

# **NEESPI Regional Workshop: “Hydrological consequences of changes in climate and land cover across Northern Eurasia”**

and

## **Extended Project Meeting for NASA project: “Northern Eurasian Landscapes: Interactions among Humans, Hydrology, Land Cover and Land Use”**

*Venue: February, 7-8, 2012. State Hydrological Institute (SHI),  
23 Second Line, V.O., Saint Petersburg, Russia*



### **AGENDA:**

#### ***Tuesday, 7 February 2012 (NEESPI Workshop)***

10. 00 – 10. 05 **Vladimir Georgievsky, Director of the State Hydrological Institute (SHI), Saint Petersburg Russia:** Welcome from local host.

10:05 - 10. 15 **Alexander Shiklomanov, University of New Hampshire (UNH), USA:** Organization of workshop. Goals of the Meeting.

10. 15 – 10.30 **Pavel Groisman, NOAA National Climate Data Center (NCDC), USA** Northern Eurasia Earth Science Partnership Initiative in 2011-2012: An Update.

10.30 – 10.50 **Oleg Anisimov, SHI:** Modeling climate variability and change over Northern Eurasia: Assessment of available data and methods for impact studies. .

10.50 – 11.10 **Oleg Golovanov, Arctic and Antarctic Research Institute (AARI), Saint Petersburg, Russia; Mikhail Georgievsky, SHI:** Results of runoff simulations with AO GCMs and perspectives of their use for future projections.

11:10 - 11.30 **Sergey Yefimov, Voeikov Main Geophysical Laboratory (VMGO), Saint Petersburg, Russia:** Water balance components in context of future climate change: ensemble based computations with VMGO regional climate model.

11:30 – 12.:00 *Coffee Break*

12:00 – 12:20 **Alexander Shiklomanov, UNH:** Hydrological changes in the Northern Eurasia:

contemporary tendencies and future.

12:20 – 12:40 **Anastasia Pikaleva, VMGO:** Study of climate impacts on permafrost condition and methane emission.

12:40 – 13:00 **Nikolay Shiklomanov, George Washington University (GWU), Washington, DC, USA:** Change in permafrost across the Northern Eurasia and its possible effect on infrastructure.

*13:00 – 14:00 Lunch*

14:00 – 14:20 **Konstantin Tsitsenko, SHI:** Water and Land Resources of Central Asian Countries: Conditions and Use.

14:20 – 14:40 **Alexander Finaev, Institute of water problems, hydropower and ecology, Tajik Academy of Science, Tajikistan:** Hydroclimatic changes on small Tajik rivers: Varzob River case study.

14:40 – 15:00 **Alla Bildiug, Belorussian Hydrometeorological Service, Minsk, Belorussia:** Hydrological changes of rivers and lakes in Belorussia.

15:00 – 15:20 **Mikhail Markov and Elena Gurevich, SHI:** About regulating role of ice cover for runoff generation on northern rivers.

15:20 – 15:40 **Alexander Georgiadi, Institute of Geography, Russian Academy of Science (RAS), Moscow, Russia:** TBD.

*15:40 – 16:10 Coffee Break*

16:10 – 16:30 **Olga Semenova and Ludmila Lebedeva (SHI).** Dynamic of active layer and river runoff on small experimental watersheds in permafrost zone of Russia and Canada

16:30 – 16:50 **Igor Tokarev (Institute of Geoecology, St. Petersburg branch, Russian academy of Science).** Use of isotopic and geochemical tracers for studies of global change impacts on formation and quality of ground water.

16:50 – 17:10 **Mikhail Georgievsky, SHI:** Use of remote sensing data for snow cover in hydrometeorological research.

17:10 – 17:30 **Nikita Tananaev, Permafrost Institute of Permafrost SB RAS, Yakutsk, Russia:** River sediments in criolitozone: formation, movement, response to climate dynamics.

17:30 – 17:50 **A. Kiselev, Saint Petersburg Center of Ecological Security of the Russian Academy of Science.** Evaluation of runoff generation and its modeling for Naryn River using isotope and remote sensing data.

17:50 – 18:00 Discussion, final comments.

***Wednesday, 8 February, 2012***

10:00 – 10:20 **Olga Krankina, Oregon State University (OSU), USA:** Mapping of land cover and its changes across the Northern Eurasia using remote sensing data.

10:20 – 10:40. **Tamara Burenina and Alexander Onuchin, Sukachev Institute of Forest, Siberian Branch of the Russian Academy of Sciences, Krasnoyarsk, Russia:** Local and regional contrasts of hydrological functions of boreal forests under anthropogenic impacts.

10:40-11:30 **Alexander Shiklomanov, UNH:** Rapid Integrated Monitoring and Analysis System for the Northern Eurasia (RIMS NEESPI) applications and training.

*11:30 – 12.00 Coffee Break*

**Project Meeting: Northern Eurasian Landscapes: Interactions among Humans, Hydrology, Land Cover and Land Use**

12:00 - 12:10 **Alexander Shiklomanov, UNH:** Summary and some results of NASA project: Northern Eurasian Landscapes: Interactions Between Humans, Hydrology, Land Cover and Land Use.

12:10 – 13:00 Discussion: Change in climate, vegetation, land and water US across former USSR and their influences on hydrology (**lead by Alexander Shiklomanov, Olga Krankina**)

*13:00 – 14:00 Lunch*

14:00 – 15:40 **Discussion (lead by Nikolay Shiklomanov, Oleg Anisimov):** Change in climate, vegetation, land and water US across former USSR and their influences on hydrology.

*15:40 – 16:10 Coffee Break*

16:10 – 18:00 Preparation of brief summarizing Report of the Meeting.

18:00 - **Adjourn**