

Second circular

1st 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

Kyoto, Japan, 7-10 March, 2012

To be held and co-organized with the

6th Annual International Workshop

C/H₂O/Energy balance and climate over boreal and arctic regions with special emphasis on eastern Eurasia

Purpose

Global warming will likely transform Siberian environments. Our long-term joint studies from 1992 indicate that carbon and hydrologic cycles are undergoing rapid change, with potentially grave 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. The RIHN research project “Global Warming and the Human-Nature Dimension in Siberia” uses multiple satellite and surface monitoring systems to track changes in carbon and hydrologic cycles in the terrestrial ecosystems, in order to improve social adaptability to ecological change in Siberia.

This conference will examine three aspects of climate-related environmental change observed in the project research: 1) current and likely future variation in water and carbon cycles; 2) ongoing field observation of the effects of carbon and hydrologic variability in Eastern Siberian landscapes, and key exchanges or driving forces associated with these effects; and 3) the distinct social economies of multi-ethnic Siberian societies, and their potential capabilities for adaptations to predicted changes in climate and terrestrial ecosystems.

Contributions on these three aspects, or on the following key themes, are welcomed.

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

Schedule

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|-------------|----------------|-----------------------------|
| Conference: | 7-9 March 2012 | (Lecture Hall, RIHN, Kyoto) |
| Reception: | 7 March 2012 | (Dining Hall, RIHN, Kyoto) |
| Excursion: | 10 March | around Kyoto city |

Proceedings

Proceedings of the conference will be published. For the proceedings, you are requested to prepare an extended abstract (max. 4 pages) which should be submitted by e-mail to [<Siberia2012@chikyu.ac.jp>](mailto:Siberia2012@chikyu.ac.jp), **no later than March 1, 2012.**

Presentation Instructions

Oral presentations:

All oral presentations should be given in English.

All oral presentations should be less than 20 minutes in length.

A laptop computer will be provided for oral presentation. Supported presentation file formats include: MS PowerPoint and Adobe Acrobat PDF. If you want to use your own computer, please check the compatibility with the provided projector before the session begins.

Poster presentations:

All poster presentations should be given in English.

Poster size is 90 cm (Width) x 120 cm (Height).

Core time of poster presentation is 30 minutes from the end of lunch time.

Fee

Conference: ¥ 10,000 Japanese Yen (including coffee, tea, 3 lunches and a reception)

Excursion: ¥ 5,000 Japanese Yen (including transportation fee and simple lunch (Japanese Bento))

Travel and accommodation

RIHN can be reached from Kansai International Airport or Osaka International Airport.

From Kansai International Airport (KIX) to Kyoto station, it takes approximately 75 minutes by the JR Airport Express Haruka (<http://www.kansai-airport.or.jp/en/access/index.html>).

From Osaka (Itami) International Airport (ITM) to Kyoto station, it is easily accessible by the Osaka Airport Limousine (http://www.okkbus.co.jp/en/timetable/itm/t_kyt.html).

From Kyoto station, take the Karasuma line to Kokusaikaikan Station (Kyoto International Conference Hall), and transfer to Kyoto Bus. From Kokusaikaikan Station, take bus No. 40 or 50 to Chikyuken-mae.

For detailed, please access the following website; http://www.chikyu.ac.jp/rihn_e/access/index.html

Accommodations will be arranged except for Japanese participants.

Organizing committee

HIYAMA Tetsuya	RIHN	FEDOROV Alexander	MPI
FUJIWARA Junko	RIHN	MAXIMOV Trofim	IBPC
OHTA Takeshi	GSBS, Nagoya University	IGNATIEVA Vanda	IHIPN
YAMAGUCHI Yasushi	GSES, Nagoya University	DOLMAN Han	VU University Amsterdam (VUA)
TAKAKURA Hiroki	CNEAS, Tohoku University	MOORS Eddy	Wageningen University (WU)

Preliminary Program of 1st International Conference on Global Warming and the Human-Nature Dimension in Siberia: Social Adaptation to the Changes of the Terrestrial Ecosystem, with an Emphasis on Water Environments

Wednesday 7 March

Location: Lecture Hall, RIHN, Kyoto

- 09:00 Registration
- 09:30 Opening ceremony
- 09:50 **[Session 1] Water and carbon balance at the plot scale**
- 12:35 Lunch and Poster presentations
- 14:05 **[Session 2] Water and carbon cycles at continental scales**
- 16:05 **Discussion**, closure at 16:30
- 18:30 Reception

Thursday 8 March

Location: Lecture Hall, RIHN, Kyoto

- 09:00 **[Session 3] Permafrost degradation and CH₄ emission**
- 11:45 Lunch and Poster presentations
- 13:15 **[Session 4] Permafrost landscape and groundwater regime**
- 15:10 **[Session 5] Flood-induced hazards and benefits**
- 16:50 **Discussion**, closure at 17:15

Friday 9 March

Location: Lecture Hall, RIHN, Kyoto

- 09:00 **[Session 6] Wild-and domestic animals in Arctic region**
- 10:55 **[Session 7] Adaptation to climate change**
- 12:10 **Discussion**
- 12:35 Lunch and Poster presentations
- 14:05 **General discussion**
- 15:15 Closing ceremony, closure at 15:30