

HEAD INSTITUTES

Karaganda Buketov University (KBU)

Association for the Conservation of Biodiversity of Kazakhstan

Severtsov Institute of Ecology and Evolution of the

Russian Academy of Sciences (IEE RAS)

ORGANISING TEAM

- ***Yerkeblan Tazhbaev***, Doctor of Science, Corresponding Member of the National Academy of Sciences of Kazakhstan, Vice-rector for research, KBU
- ***Alexei Tiunov***, Doctor of Science, Corresponding Member of RAS, head of laboratory, IEE RAS
- ***Konstantin Gongalsky***, Doctor of Science, Professor RAS, head of laboratory, IEE RAS
- ***Asel Zhumina***, PhD, Associate Professor, dean of Geography and Biological faculty, KBU
- ***Aidar Aitkulov***, PhD, Associate Professor, KBU
- ***Margarita Ishmuratova***, PhD, head of laboratory, Professor-researcher, KBU
- ***Maxim Shashkov***, senior researcher, KBU
- ***Kundyz Nurlybaeva***, PhD, Associate Professor, KBU

Secretariat

- ***Natalya Ivanova***, PhD, senior researcher, Institute of Mathematical Problems of Biology RAS
- ***Anastassiya Fedorova***, KBU

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KEYNOTES, TRAINERS, AND MENTORS

Helen Phillips, PhD, Assistant Professor, University of Helsinki, Helsinki, Finland

Pallieter De Smedt, PhD, postdoctoral researcher, Ghent University, Ghent, Belgium

Lubomir Penev, PhD, Professor in Ecology, Bulgarian Academy of Sciences, Pensoft Publishers, Sofia, Bulgaria

Elena Razenkova, PhD, research scientist, Wisconsin Department of Natural Resources, Madison, USA

Tatyana Bragina, Doctor of Science, Professor, U. Sultangazin Pedagogical Institute, Kostanay, Kazakhstan

Andrey Zaitsev, PhD, leading researcher, Severtsov Institute of Ecology and Evolution of the Russian Academy of Sciences, Moscow, Russia

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Andrey Zuev, PhD, researcher, Senckenberg Museum of Natural History, Görlitz, Görlitz, Germany

Anna Geras'kina, PhD, head of laboratory, Center of Forest Ecology and Productivity RAS, Moscow, Russia

Maxim Shashkov, senior researcher, Karaganda Buketov University, Karaganda, Kazakhstan

Artëm Sozontov, PhD, senior researcher, Institute of Plant and Animal Ecology of the Ural Branch of RAS, Ekaterinburg, Russia

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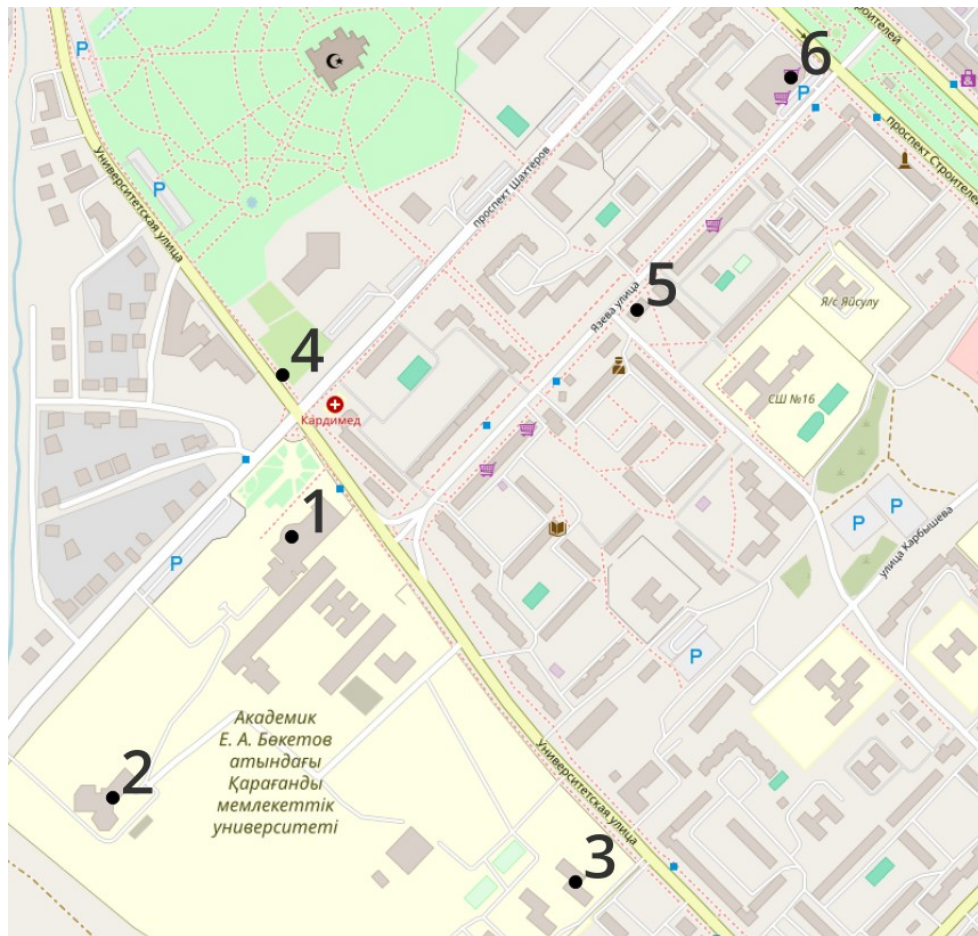
Ruslan Saifutdinov, PhD, senior researcher, Severtsov Institute of Ecology and Evolution of the Russian Academy of Sciences, Moscow, Russia

Valeria Adamova, PhD, Associate Professor, Belgorod State University, Belgorod, Russia

Evgeniya Plakhkina, PhD Student, Perm State University, Perm, Russia

Anastassiya Fedorova, Karaganda Buketov University, Karaganda, Kazakhstan

IMPORTANT LOCATIONS



- 1 — the main building
- 2 — Biology and Geography Faculty (BGF)
- 3 — the dormitory
- 4 — bus stop to the city center
- 5 — cafe Tagam (around the clock)
- 6 — supermarket Korzina

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Telegram



iNaturalist bioblitz



SCIENTIFIC PROGRAMME

Monday, August 18, the main building

9.30–10.30 Registration

10.30–11.10 Opening

11.10–12.10 Keynote: ***Elena Razenkova***

Introduction to SDM.

12.10–13.10 Keynote: ***Helen R. P. Phillips***

Understanding the distribution of, and impacts to, earthworm communities across the globe. (on-line)

13.10–14.30 ***Lunch***

14.30–15.30 Keynote: ***Tatyana Bragina***

Soil zoology research in Northern Kazakhstan: history and results. (on-line)

15.30–16.00 Case study: ***Pallieter De Smedt***

Terrestrial isopods as model organisms to understand soil fauna distribution in a changing world.

16.00–16.30 ***Coffee break (BGF)***

16.30–17.00 Case study: ***Anna Geras'kina***

Earthworms of the North-West Caucasus: from the field to the model.

17.00–17.30 Case study: ***Maxim Shashkov***

Earthworms of the European part of Russia: literature heritage and citizen science for modelling.

17.30–19.30 ***Welcome Party (BGF)***

Tuesday, August 19

The main building

9.00–10.00 Lecture: *Natalya Ivanova*
Global Biodiversity Information Facility: outside and inside.

Biology and Geography Faculty

10.00–10.30 *Coffee break*

10.30–12.30 Practice: GBIF data download, data cleaning.
Advanced: rgbif tools. *Artëm Sozontov*
Beginners 1, 2: Downloading data via the GBIF interface.
Spreadsheet tools for data cleaning. *Natalya Ivanova, Aidar Aitkulov*

The main building

12.30–14.00 *Lunch*

14.00–14.30 Lecture: *Natalya Ivanova*
iNaturalist.

14.30–15.00 Lecture: *Andrey Zaitsev*
Edaphobase.

15.00–15.30 Lecture & Practice: *Artëm Sozontov*
Literature data digitisation.

15.30–16.00 Practice & Lecture: *Evgeniya Plakhkina*
Citizen Science projects.

Biology and Geography Faculty

16.00–16.30 *Coffee break*

16.30–17.30 Practice: *Artëm Sozontov*

Literature data digitisation using Arachnolibrary tools.

Advanced: Russian language literature.

Beginners 1, 2: Russian language literature.

The main building

17.30–18.30 Keynote: *Lubomir Penev*

Data papers. (on-line)

18.30–19.00 *Discussion*

Wednesday, August 20, the main building

9.00–10.00 Lecture: *Maxim Shashkov*

Predictor layers: climate, biotopes and soil.

10.00–11.00 Practice: *Maxim Shashkov, Ruslan Saifutdinov, Valeria Adamova, Elena Razenkova*

Predictor layers: extracting values and avoiding multicollinearity.

11.00–11.30 *Coffee break* **(BGF)**

11.30–12.30 Lecture: *Elena Razenkova*

Main modelling algorithms.

12.30–14.00 *Lunch*

14.00–15.30 Practice: *Anna Geras'kina*

MaxEnt.

Advanced, Beginners 1, 2

15.30–16.00 Case study: *Andrey Zaitsev*

Modelling earthworm ecological-category distribution reveals their habitat, land-use and environmental preferences.

16.00–16.30 *Coffee break* **(BGF)**

16.30–17.30 Keynote: *Andrey Zuev*

Stable isotope mapping of invertebrate habitats.

17.30–18.00 *Discussion*

Thursday, August 21, Biology and Geography Faculty

9.00–11.00 Practice

Advanced: *Maxim Shashkov, Ruslan Saifutdinov, Valeria Adamova, Elena Razenkova*

Species distribution modelling in R.

Beginners 1: *Anna Geras'kina*

MaxEnt.

Beginners 2: *Anastassiya Fedorova*

Using the iNaturalist app.

11.00–11.30 *Coffee break*

11.30–12.30 Advanced and Beginners 1. Lecture: *Elena Razenkova*

Model evaluation.

Beginners 2: Lecture: *Natalya Ivanova*

Projects in iNaturalist.

12.30–14.00 *Lunch*

14.00–16.00 Preparing projects

16.00–16.30 *Coffee break*

16.30–19.00 Presentation of projects

Friday, August 22, Biology and Geography Faculty

9.00–11.00 Workshop: *Konstantin Gongalsky, Elena Razenkova*
How to write a scientific paper.

11.00–11.30 *Coffee break*

11.30–13.30 Round table: *Pallieter De Smedt, Valeria Adamova, Elena Golovanova, Maxim Shashkov*
Invasions of soil invertebrates.

13.30–15.00 *Lunch*

15.30 Departure for Karkaraly biostation

Saturday, August 23

10.00–13.00 Field trip to the Lake Shaitankol

13.00–15.00 *Lunch*

15.00–19.00 Practice session: Methods for collecting soil invertebrates.
Earthworms: *Maxim Shashkov, Anna Geras'kina*
Spiders: *Artëm Sozontov, Evgeniya Plakhkina*
Woodlouse: *Pallieter De Smedt, Konstantin Gongalsky*

Sunday, August 24

10.00–12.00 Practice session: Methods for collecting soil invertebrates.
Earthworms: *Maxim Shashkov, Anna Geras'kina*
Spiders: *Artëm Sozontov, Evgeniya Plakhkina*
Woodlouse: *Pallieter De Smedt, Konstantin Gongalsky*

12.00–13.00 *Lunch*

13.30 Departure for Karaganda