

СИБИРСКИЙ ФЕДЕРАЛЬНЫЙ УНИВЕРСИТЕТ SIBERIAN FEDERAL UNIVERSITY



MONITORING AND EARLY WARNINGS IN MOUNTAIN SOCIAL-ECOLOGICAL SYSTEMS Krasnoyarsk – Gorno-Altaisk, Russian Federation 15th – 29thJuly, 2018



Outline

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01. Organizers



The School was coorganized by Gorno-Altaisk State University and Siberian Federal University in cooperation with Russian and international partners.

02. School participants

Totally the School gathered 47 participants from Russia, India and EU countries.

SUNRAISE project partners

- Russian State Hydrometeorological University, Russia
 - Korobchenkova Ksenia Skorik Yana Bubnova Olga Alexeev Denis Eduard Podgaiskii Ershova Alexandra
- Siberian Federal University, Russia

Rubleva Marina Pribura Anastasia Sporykhina Tatiana Kondrasheva Yulia Polatarina Tatiana Tarasova Albina Blednova Anna Gette Irina Rodionova Alexandra Shashkova Tatiana Garmash Anastasia Pakharkova Nina Sorokina Galina Viktar Kireyeu Bezkorovainaia Irina Zlotnikova Olesya





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- Panko Yulia • Gorno-Altaisk State University, Russia Erzhanova Nurgul Lenskii Artem Koroteev Ivan Kolesnikov Ivan Dvoretskii Rotsislav Kireeva Daria Iurkova Natalia Zhuravleva Olga Klimova Oxana
- Jawaharlal Nehru University, India Kumar Praveen Mangalasseril Mohammad Anees
- Salzburg University, Austria Schmid Astrid Proell Petra Anderl Tobias Julian
- Estonian Life Science University, Estonia Valdo Kuusemets Kadri Kask Kristel Kirsimäe Jaak Kliimask
- NGO Altai-Sayan Mountain Partnership, Russia Tatiana Yashina
- Erda Research Technology Education, The Netherlands Anton Shkaruba

Participants from other institutions

- Moscow State University, Russia Leonova Glafira
- Pskov State University, Russia
 Olga Likhacheva
- Polytechnic Institute of Santarem, Portugal Rodrigues Silva Samartinho João Paulo Martins Jacob Maria do Ceu





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03. School objective

The School was designed as an "action school" aimed at the study and solution of real life problems. That is why its program included not only theoretical material, but also practical course in research methodology and group work on various multidisciplinary projects. The discussions were primarily based on the EU experience that was analyzed for its applicability in socio-economic, political, and biophysical contexts of the Altai Republic.



04. School description

The School started in Krasnoyarsk, where the participants had some introductory lectures followed by a research excursion and a wrap-up seminar in Stolby Nature Reserve.



Summer School



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Then, the group moved to the Altai Republic, where the main school activities were held. In the tour camp Manzherok, the school's primary location, European and Russian faculty delivered lectures on key school themes.

In order to facilitate the choice of case study projects, GASU faculty introduced the case study areas and told the students about the socio-economic and ecological problems typical for the Altai Republic as a mountain region.

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At the next stage, the participants were divided into three groups in accordance with the location of their case studies: the Lake Teletskoye Group, the Katunskiy Reserve Group, and the Manzherok Group.







Summer School



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Much attention was also paid to the work with local stakeholders. For example, the Lake Teletskoye Group met with the Head of Artybash Rural Settlement Aleksey Kirshin and members of the local Ecological club. The Katunskiy Reserve Group visited office of the Reserve and the Administration of Ust'Koksa District (administrative subdivision). The Manzherok Group worked closely with the director general of LLC "Solar Energy" Andrey Yalbakov, specialists of the solar power station in Maima, and personnel of Gorno-Altaisk airport weather station.



Meeting with the Head of Artybash Rural Settlement A. Kirshin

A. Ershova (RSHU) delivered a lecture "Marine Litter" and told the children from the Ecological Club of Lake Teletskoye about plastic waste and micro-plastics in the oceans.



Lecture of A. Yalbakov



Visit to the Solar power station in Maima





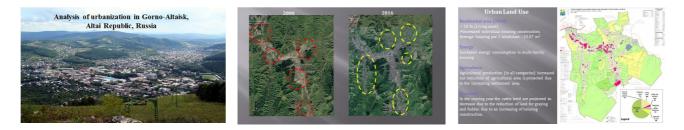
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05. Results

After the practical part of the School, all the participants came back to the tour camp Manzherok to present their findings. Finally we got 7 very interesting projects.

1. Analysis of Urbanization in Gorno-Altaisk, Altai Republic, Russia



2. The Climate Changes on Lake Teletskoye and Its Landscape and Socio-Economic Consequences



3. Lake Teletskoye: Modern State and New Challenges



4. Problems and Prospects of Tourism Development in Arybash Rural Settlement







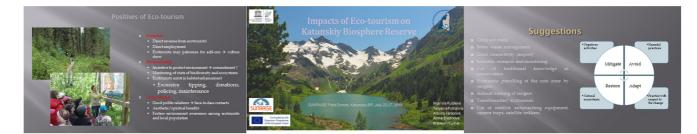
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5. Alternative Energy Development in High Mountainous Areas



6. Impacts of Eco-Tourism on Katunskiy Biosphere Reserve



7. Dynamics of Mountain Landscapes of the Katunsky Biosphere Reserve and Adjacent Territories

