and meteorology measurements and modeling)*