

	<p>P5: RUSSIAN STATE HYDROMETEOROLOGICAL UNIVERSITY Saint Petersburg, Russia</p> <hr/> <p><i>Departments concerned with SUNRAISE-related topics:</i></p> <ul style="list-style-type: none"> - Faculty of Ecology (Department of Applied and System Ecology; and Department of Geo-ecology, Nature Use and Environmental Safety) - Faculty of Meteorology (Department of Meteorology, Climatology and Atmosphere Protection) - Institute of Hydrology and Oceanography (Department of Water-Technical Surveys) - Institute of Continuous Education <hr/> <p>Contact person: Dr. Eduard Podgaiskii (podgaisky@rshu.ru)</p>
---	--

SUNRAISE-RELEVANT RESEARCH TOPICS

1.	Methods and means of satellite monitoring of sea ice in the Arctic
2.	Influence of global dynamic processes on the composition and structure of the Arctic stratosphere
3.	Construction of the "sea ice-ocean-atmosphere" system in the Arctic
4.	Variability of the gas composition of the Arctic in a changing climate
5.	Urbanisation of the indigenous people of the Arctic and sustainable development of the social environment
6.	Gender research in the Arctic region

KEY PERSONALITIES, POTENTIAL MASTER'S AND DOCTORAL SUPERVISORS

- Dr. Denis Alexeev – *Research interests: Applied and system ecology*
- Prof. Dr. Nadezhda Sanotskaya – *Research interests: Hydrology; Hydraulics; Water resources; Statistics*
- Prof. Dr. Larisa Timofeeva – *Research interests: Catchment hydrology; Application of satellite data in hydrology; Interdisciplinary studies; Transboundary water bodies; Modern approaches for teaching hydrology*
- Prof. Dr. Aleksandr Evdokimov – *Research interests: Mineral resources of Russian Arctic*

CURRENT AND PAST PROJECTS

<p>Project 1: “Arctic PIRE: Promoting Urban Sustainability in the Arctic”</p>	<p><i>Funded by:</i> National Science Foundation (NSF), Office of the Director (OD), USA</p>	<p><i>Project type:</i> research, education</p>
<p><i>Keywords:</i> Urban sustainability; Arctic zone</p>		
<p>Project 2: “Development of a complex of digital educational solutions for continuous professional development in the field of hydrometeorological support and environmental monitoring in the Arctic zone - Federal Innovation Platform ‘Hydromet-Arctic’”</p>	<p><i>Funded by:</i> Erasmus+ programme of the European Union</p>	<p><i>Project type:</i> education, capacity development</p>
<p><i>Keywords:</i> Arctic zone; Human resources development</p>		
<p>Project 3: “Provision of specialised hydrometeorological information to ensure navigation in the Barents and White Seas and the area of the Prirazlomnaya OIRFP”</p>	<p><i>Funded by:</i> Gazprom-Neft</p>	<p><i>Project type:</i> building relations with external stakeholders</p>
<p><i>Keywords:</i> Arctic zone development</p>		
<p>Project 4: “Climate change and environmental protection in the Arctic - perception, education and environmental transformation”</p>	<p><i>Funded by:</i> Dialogue Trianon</p>	<p><i>Project type:</i> education, international cooperation</p>
<p><i>Keywords:</i> Environmental protection in Arctic</p>		
<p>Project 5: “Transarctic-2019”</p>	<p><i>Funded by:</i> Government of Russia</p>	<p><i>Project type:</i> research, education</p>
<p><i>Keywords:</i> Environmental research</p>		
<p>Project 6: “Business Index North”</p>	<p><i>Funded by:</i> Ministry of Foreign Affairs, Norway</p>	<p><i>Project type:</i> research, education, building relations with external stakeholders</p>
<p><i>Keywords:</i> Sustainability in the Arctic; Business opportunities</p>		
<p>Project 7: “Strengthening the capacity of MSP stakeholders and decision makers (Capacity4MSP)”</p>	<p><i>Funded by:</i> Interreg, European Union</p>	<p><i>Project type:</i> building relations with external stakeholders, research</p>
<p><i>Keywords:</i> MSP; Baltic region; Capacity building</p>		

CURRENT AND RECENT PhD THESES

- Ekaterina Bulavina “Snow cover toxicity as an indicator of the ecological status of urban areas” (2018 – ongoing)
- Ilya Pavlov “The influence of climatic parameters of the Vologda Oblast on the transport of pollutants in the atmosphere and the deposition of pollutants in urban areas” (2018 – ongoing)
- Rahmatullozoda Akobirdzhon “Hydrochemical regime of rivers of South-Western Tajikistan” (2017 – 2020)
- Sherali Murtazoyev “Geoecological analysis of air pollution factors in the city of Dushanbe” (2018 – 2021)

RESEARCH AMBITIONS IN RELATION TO SUNRAISE

1.	Implementation of research activities and provision of consulting services in the field of satellite oceanology, hydrometeorology, environmental management, and environmental safety for the Arctic zone
2.	Improvement of the system for training specialists and outreach
3.	Setting up the Centre of Arctic and Climate Research at the institution
4.	Development of a Microplastic Lab and an Arctic Lab in the institution

ENABLERS AND BARRIERS ENCOUNTERED FOR RESEARCH DEVELOPMENT

Enablers	Barriers
<ul style="list-style-type: none"> ➤ Highly experienced professionals ➤ Track record in research ➤ Good connections to alumni ➤ Growing interest in professional education ➤ Changes in national legislation ➤ Implementation of state programmes in the profile areas of the institution ➤ Uniqueness of the training offered ➤ Activation of participation in scientific and educational projects ➤ Development of scientific and educational centres 	<ul style="list-style-type: none"> ➤ Low salaries of teaching and support personnel ➤ Staff leakage ➤ Increased average age of teachers ➤ Increased pedagogical load of academic staff ➤ Outdated development plan of the institution ➤ Unforeseen risks, such as a pandemic

NATIONAL RESEARCH/ POLICY SUPPORTING RESEARCH DEVELOPMENT

1. Strategy for developing Russia's Arctic zone and ensuring national security up to 2035

CAPABILITY IMPROVEMENT TARGETED TO FULFIL THE ASPIRED RESEARCH GOALS

Improvements are desired in:

- Multimedia equipment
- Training for academic or technical staff in language skills
- Integration into the world-leading research
- Marketing policy
- Maintenance of educational buildings and dormitories

ENABLERS AND BARRIERS ENCOUNTERED FOR RESEARCH TRAINING

Enablers	Barriers
-	<ul style="list-style-type: none"> ➤ High competition for funds and excellence ➤ Small number of budget-funded places at post-graduate school