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# Environmental security via sustainable development goals: Localization in the Arctic Region

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# EUGEO 2021

8<sup>TH</sup> EUGEO CONGRESS ON THE GEOGRAPHY OF EUROPE  
June 28 – July 1, 2021 | Prague, Czechia

## Book of Abstracts



FACULTY OF SCIENCE  
Charles University





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## Introduction

Dear colleagues,

The Faculty of Science of Charles University and the Czech Geographical Society in cooperation with the Association of Geographical Societies in Europe (EUGEO) organized the 8<sup>th</sup> EUGEO Congress on the Geography of Europe, which was held in Prague from June 28 to July 1, 2021.

The congress continued the tradition of the EUGEO biannual congresses, bringing together geographers from all over the world. The main topic of the congress, Sustainable geographies in the heart of Europe, referred to the passion geographers have for the exploration of the world that surrounds us. Understanding complexity and fragility of geographical environment as well as of the own discipline has been an essential part of many geographical efforts. The congress welcomed all geographers, physical and human alike, and also a number of interested scholars from related disciplines.

Zdeněk Kučera

Chair of the organizing committee

Tadeusz Siwek

Chair of the scientific committee

Pavel Chromý

President of the Czech Geographical Society



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### Organizing Committee

Zdeněk Kučera (Chair of the organizing committee, Director of the Historical Geography and Environmental History Section, Czech Geographical Society; Charles University, Faculty of Science, Prague)

Dana Fialová (Vice-chair of the organizing committee, Vice-president of the Czech Geographical Society; Charles University, Faculty of Science, Prague)

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Jaromír Kolečka (Chair of South Moravian Section of the Czech Geographical Society; Masaryk University, Faculty of Education, Brno)

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## Scientific Committee

Tadeusz Siwek (Chair of the scientific committee, Vice-president of the Czech Geographical Society; Member of the National Geographical Committee / University of Ostrava, Faculty of Science)

Pavel Chromý (President of the Czech Geographical Society / Charles University, Faculty of Science, Prague)

Vít Vilímek (Chair of the National Geographical Committee / Charles University, Faculty of Science, Prague)

Jaromír Kolečka (Member of the National Geographical Committee / Masaryk University, Faculty of Education, Brno)

Asya Bogoeva (Association of Professional Geographers and Regionalists, Bulgaria)

Thomas Borén (The Swedish Society for Anthropology and Geography)

Konrad Czapiewski (Polish Geographical Society)

Elena Dell'Agnese (Italian Geographical Society)

Rubén C. Lois González (Association of Spanish Geographers)

Marina Frolova (Association of Spanish Geographers)

Francisco Klauser (Swiss Association of Geography)

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Leo J. Paul (Royal Dutch Geographical Society)

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Massimiliano Tabusi (Italian Association of Geographers)



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Ladislav Tolmáči (Slovak Geographical Society)

Manuel Valenzuela (Real Sociedad Geográfica)

Christian Vandermotten (Royal Belgian Society of Geography)



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### **Towards a Human Security System in the Arctic Zone of the Russian Federation**

#### **Organizers:**

**Alexander Sergunin** (*International Relations, St. Petersburg State University, St. Petersburg, Russia*)

The **main research objective** of this session is to discuss the ways and means of creating a human security system in the Arctic Zone of the Russian Federation (AZRF). This is especially important in the view of several recent Russia's strategic documents on the AZRF development adopted by the President and Parliament in 2020.

Along with the above general goal, there are a number of specific research objectives:

- To explore an emerging Russian discourse on human security and its relationships with other security-related concepts – national security, soft security, societal security, personal security, sustainable development, etc. Major Russian social science paradigms' interpretations of the human security concept will be analyzed. The panelists will discuss whether and how the human security concept is applicable to the Russian Arctic, and why it can be helpful for developing a sustainable development strategy for this macro-region. These issues will be examined in a joint paper by professors Maria Lagutina and Valery Konyshov, Faculty of International Relations, St. Petersburg State University, Russia.
- To examine whether the human security concept is embedded in the AZRF federal, regional and municipal documents, such as programs and plans of socioeconomic and environmental development, or not? It is also important to discuss what should be done to improve the strategic planning process in the AZRF? This problematique will be covered by Prof. Alexander Sergunin, Faculty of International Relations, St. Petersburg State University.
- To develop an AZRF environmental security index in order to rate Russian Arctic regions on its basis. In their joint paper, Dr. Nikolai Bobylev (Institute of Earth Sciences, St. Petersburg State University) and Prof. Sebastien Gadal (Aix Marseille Université, Aix en Provence, France) suggest their own methodology for constructing this rating. The ecological block of indicators includes three groups of parameters: impact on atmospheric air and water environment and waste management. The ecological-economic block of indicators includes characteristics, such as the expenditures on environmental protection and investments in this area per capita. The socio-ecological block includes two main parameters: the comfort of living in Arctic cities (index of the quality of the urban environment; share of the population with high and very high levels of pollution; provision of the population with clean drinking water) and the state of urban infrastructure (degradation of the infrastructure in areas, such as water supply, sewerage, waste collection and disposal, pollution control activities, and the degree of housing improvement).

**Keywords:** Russia, Arctic, human security, sustainable development, strategic planning

**ID:** 8

**Planning for human security strategy in the Russian Arctic urban centers: challenges and opportunities**

*Alexander Sergunin*



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**ID: 16**

**Environmental security via sustainable development goals: Localization in the Arctic Region**

*Nikolai Bobylev, Sebastien Gadal*

**ID: 336**

**Human perception and environmental risk index modelling with GIS in Yakutsk urban region (North-Eastern Siberia)**

*Sébastien Gadal, Moisei Zakharov, Jurate Kamicaityte*

**ID: 396**

**Adapting to new realities: Renewable energies and a low carbon future for the Russian Arctic in the aftermath of COVID-19**

*Valentina Ignatyeva, Sebastien Gadal*





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**ID:** 16

**Session:** Towards a Human Security System in the Arctic Zone of the Russian Federation

**Environmental security via sustainable development goals: Localization in the Arctic Region**

**Nikolai Bobylev** (*Saint Petersburg State University, Saint Petersburg, Russia*), **Sebastien Gadal** (*Aix-Marseille Université, Aix-en-Provence, France*)

Arctic region has scarce population, but its urbanization rate is quite high, especially in the Arctic Zone of the Russian Federation (AZRF). Considering environmental and human security, Arctic region poses many challenges: pristine and vulnerable natural environment, urban environment is often tainted with accumulated environmental damage, global climatic changes imposes additional stress and great uncertainty. Localization process means considering and implementing the United Nations Sustainable Development Goals at a local regional, city, or community level. Sustainable Development Goals offer quite interesting framework to consider environmental security issues, which is the focus of this presentation. Obtained research results to date consider ecological block of indicators and three groups of parameters: impact on atmospheric air and water environment, as well as waste management, and ecosystem services. The socio-ecological block includes two main parameters: the comfort of living in Arctic cities (index of the quality of the urban environment; the share of the population in regions and cities with high and very high levels of pollution; provision of the population with clean drinking water) and the state of urban infrastructure (degradation of the infrastructure in areas such as water supply, sewerage, waste collection and disposal, pollution control activities, and the degree of housing improvement).

**Keywords:** environmental security, sustainable development goals, localization