

# Monitoring and Early Warnings in Water Governance

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*The Summer School is organised under the Erasmus+ project «Systems for monitoring and responses to early warnings – EU experience for Russia»*

The Summer School on water governance is organised by **Siberian Federal University** (Krasnoyarsk, Russia). It is designed as a research training exercise, with the Krasnoyarsk Water Reservoir (also known as the **Sea of Krasnoyarsk**, the Eurasia-largest water reservoir) on the river of Yenisei and the lake of **Baikal** (the world largest freshwater body) set as case studies. The School will include research methodology training and group work on multidisciplinary research projects. Transfer to Baikal will involve an overnight train trip on the **Trans-Siberian Railway**.



*Water governance involves significant analytical and normative uncertainty not at least due to complex biophysical set-ups, such as interdependencies between land- and water-use, complex institutional networks, and different upstream and downstream challenges. In order to steer progress towards sustainable development goals (SDGs), of which many relate directly or indirectly to water, governance actors require effective science-policy interfaces capable of timely recognition and communication of early warnings, backed by effective monitoring networks, including citizen science arrangements.*

*This summer school will build research capacity and strengthen science-policy interactions for addressing these issues in Siberia and beyond. The **target audience** are early-stage researchers, civil servants and NGO activists involved in the management of freshwater ecosystems. The **focus** will be on monitoring, reporting and verification systems for water and ecosystem governance, recognition of early warnings and development of science-policy interfaces. This discussion will be primarily based on the EU experience. It will be analysed for its applicability in Russian (in particular Siberian) socio-economic, political and biophysical context.*

*The school will be held in the main campus of Siberian Federal University in Krasnoyarsk, and at the **Baikal** Lake in Russia. The participants will be engaged in group projects on a specific water/aquatic ecosystem-related issue in relation to the SDG agenda; the locations provide reach opportunities for setting-up case studies encompassing the range of topics.*

**The School program** will include the following components:

- training and discussions: lectures and workshops by the academic staff of Siberian Federal University (SFU), Institute of Biophysics and international faculty:
  - Challenges and opportunities of water management and water governance
  - Sustainable development goals (SDGs), sustainability indicators
  - Systems for monitoring, reporting and verification in water governance
  - Science-policy interfaces and communication issues in water governance; citizen science
  - Policy transposition and implementation deficits
  - Transboundary water governance and water conflicts in the EU and beyond
  - Adaptive governance of water resources and water-related ecosystem services – principles and implementation issues
  - Policy frameworks for water governance: EU directives (WFD, Drinking Water, Bird, Habitat), Espoo and Water conventions, and implementation issues
  - Field and desk social science methodology and research tools for the analysis of water governance
- research:
  - development of group research plans in consultation with the School faculty, including the identification of aims and objectives, choice of methodology; panel discussion of research plans
  - group research at the Lake of Baikal
  - desk research in Krasnoyarsk (and in the train on the way from Irkutsk to Krasnoyarsk);
- research seminar: presentation of group findings and their discussion with the School faculty and representatives of stakeholder groups.

The training and research planning periods will be organised at the main campus of Siberian Federal University in Krasnoyarsk; it will also include a research excursion to the celebrated Krasnoyarsk Water Reservoir (Sea of Krasnoyarsk). The case studies will focus on the Lake of Baikal; the research groups will travel by the Trans-Siberian railway overnight service to Irkutsk, and then by bus to the Isle of Olkhon in the Lake of Baikal (the exact venue will be confirmed by April 2017). For the desk research and the presentations, all the groups will move back to Krasnoyarsk.

**The School working languages** are English and Russian. At any rate, we will do our best to eliminate the language barrier.

We will also do our best to create intellectually stimulating, creative and stress-free working and living environments. It is of utmost importance to us that the School participants not only receive useful knowledge and add new contacts to their networks, but also enjoy Siberia and have rest. Baikal is known as one the Russia's most beautiful spots, and this is for reason, while the Isle of Olkhon is arguably the most scenic part of Baikal. We will work on achieving good work-life balance to ensure that you will have positive and lasting memory of the Summer School and Siberia.

What happens next?

All the presentations will be followed up with structured feedback and recommendations for further work on research findings to bring them into a publishable form. Subject to the quality of findings, the School faculty will discuss options for joint publications in Russian and international peer-reviewed journals and/or for inviting contributions to a textbook on systems for monitoring, reporting and verification.

**The School target audience** are senior bachelor's students, master's and starting PhD students, as well as civil servants, environmental activists and anyone interested in water governance and applications of the EU experience in Russia.

### **How to apply**

In order to participate in the Summer School, you need to submit a short (1 page max) CV and the application form. If your academic or professional background are not related to the topics of the School, you would also need to submit a short (up to 3000 characters) statement explaining your purpose and intentions in relation to the School. On-line application form is available at <http://forms.sfu-kras.ru/summer-water-school>.

**The application deadline is April 28, 2017**; for the applicants who do not need to apply for a Russian visa, it is **May 20, 2017**.

### **Financial information**

We do not charge tuition fees; the School fee is USD 280, and it covers catering, accommodation, local transportation and excursion costs; some of the costs are partly or fully subsidised by Siberian Federal University. Partial and full tuition waivers can be provided on limited basis to the participants travelling from abroad or remote parts of Russia, coming from developing countries and/or demonstrating outstanding research and publishing profiles. The roundway train trip from Krasnoyarsk to the lake of Baikal (5000-12000 Russian roubles depending on the preferred travel class) is not included to the fee, and shall be covered by participants. Accommodation, catering, local transportation and train ticket reservations will be centrally arranged.

For more information about the School and the application procedure, please visit the Summer School Web-page (<http://www.sfu-kras.ru/en/education/courses/ecological-school>).

### The School Faculty:

**Sybillé van den Hove**, MEDIAN S.C.P. (Barcelona, Spain), *TBC*

**Viktar Kireyeu**, Erda RTE (Rijswijk, the Netherlands)

**Olga Likhacheva**, Pskov State University (Pskov, Russia)

**Ruben Mnatsakanian**, Central European University (Budapest, Hungary)

**Irina Molodikova**, Central European University (Budapest, Hungary)

**Hans-Peter Nachtnebel**, University of Natural Resources and Life Sciences (Vienna, Austria)

**Ilona Otto**, Potsdam Institute for Climate Impact Research (Potsdam, Germany), *TBC*

**Nina Pakharkova**, Siberian Federal University (Krasnoyarsk, Russia)

**Tatiana Shashkova**, Siberian Federal University (Krasnoyarsk, Russia)

**Anton Shkaruba**, Central European University (Budapest, Hungary)

**Galina Sorokina**, Siberian Federal University (Krasnoyarsk, Russia)

**Egor Zadereev**, Institute of Biophysics, Russian Academy of Science (Krasnoyarsk, Russia)

**Ruben Zondervan**, Lund University (Lund, Sweden), *TBC*

### Contacts:

- logistics, accommodation, applications, enrolment and tuition fees: Anastasia Garmash, [agarmash@sfu-kras.ru](mailto:agarmash@sfu-kras.ru)
- academic planning and research: Anton Shkaruba, [shkarubaa@ceu.edu](mailto:shkarubaa@ceu.edu)

## Schedule of the summer School “Monitoring and Early Warnings in Water Governance”

### July 09, Sunday

- arrivals, course registration, checking-in in the dormitory of Siberian Federal University in Krasnoyarsk

### July 10, Monday

09:00 – 10:00 – course registration (the main hall of the Library of Siberian Federal University)  
10:00 – opening ceremony; welcome from the Rectorate of Siberian Federal University (tbc), presentation of the Summer school, including the academic component (Anton Shkaruba), house rules (Nina Pakharkova) and logistics (Galina Sorokina), room Б1-01 (SibFU Library)  
10:30 – 12:00 – Introductory sessions 1 (TBD), room Б1-01 (SibFU Library)  
12:00 – 13:30 – lunch, campus excursion  
13:30 – 16:00 – Introductory sessions 2 (TBD), room Б1-01 (SibFU Library)  
16:00 – 19:00 – city tour

### July 11, Tuesday

09:00 – 13:00 – taught sessions (TBD), room 44-12  
13:00 – 14:00 - lunch  
- introduction of the participants, identification of joint research interests, getting together research groups (the specific time slots will be determined upon the arrival to the camp and the checking-in)  
14:00 – 18:00 – taught sessions (TBD), room 44-12

### July 12, Wednesday

09:00 – 18:00 – a research excursion to the Krasnoyarsk Water Reservoir

### July 13, Thursday

Departure from Krasnoyarsk Main Railway Station for Irkutsk (time and train are TBD later)

### July 14, Friday

Arrival to Irkutsk Railway Station, city tour, bus transfer to the Isle of Olkhon, check-in in the tourist camp

### July 15-17, from Saturday to Monday

- project work in groups, hiking

### July 18, Tuesday

- bus transfer to Irkutsk Main Station, train departure to Krasnoyarsk, desktop research in the train

### July 19, Wednesday

- in-train desktop research and consultations with the School faculty, arrival to Krasnoyarsk

### July 20, Thursday

09:00 – 18:00 – Desk research by project groups; consultations with the faculty, room 44-12

### July 21, Friday

10:00 – 16:00 – Presentations by research groups, panel discussion, graduation, room Б1-01 (SibFU Library)  
18:00 – 21:00 – farewell dinner, the small banquet hall

### July 22, Saturday

9:00 – 18:00 – hiking and climbing tour to the “Stolby” nature reserve

### July 23, Sunday

- departures