



## IX<sup>th</sup> INTERNATIONAL SYMPOSIUM

### "C/H<sub>2</sub>O/ENERGY BALANCE AND CLIMATE OVER THE BOREAL AND ARCTIC REGIONS WITH SPECIAL EMPHASIS ON EASTERN EURASIA"

**dedicated to the 25th anniversary of the joint Russian-Japanese research on climate change in the cryolithozone**

**1-4 November 2016, Yakutsk, Russia**

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### FINAL CIRCULAR

The territory of the North-East of Russia plays an important role in the climate system of the planet. It is a great reserve of the biosphere and performs ecological functions at the global scale. Modern observations and models suggest that under global climate change the temperature increase will be greatest in this region, and the response of cryolithozone could be significant. The resulting changes in water, nitrogen, energy, and carbon cycles may have positive feedbacks which could further enhance the global warming.

In 2016 we will celebrate the 25th anniversary of the Russian-Japanese research collaboration on global change studies in Russian permafrost.

In the vast permafrost region of North-East Russia multilateral international scientific cooperation has been developed during 25 years on the problem of mitigating the effects of global climate change. In the framework of over 40 international and intergovernmental scientific and educational projects (with 14 countries), a unique scientific system "SakhaFluxNet" is established to parameterize the components of permafrost ecosystems using modern innovative measurement and analysis techniques. This extensive network of monitoring stations in the North-East is unique, and measured biogeochemical and climatic parameters of the ecosystem are beyond competition in the Russian Federation. Monitoring stations are simultaneously included in the international scientific networks GlobalCarbon, EuroFlux, INTERACT, PAGE21, ScanNet and AsiaFlux. The unique network of scientific stations "SakhaFluxNet" covers all the main bioclimatic zones in North-East Russia – tundra, forest-tundra and taiga. It includes the infrastructure of fully equipped research stations – "Spasskaya Pad", "Tungulu" and "Neleger" in Central Yakutia, "Elgeei" in South-Eastern Yakutia, "Chokurdakh" and "Kodac" in the tundra zone of North-Eastern Yakutia.

Over 80 symposiums and meetings abroad, more than 10 international conferences in Russia and abroad were carried out, and more than 20 thematic special issues (including 16 abroad) were published on the results of our long-term studies.

The symposium will be attended by ecologists, biologists, climatologists and other scientists and experts from Russia and foreign countries. This is an excellent opportunity of direct communication among scientists and discussion on a wide range of problems.

## **THE ORGANIZERS AND THE SPONSORS OF THE SYMPOSIUM:**

- The Government of the Republic of Sakha (Yakutia);
- Institute for Biological Problems of Cryolithozone, SB RAS (Yakutsk, Russia);
- Melnikov Permafrost Institute, SB RAS (Yakutsk, Russia);
- North-Eastern Federal University named after M. K. Ammosov (Yakutsk, Russia);
- Hokkaido University, Sapporo, Japan;
- Nagoya University, Nagoya, Japan;
- NIPR-ROIS, National Institute of Polar Research Research Organization of Information and Systems, Japan;
- East Russia-Japan Expert Education Consortium, RJE3, Japan;
- Scientific Project "COPERA: C budget of Ecosystems, Cities and Villages on Permafrost in the eastern Russian Arctic", Japan;
- Vrije University Amsterdam, Amsterdam, the Netherlands;
- Wageningen University & Research Centre, Wageningen, the Netherlands;
- University of Zurich, Zurich, Switzerland.

## **THE OBJECTIVES OF THE SYMPOSIUM:**

- Presentation and discussion of research results obtained on the territory of permafrost;
- Discussion of further plans on global climate change studies.

## **THE SYMPOSIUM WILL BE HELD IN THE FOLLOWING FIELDS:**

- Global change of climate;
- Biodiversity;
- Migration, transformation and conservation of substances;
- New projects on global climate change.

## **MAIN SECTIONS:**

### **1) Russian-Japanese studies: past, present and future**

Moderators: Sugimoto A.  
Hiyama T.  
Maximov T. Chr.

### **2) Permafrost ecosystems and climate change**

Moderators: Zheleznyak M. N.  
Iijima Y.  
Desyatkin R. V.

### **3) Global climate change and biodiversity**

Moderators: Solomonov N. G.  
Ohta T.  
Schaepman-Strub G.

### **4) Migration, transformation and conservation of substances**

Moderators: Dolman A. J.  
Sugimoto A.  
Maximov T. Chr.

## **SYMPOSIUM PROGRAM COMMITTEE:**

**Nikita SOLOMONOV**, Corresponding member of RAS, Professor, NEFU, IBPC SB RAS, Russia;

**Mikhail LEBEDEV**, Corresponding member of RAS, Professor, YSC SB RAS, Russia;

**Evgenia MIKHAILOVA**, Professor, Doctor of pedagogical sciences, Rector of North-Eastern Federal University, Russia – the Chairman of the Program Committee;

**Nikolay DYAKONOV**, Head, Representative office of the Ministry of Foreign Affairs of Russian Federation in Yakutsk;

**Vladimir VASILYEV**, Minister, Ministry for Federative affairs and External relations of the Sakha Republic (Yakutia);  
**Pavel REMIGAILO**, Candidate of biological sciences, Director of IBPC SB RAS;  
**Mikhail ZHELEZNYAK**, Doctor of geological and mineralogical sciences, Director of Melnikov Permafrost Institute, SB RAS;  
**Roman DESYATKIN**, Doctor of biological sciences, IBPC SB RAS, Russia;  
**Trofim MAXIMOV**, Professor, Doctor of biological sciences, IBPC SB RAS, NEFU, Russia;  
**Albertus DOLMAN**, Professor, Dr., Vrije University Amsterdam, the Netherlands;  
**Jacobus van HUISSTEDEN**, Associate professor, Dr., Vrije University Amsterdam, the Netherlands;  
**Takeshi OHTA**, Professor, Nagoya University, Japan;  
**Atsuko SUGIMOTO**, Professor, Hokkaido University, Japan;  
**Tetsuya HIYAMA**, Dr., Nagoya University, Japan;  
**Yuji KODAMA**, Dr., National Institute of Polar Research, Japan;  
**Yojiro MATSUURA**, Dr., Forestry and Forest Products Research Institute, Japan;  
**Gabriela SCHAEPMAN-STRUB**, Dr., University of Zurich, Switzerland;  
**Eddy MOORS**, Professor, Dr.Ir., Wageningen University, the Netherlands;  
**Monique HEIJMANS**, Dr.Ir., Wageningen University, the Netherlands.

#### **SYMPOSIUM ORGANIZING COMMITTEE:**

**Nikita SOLOMONOV**, Corresponding member of RAS, Professor, NEFU, IBPC SB RAS, Russia - Chairman of Organizing Committee;  
**Mikhail ZHELEZNYAK**, Doctor of geological and mineralogical sciences, Director of Melnikov Permafrost Institute SB RAS, – Deputy of Chairman of Organizing Committee;  
**Trofim MAXIMOV**, Professor of Hokkaido University, Doctor of biological sciences, IBPC SB RAS, NEFU, Russia – member of Organizing Committee;  
**Alexander FEDOROV**, Candidate of geography sciences, head of Laboratory of Permafrost Institute SB RAS – member of Organizing Committee;  
**Alexander ISAEV**, Doctor of biological sciences, head of Forestry Laboratory of IBPC SB RAS – member of Organizing Committee;  
**Alexander KONONOV**, Candidate of biological sciences, researcher of IBPC SB RAS, NEFU – responsible secretary of Organizing Committee.

#### **KEY DATES:**

Registration has been prolonged till **July 31, 2016**.  
Extended abstracts must be sent until **August 31, 2016**.  
Languages of the symposium are Russian and English with synchronic interpretation.

Please fill the following registration form and send to e-mail **t.c.maximov@ibpc.ysn.ru** no later than **July 31, 2016**:

- Name, Surname, degree, affiliation, position, e-mail address and telephone (with country code) of author/speaker;
- Title of the presentation;
- Full name(s) of co-author(s), if applicable;
- Mailing address of author (and co-authors, if applicable);
- Section name;
- Form of presentation: Oral or Poster.

The text of the extended abstract written in Russian and English must be in Microsoft Word format, maximum 4 pages, including figures and tables, A4 paper size, Times New Roman font, 12 pt font size, 1.5 pt spacing, 2.5 cm all page margins.

Abstracts should be sent to IBPC SB RAS e-mail [t.c.maximov@ibpc.ysn.ru](mailto:t.c.maximov@ibpc.ysn.ru) no later than **August 31, 2016**.

**NOTE!** Extended abstracts (4 pages) will be published before the Symposium in advance.

#### **REGISTRATION FEES:**

**Due to unexpected difficulties in the symposium funding, we regrettably have to inform that the registration fee will be changed as follows:**

For participants from Russian Federation and CIS countries – **2000 RUB**, for foreigners – **200 USD**.

Fees are for: 1) synchronic interpretation; 2) transportation to/from the airport; 3) the rental expenditures; 4) coffee breaks.

The fee will be accepted during the registration of participants in Yakutsk. Students participate free of charge.

#### **PRELIMINARY INFORMATION ABOUT ACCOMMODATION AND TRANSPORTATION:**

The cost of Moscow-Yakutsk round ticket is about 30-45 thous. RUB depending on Air Company.

The cost of hotel in Yakutsk is 3 000 RUB per day and more depending on the Hotel class.

#### **EXCURSIONS (optional fee-based tours):**

- 1) Mammoth Museum, NEFU (120 RUB).
- 2) “Kingdom of Permafrost” entertainment complex (500 RUB).
- 3) “Spasskaya Pad” experimental forest station (700 RUB, including lunch-box).

#### **YAKUTIA IN NOVEMBER:**

Air temperature in early November is usually minus 10-15°C, with a little snowfall, not so windy. We recommend having warm enough clothes and shoes.

In Yakutsk you can visit the great National Drama Theatre, a unique exhibition "Treasury of the Republic of Sakha (Yakutia)", the National Art Museum of Sakha Republic, the ethnographic complexes "Chochur-Muran" and "Atlasovs' family ethno-mansion house", "Old city" historical and architectural complex (a quarter in the center of our city, where old buildings represent the appearance of ancient Yakutsk). Many restaurants and cafes offer you tasty dishes of the Yakut cuisine – delicious “stroganina” made of frozen fresh-caught fish, young horse and reindeer meat, Yakutian kumys (traditional low-alcohol Yakut’s drink made of fermented mare's milk).

#### **CONTACTS:**

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Dr. Trofim MAXIMOV

Web-site of Symposium: <http://ibpc.ysn.ru/?p=1278#eng>