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IC BEST (NEFU)



2nd International Conference
“Global Warming and the Human-Nature Dimension in Siberia: Social Adaptation to the Changes of the Terrestrial Ecosystem, with an Emphasis on Water Environments”

to be held and co-organized with the
 7th Annual International Workshop
“C/H₂O/Energy balance and climate over boreal and arctic regions with special emphasis on eastern Eurasia”

8-11 October, 2013
 Yakutsk, Russia

Dear Friends and Colleagues!

Global warming will likely transform Siberian environments. Early evidence indicates that carbon and hydrologic cycles are undergoing rapid change, with potentially severe impacts on Siberian flora and fauna. Human populations, which have adapted to great changes in social structure and environment in the past, will be forced to adapt again, but in this case to an unprecedented sequence of cascading environmental changes.

In 2013 we commemorate 60 years since starting field experimental works at the scientific station "Spasskaya Pad" of IBPC SD RAS. At present, the station is rightfully considered to be a regional research outpost on the study of environmental and global climate changes in the cryolithozone.

This conference will examine three aspects of climate-related environmental change:

- 1) current and likely future variations in water and carbon cycles;
- 2) ongoing field observations and modeling studies of the effects of carbon and hydrologic variability in Eastern Siberian landscapes, and key feedbacks, exchanges and driving forces associated with these effects;
- 3) the distinct social-economic impact of climate change on multi-ethnic Siberian societies, and their potential capabilities for adaptation to projected changes in climate and terrestrial ecosystems.

Key themes

- a) Physical and plant physiological processes of C/H₂O/Energy cycles in Siberian ecosystems;
- b) Forest and tundra ecosystem structure related to C/H₂O/Energy cycles;
- c) Permafrost / cold climate processes and their impacts on C/H₂O/Energy cycles;
- d) Usage of satellite remote sensing techniques and the development of C/H₂O/Energy cycle models;
- e) Interaction between wild/domesticated animals and terrestrial vegetation;
- f) Vulnerabilities of landscapes, human subsistence systems, and infrastructures in permafrost areas;
- g) Ethnographic accounts of human-nature relations in conjunction with climate change

- h) Local knowledge of, adaptations to, and policies for responding to the changing climate;
- i) Research status, cooperative arrangements, and plans for the future.

Sessions:

- S1 – Plenary session – Global features of climate changes in the northern ecosystems
- S2 – Human-nature interactions in a changing climate
- S3 – Climatic responses of carbon, water and energy cycles in the northern ecosystems
- S4 – Biological processes during climatic changes
- S5 – Remote sensing & modeling for eco-climatic monitoring
- S6 – Climatic vulnerabilities of permafrost

Schedule - 8-11 October 2013

Tue 8 October 2013 – Plenary meeting

- Conference Hall, National Academy of Sciences RS(Ya)
 - 08:30 – Registration
 - 09:30 – Opening ceremony
 - 10:00-13:00 – Plenary session S1
 - 13:00-14:00 – Lunch
 - 14:00-15:30 – Plenary session S1
 - 15:45-17:50 – Keynote session
 - 19:00-21:00 – Reception (Restaurant of Yakutian Food "Muus Khaya")

Wed 9 October 2013 – Sessions S2 & S3

- Conference Halls of MIN (S2) & IBPC (S3)
 - 08:30 – Registration
 - 09:00-13:00 – Sessions S2 (in MIN) & S3 (in IBPC)
 - 13:00-14:00 – Lunch
 - 14:00-16:40 – Sessions S2 (in MIN) & S3 (in IBPC)
 - 16:45-18:00 – Poster session (in IBPC)

Thu 10 October 2013 – Sessions S4, S5 & S6

- Conference Halls of IBPC (S4) & MIN (S5 & S6)
 - 08:30 – Registration
 - 09:00-13:00 – Sessions S4 (in IBPC) & S5 (in MIN)
 - 13:00-14:00 – Lunch
 - 14:00-17:35 – Sessions S4 (in IBPC) & S6 (in MIN)
 - 17:00 – General Discussions by sessions
 - 18:00 – Closing ceremony

Fri 11 October 2013 – Excursion:

- Visit "Spasskaya pad" Station with Lunch.
- 10:00 – Buses starts from IBPC
- 19:00 – Buses comes back to Yakutsk

Organizing committee

Trofim MAXIMOV, IBPC & NEFU, RUSSIA
Takeshi OHTA, GSBS, NU, JAPAN
Tetsuya HIYAMA, RIHN, JAPAN
Atsuko SUGIMOTO, FEES, HU, JAPAN
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Evgeniya MIKHAYLOVA, NEFU, RUSSIA
Vanda IGNATIEVA, IHRNIPB, RUSSIA
Sardana BOYAKOVA, IHRNIPB, RUSSIA
Han DOLMAN, VUA, THE NETHERLANDS
Eddy MOORS, WUR, THE NETHERLANDS
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Contact persons for the Conference

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Travel and accommodation

All organizations are located in Yakutsk downtown and can be reached from Yakutsk International Airport, followed by local buses No. 4 and 14 in Yakutsk or by taxi.

Addresses (see the map on the flipside):

- 1) National Academy of Sciences of Republic of Sakha (Yakutia):**
33, Lenin Ave., Yakutsk, Russia.
- 2) Institute for Biological Problems of Cryolithozone (IBPC):**
41, Lenin Ave., Yakutsk, Russia.
- 3) Mining Institute of the North (MIN):**
43, Lenin Ave., Yakutsk, Russia.
- 4) Reception: Restaurant of Yakutian Food "Muus-Khaya"**
16, Oyunskogo str., Yakutsk, Russia.
- 5) Institute of Humanity Research and of the North Indigenous People Problems (INIPB):**
1, Petrovskogo Str., Yakutsk, Russia