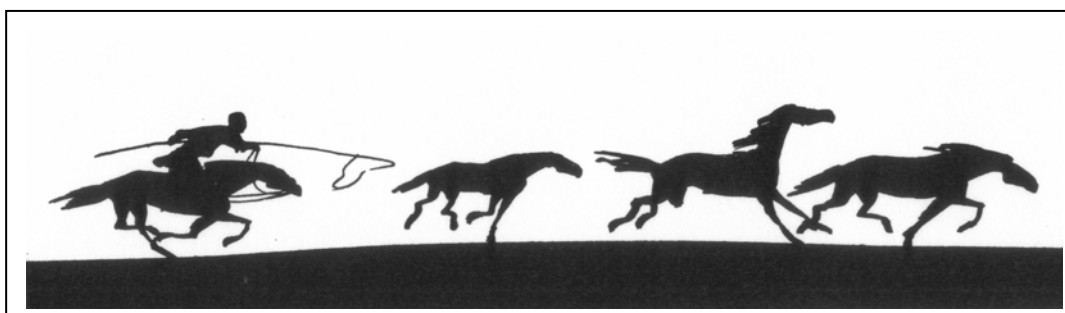


November 28-29, 2006

# 2006 International Workshop on Terrestrial Change in Mongolia

- Joint Workshop of IORGC, MAVEX, RAISE and Other Projects -

## Program



28-29 November 2006,  
JAMSTEC Tokyo Office, Tokyo, Japan

[<http://www.jamstec.go.jp/jamstec-e/index-e.html>]

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## November 28 (Tuesday)

### Registration 9:30 am

#### **Opening address 10:00 am – 10:10 am**

- AZZAYA, Dolgorsuren (IMH) and OHATA, Tetsuo (IORGC JM) -

#### **Session 1 10:10 am - 11:30 am (Chairperson: IJIMA, Y.)**

- 1.1 Difference of carbon dynamics of soil carbonate under vegetation sequence, Mongolia  
- ASANO, Maki (GSLES UTs) · TAMURA, Kenji (GSLES UTs), MAEJIMA, Yuji (NIAS) · MATSUZAKI, Hiroyuki (DNEM UTy) · FUJIWARA, Hideshi (NIAS) · HIGASHI, Teruo (GSLES UTs) -
- 1.2 Physico-chemical characteristics of soils and their secular changes under different land use in Kherlenbayan-Ulaan  
- TAMURA, Kenji (GSLES UTs) · HOSHINO, Aki<sup>1</sup>, ASANO Maki · WUYUNNA, N. (DNU) · FUJIMAKI, Haruyuki (GSLES UTs) · HIGASHI, Teruo (GSLES UTs) -
- 1.3 Field measurement of infiltration rates using an oscillating nozzle rainfall simulator in Mongolia  
- KATO, Hiroaki (GSLES UTs) · ONDA, Yuichi (GSLES UTs) · TANAKA, Yukiya (KHU) · DAVAA, Gombo (IMH) · OYUNBAATAR, Dambaravjaa (IMH) -
- 1.4 Importance of little depositional island in upper stream of Sharilj river for conservation of Buir lake ecosystem  
- DAVAA, Gombo (IMH) and PUREVDAGVA, Khalzen (IMH) -

### *Break 11:30 am – 11:40 am*

#### **Session 2 11:40 am – 1:00 pm (Chairperson: DAVAA, D.)**

- 2.1 Altitudinal distribution of snow water equivalent in the Tuul river basin, Mongolia, 2002-2006  
- SUGIURA, Konosuke (IORGC JM) · KADOTA, Tsutomu (IORGC JM) · ZHANG, Yinsheng (IORGC JM) · ISHIKAWA, Mamoru (FEES HoU/IORGC JM) · IJIMA, Yoshihiro (IORGC JM) · YAMAZAKI, Takeshi (ToU/IORGC JM) · PUREVDAGVA, Khalzan (IMH) · DAVAA, Gombo (IMH) · OHATA, Tetsuo (IORGC JM) -
- 2.2 Thermal symbiotic system of permafrost and forest, northeast of Mongolia  
- ISHIKAWA, Mamoru (FEES HoU/IORGC JM) · IJIMA, Yoshihiro (IORGC JM) · ZHANG, Yinsheng (IORGC JM) · KADOTA, Tsutomu (IORGC JM) · Battogtokh, D. (IG) · Sharkhuu, N. (IG) · Ohata Tetsuo (IORGC JM) -
- 2.3 Extension of larch forest and its meteorological condition at the continuous region of permafrost in the northern part of Mongolia  
- TAKEDA, Kazuo (OUAVM) · TSUJI, Osamu (OUAVM) · TORITA, Hiroyuki (OUAVM) -
- 2.4 Features and mapping of permafrost distribution in Ulaanbaatar area, Mongolia  
- BATTOGTOKH, Dorjgotov (IG) · JAMBALJAV, Ja. (IG) · DASHTSEREN, A. (IORGC JM) · Sharkhuu, N. (IORGC JM) · ISHIKAWA, Mamoru (FEES HoU/IORGC JM) · ZHANG, Ya. (IORGC JM) · IJIMA, Yoshihiro (IORGC JM) · KADOTA, Tsutomu (IORGC JM) · OHATA, Tetsuo (IORGC JM) -

### Luncheon 1:00 pm - 2:00 pm

#### **Session 3 2:00 pm - 4:00 pm (Chairperson: ADYASUREN, T.)**

- 3.1 Mongolian vegetation changes in the last two decades  
- HIRANO, Akira (JIRCAS) · KOMIYAMA, Hiroshi (JIRCAS) · TORIYAMA, Kazunobu (JIRCAS) -
- 3.2 Origin of water vapor in arid Asia simulated by regional climate model with simplified isotope process  
- SATO, Tomonori (CCSR UTy) · TSUJIMURA, Maki (GSLES UTs) · YAMANAKA, Tsutomu (GSLES UTs) · KIMURA, Fujio (GSLES UTs) · IWASAKI, Hiroyuki (GU) · SUGITA, Michiaki (GSLES UTs) -
- 3.3 Soil moisture pulses drive the seasonal variability of steppe productivity in Mongolia

- LI , Sheng-Gong (JST) ·ASANUMA Jun (GSLES UTs)·KOTANI Ayumi (JST)·DAVAA, Gombo (IMH)·OYUNBAATAR, Dambaravjaa (IMH) ·SUGITA, Michiaki (GSLES UTs) -
- 3.4 Influence of grazing on vegetation, surface energy balance and water balance over the Mongolian steppe
  - KATO, Hidekazu (GSLES UTs) ·MARIKO, Shigeru (GSLES UTs)·URANO, Tadaaki (GSLES UTs)·SUIGTA Michiaki (GSLES UTs) -
- 3.5 A seesaw pattern of summertime precipitation over North Eurasia and associated Rossby waves
  - IWAO, Koki (CCSR-UTy)·TAKAHASHI, Masaaki (CCSR-UTy) -
- 3.6 Inter- and intra-seasonal variation in transpiration and stem growth in larch forest slope of northern Mongolia
  - IJIMA, Yoshihiro (IORGC JM)·BATTOGTOKH, Dorjgotov (IG)·KADOTA Tsutomu (IORGC JM)·Ohata Tetsuo (IORGC JM) -

**Break 4:00 pm – 4:10 pm**

**Session 4 4:10 pm - 5:30 pm (Chairperson: ASANUMA, J.)**

- 4.1 Assessment of regional land cover fractions of Mongolian semiarid and arid area based on multi channel radiance data
  - BYAMBAKHUU, Ishgaldan (GSLES UTs) ·SUGITA, Michiaki (GSLES UTs)·MATSUSHIMA, Dai (CIT)·ADYASUREN, Tsokhio (EERIEA) -
- 4.2 Observations of sparsely vegetated areas using optical sensor
  - MURAMATSU, Kanako (NWU)·XIONG, Yan (NWU)·FURUMI, Shinobu (NWU)·KAIHOTSU, Ichirow (GSIAS HiU) -
- 4.3 The agroclimatic resource change in Mongolia
  - AZZAYA, Dolgorsuren (IMH)·GANTSETSEG, B. (IMH)·MUNKHZUL, D. (IMH) -
- 4.4 Impacts of global change to the environment and development in Mongolia
  - ADYASUREN, Tsokhio (EERIEA)·BORJIGDKHAN (EERIEA) -

**Friendship party (party fee per person: 3,000 JPY) 5:45 pm – 7:30 pm**

**November 29 (Wednesday)**

**Registration 9:15 am**

**Session 5 9:30 am -11:10 am (Chairperson: AZZAYA, M.)**

- 5.1 Floods in Mongolia
  - OYUNBAATAR, Dambaravjaa (IMH) -
- 5.2 A multi-tracer approach to characterizing hydrological process in Kherlen river basin, eastern Mongolia
  - TSUJIMURA, Maki (GSLES UTs) -
- 5.3 Parameterization of heat transfer between the land surface and the atmosphere in Mongolian steppe
  - KOTANI, Ayumi (JST)·SUGITA, Michiaki (GSLES UTs) -
- 5.4 Retrieval of the surface bulk parameters over Mongolian steppe and forest using a heat budget model incorporating remote sensing data
  - MATSUSHIMA, Dai (CIT) -
- 5.5 Factors predominant to affect heat/water fluxes
  - ZHANG , Yinsheng (IORGC JM)·KADOTA Tsutomu (IORGC JM)·Ohata Tetsuo (IORGC JM)·OYUNBAATAR, Dambaravjaa (IMH) -

**Break 11:10 am - 11:20 am**

**Session 6 11:20 am - 12:40 am (Chairperson: SUGITA, M.)**

*Project summary reports and general discussion*

- 6.1 Results of the AMPEX project  
- KAIHOTSU, Ichirow (GSIAS HiU)
- 6.2 Summary on the research by IORGC in the past 5 years and future  
- OHATA, Tetsuo (IORGC JM) -
- 6.3 An overview of the Rangelands Atmosphere-Hydrosphere-Biosphere Interaction Study Experiment in Northeastern Asia (RAISE)  
- SUGITA, Michiaki (GSLES UTs) · ASANUMA Jun (GSLES UTs) · TSUJIMURA, Maki (GSLES UTs) · MARIKO, Shigeru (GSLES UTs) · LU, Minjiao (NUT) · KIMURA, Fujio (GSLES UTs) · AZZAYA, Dolgorsuren (IMH) · ADYASUREN, Tsokhio (EERIEA) -
- 6.4 Introduction to the post-RAISE research activities  
- ASANUMA, Jun (GSLES UTs) -

**Closing address 12:40 am - 12:45 am**

- KAIHOTSU, Ichirow (GSIAS HiU) -

**Luncheon 0:45 pm - 2:00 pm**

**Business meeting 2:00 pm - 3:30 pm**

Meeting of IORGC JAMSTEC

**Presentation time: 20 min/person (speaking: 15 min, discussion: 5 min)**

**Workshop place:**

JAMSTEC Tokyo Office 10<sup>th</sup> Floor, Hibiya Central Bld., 2-9 Nishi-Shinbashi 1-chome, Minato-ku, Tokyo, 105-0003  
Phone: +81-3-5157-3900, FAX: +81-3-5157-3903  
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[[http://www.narita-airport.or.jp/airport\\_e/index.html](http://www.narita-airport.or.jp/airport_e/index.html)]

**Forest Hongo Hotel (Staying hotel for Mongolian visitors):**

Phone +81-3-3813-4408, Fax +81-3-3813-4409  
[<http://www.forest-hongo.com/>]

Notes

CCSR UTy: Center for Climate System Research, Univ. of Tokyo  
CIT: Chiba Institute of Technology  
DNEM UTy: Department of Nuclear Engineering and Management, The University of Tokyo  
DNU: Dalian Nationalities University  
EERIEA: Environmental Education and Research Institute ECO ASIA  
FEES HoU: Faculty of Environmental Earth Science, Hokkaido University  
GU: Gunma University  
GSIAS: Graduate School of Integrated Arts and Sciences  
GSLES UTs: Graduate School of Life and Environmental Sciences, University of Tsukuba  
HiU: Hiroshima University  
HoU: Hokkaido University  
IG: Institute of Geography of the Mongolian Academy of Sciences  
IGI: Institute of Geology of the Mongolian Academy of Sciences  
IMH: Institute of Meteorology and Hydrology  
IORGC: Institute of Observational Research for Global Change  
JIRCAS: Japan International Research Center for Agricultural Sciences  
JM: JAMSTEC (Japan Agency for Marine-Earth Science and Technology)  
JST: Japan Science and Technology Corporation  
KHU: Kyung Hee University  
NIAS: National Institute for Agro-Environmental Sciences  
NUT: Nagaoka Institute of Technology  
NWU: Nara Woman's University  
OUAVM: Obihiro University of Agriculture and Veterinary Medicine  
ToU: Tohoku University