



Bringing Together Selenga-Baikal Research 2014

International Conference. 1 to 3 October 2014.
Helmholtz Centre for Environmental Research, Leipzig, Germany.



Co-organized by:



Bringing Together Selenga Baikal Research 2014

Conference Program and Posters

Oral Presentations

Wednesday 1 October, 13:30 – 15:00

Session 1: Opening Lectures

Nikolay S. Kasimov

Faculty of Geography Lomonosov Moscow State University, Russia

Selenga-Baikal: Environmental, Geochemical and Hydrological Model of the Transboundary Basin

Petr Gunin & Sergei Bazha

A.N. Severtsov Institute of Ecology and Evolution

Russian Academy of Sciences, Moscow, Russia

Interaction of Ecosystems of the Selenga Basin and Environmental Risks in Central Asia

Christian Opp & Tatiana I. Abidueva

Department of Soil and Hydro-Geography, Faculty of Geography

Marburg University, Germany

Natural conditions, land use impacts and protection strategies of Lake Baikal - a retrospective overview

Wednesday 1 October, 15:00 – 15:30

Coffee Break

Wednesday 1 October, 15:30 – 17:45

Session 2: Climate, Land Use and Hydrology

Martin Kappas

Department of Cartography, GIS and Remote Sensing

Georg August University, Göttingen, Germany

Review of Long-term Satellite Data Series on Mongolia for the Study of Land Cover and Land Use

Lucas Menzel

Hydro-Geography and Climatology Unit, Institute of Geography

University of Heidelberg, Germany

Environmental Change and Hydrological Processes in the Steppe-Taiga Interface

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Marcus Malsy

Center for Environmental Systems Research (CESR)

University of Kassel, Germany

Large-scale modelling of water resources in the Selenga River

Jerker Jarsjö

Department of Physical Geography and Quaternary Geology

Stockholm University, Sweden

Hydro-Climatic Development and Implications for Water Resources in the Selenga River Basin

Endon Garmaev

Baikal Institute of Nature Management

Ulan Ude, Russia

Recommendations to Ensure the Hydroecological Safety in the Basin of the Selenga River

Wednesday 1 October, 18:30

Conference Dinner

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Thursday 2 October, 09:15 – 11:00

Session 3: Environmental Impacts and Water Quality

N.E. Kosheleva, Nikolay S. Kasimov, Petr D. Gunin, Sergei N. Bazha, Enkh-Amgalan Sandag, Olga Sorokina, Ivan Timofeev, Alexey Alexeenko, T. Kisselyeva

Faculty of Geography Lomonosov Moscow State University, Russia

Institute of Geography, Mongolian Academy of Sciences, Mongolia

A.N. Severtsov Institute of Ecology and Evolution, Russian Academy of Sciences, Moscow, Russia

Hot Spot Assessment: Cities of the Selenga River Basin

Mikhail Lychagin, Galina Shinkareva

Faculty of Geography

Lomonosov Moscow State University, Russia

Heavy Metal Fluxes in the Rivers of the Selenga Basin

Sergey Chalov, Anna Romanchenko

Faculty of Geography

Lomonosov Moscow State University, Russia

Linking Catchments to Rivers: Predicting Contaminant Loads due to Human Impact and Environmental Change in the Selenga River

Josephine Thorslund

Department of Physical Geography and Quaternary Geology

Stockholm University, Sweden

Geochemical Controls on the Partitioning and Hydrological Transport of Metals in the Non-Acidic Tuul River System

Thursday 2 October, 11:00 – 11:30

Coffee Break

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Thursday 2 October, 11:30 – 13:15

Session 4: Sediment Transport and Fluvial Morphology

Nikolay Alexeevsky, Ekaterina Promakhova
Faculty of Geography
Lomonosov Moscow State University, Russia

Source to Sink: Water and Sediment Transport in the Selenga-Baikal Catchment

Jan Pietron
Department of Physical Geography and Quaternary Geology
Stockholm University, Sweden

Modelling Sediment Transport Processes in Tuul River (Upper Selenga Basin)

Phillip Theuring
Department Aquatic Ecosystem Analysis and Management
Helmholtz Centre for Environmental Research, Magdeburg, Germany

Sediment Source Finger Printing in the Kharaa River Basin

Jeff Nittrouer
Department of Earth Science
Rice University, Houston, TX, USA

Sediment transport dynamics linked to geomorphological evolution of the Selenga River delta, Lake Baikal, Russia

Thursday 2 October, 13:15 – 14:00

Lunch Break

Thursday 2 October, 14:15 – 15:30

Session 5: Aquatic and Terrestrial Ecosystems

Enkh-Amgalan S, Dorjgotov D., Oyungerel J., Enkh-Taivan D., Batkhishig O.
Institute of Geography
Mongolian Academy of Sciences, Ulaanbaatar, Mongolia

Geocological Issues in the Selenga River Catchment

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Till Luckenbach

Department Bioanalytical Ecotoxicology

Helmholtz Centre for Environmental Research, Leipzig, Germany

Is the Endemic Fauna of Lake Baikal Affected by Global Change?

Anton Gurkov

Institute of Biology, Irkutsk State University, Russia

Can Gammarus lacustris Come to Lake Baikal Because of Climate Change: Comparative Study of Cellular Stress Response Systems between Baikal and Palearctic Amphipods

Thursday 2 October, 15:30 – 16:00

Coffee Break and Poster Session

Thursday 2 October, 16:00 – 18:00

Session 6: Innovative Monitoring Technologies

Yosef Akthman

Geodetic Engineering Laboratory

EPFL Lausanne, Switzerland

Leman-Baikal: Remote Sensing of Lakes Using an Ultralight Plane

Vincent Nouchi

Geodetic Engineering Laboratory

EPFL Lausanne, Switzerland

High-Resolution Mapping of Water Quality in the Selenga Delta from Remote Sensing

Almut Gerhardt

LimCo International GmbH, Constance, Germany

The Multispecies Freshwater Biomonitor: Applications in Ecotoxicology and Water Quality Biomonitoring

Konrad Siegfried

Department Environmental Microbiology

Helmholtz Centre for Environmental Research, Leipzig, Germany

Advantages of Biosensor Water Quality Monitoring

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Daniel Karthe
Department Aquatic Ecosystem Analysis and Management
Helmholtz Centre for Environmental Research, Magdeburg, Germany
Development of a Rapid Detection System for Waterborne Pathogens

Thursday 2 October, 18:00

Conclusions and Final Discussion

Friday 3 October

Individual Discussion and Sightseeing in Leipzig

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Poster Presentations

Gunsmaa Batbayar

Department Aquatic Ecosystem Analysis and Management
Helmholtz Center for Environmental Research, Magdeburg, Germany

Investigation of Water Quality in Northern Mongolia

Enkhbayar Dandar, Jesús Carrera Ramirez, Buyankhishig Nemer

Polytechnic University of Catalonia (UPC)

Barcelona, Spain

Evaluation of groundwater resources in the upper Tuul River basin, Mongolia

Christophe Delacourt, Nicolas le Dantec

Laboratoire Domaines Océaniques, Institut Universitaire Européen de la Mer (IUEM), Université de Bretagne Occidentale (UBO)

Plouzane, France

Morphological analysis of the upper reaches of the Kukuy Canyon derived from shallow bathymetry

Almut Gerhardt

LimCo International GmbH, Constance, Germany

Monitoring and diagnosis of pollution peaks in waste water treatment plants: case study

Sonja Heldt

Duisburg-Essen University, Germany

European Water Management in Mongolia - Drafting a RBMP for the Kharaa River Basin

Lucas Menzel

Hydro-Geography and Climatology Unit, Institute of Geography

University of Heidelberg, Germany

Assessing the Hydroclimatic Variability under Uncertainty in Northern Mongolia

Daniel Karthe

Department Aquatic Ecosystem Analysis and Management

Helmholtz Centre for Environmental Research, Magdeburg, Germany

Implementing Science-Based IWRM in a Data-Scarce River Basin: Experiences from the Kharaa, Mongolia

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Anna Romanchenko
Faculty of Geography
Lomonosov Moscow State University, Russia
Floods Impact on Pollutant Transport in the Selenga River

Galina Shinkareva
Faculty of Geography
Lomonosov Moscow State University, Russia
Geochemical Assessment of Deltaic Environment of Selenga River

Olga Sorokina
Faculty of Geography
Lomonosov Moscow State University, Russia
Environmental-Geochemical Map of Ulaanbaatar City: Methodology of Compiling and Perspectives of Applying

Ivan Timofeev, Igor Pavlov
Faculty of Geography Lomonosov Moscow State University, Russia
Geochemical Transformation of Soils Caused by Non-Ferric Ore Mining in the Selenga River Basin (Case Study of Zakamensk)