

First SELIS International Workshop

## **Eco-Climate Dynamics in Eurasia / Monsoon Asia**

26 (Mon.) – 27 (Tue.) January 2009, Symposion Hall, Nagoya University, Japan

[ 26 (Mon.) January 2009 ]

9:30 – 10:00 <Registration>

### **Session 1: Introduction**

(Chair: Tetsuya Hiyama)

10:00 – 10:20 Shin-ichi Yamamoto (Vice-President for Research, Nagoya University, Japan) : *Welcome speech*  
Research Activity of Nagoya University

10:20 – 10:40 Tetsuzo Yasunari (Nagoya University, Japan) : *Key-note speech*

Toward Understanding the Dynamics of Continental to Global Scale Eco-Climate System

10:40 – 10:50 <Group Photo>

### **Session 2: Ocean - Land - Atmosphere Interactions in Eurasia / Monsoon Asia**

(Chair: Hiroshi Kanzawa)

10:50 – 11:30 Yongkang Xue (University of California, Los Angeles, USA) : *Key-note speech*  
Spatial and Temporal Characteristics of Monsoon/Vegetation Interactions

11:30 – 12:00 Jun Matsumoto (Tokyo Metropolitan University, Japan)

12:00 – 13:30 <Lunch>

13:30 – 14:00 Yuanbo Liu (Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences, China)  
Non-Parametric Approach for Estimating Terrestrial Evaporation: Global Validation

14:00 – 14:30 Masatake E. Hori (Nagoya University, Japan)

Recent Trend and Future Projection of the Winter Monsoon over Northeast Asia

### **Session 3: Role of Vegetation in the Climate System**

(Chair: Chisato Takenaka)

14:30 – 15:10 Pavel Kabat (Wageningen University, The Netherlands) : *Key-note speech*

15:10 – 15:40 Kazuyuki Yagi (National Institute for Agro-Environmental Sciences, Japan)  
Greenhouse Gas Emissions from Agricultural Land Use in Monsoon Asia

15:40 – 16:00 <Coffee Break> and <Poster Session>

16:00 – 16:30 Eddy Moors (Wageningen University, The Netherlands)  
Vegetation Feedbacks in the Regional Climate System

16:30 – 17:00 Rikie Suzuki (Frontier Research Center for Global Change, JAMSTEC, Japan)  
Satellite-Detected Vegetation Variability and its Relation to Weather Variability

17:00 – 18:00 <Poster Session and Discussion>

18:30 – 20:30 <Banquet>

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**Session 3: (continued)**

(Chair: Takeshi Ohta)

- 9:30 – 10:00 Michiel K. van der Molen (Vrije University Amsterdam, The Netherlands)  
Maritime Tropical Land Use Change Affecting Climate
- 10:00 – 10:30 Akira Osawa (Kyoto University, Japan)  
Permafrost Forest Ecosystems of Siberia:  
- Recognition of carbon accumulation patterns and processes that differ from other boreal forests -
- 10:30 – 11:00 Nobuko Saigusa (National Institute for Environmental Studies, Japan)  
Impact of Meteorological Anomalies on CO<sub>2</sub> Flux over Various Forests in East Asia
- 11:00 – 11:20 <Coffee Break> and <Poster Session>

**Session 4: Vegetation Change and Climate Change**

(Chair: Hiroyuki Kitagawa)

- 11:20 – 12:00 Atsuko Sugimoto (Hokkaido University, Japan) : *Key-note speech*  
Plant Carbon-Water Relationship in Boreal Forest Ecosystem in Eastern Siberia
- 12:00 – 12:30 Takeshi Nakatsuka (Nagoya University, Japan)  
Long-term Climate-Vegetation Interactions Analyzed by Tree-ring Width and its Isotopic Ratios
- 12:30 – 14:00 <Lunch>
- 14:00 – 14:30 Kumiko Takata (Frontier Research Center for Global Change, JAMSTEC, Japan)  
Changes in Asian Monsoon Climate Induced by Cultivation in the Last 300 years
- 14:30 – 15:00 Ningning Zhang (Nagoya University, Japan)  
Vegetation and Soil Hydrological Process in Boreal Region Simulated by a Dynamic Vegetation Model
- 15:00 – 15:30 Kengo Sudo (Nagoya University, Japan)  
Changes in Biogenic and Anthropogenic Aerosols in Asia and their Climate Impacts

**Session 5: General Discussion**

(Chair: Tetsuzo Yasunari)

15:30 – 16:30

**List of Poster Presentations**

- P-01:** Hemu Kharel Kafle (Nagoya University, Japan)  
Regional Evapotranspiration in Complex Terrain using a New Approach on Two-Source Energy Balance Model with ASTER Data
- P-02:** Takuo Tsuda (Nagoya University, Japan)  
High-Speed Neutral Wind Observed in the Polar Lower Thermosphere
- P-03:** Masaki Yokoyama (Nagoya University, Japan)  
Studies of Solar X-ray and UV Dynamics: 1. Soft X-ray Solar Trans-Equatorial Loop System
- P-04:** Masaki Yokoyama (Nagoya University, Japan)  
Studies of Solar X-ray and UV Dynamics: 2. Variability of Solar Meridional Diameter in Solar Cycle at UV Wavelengths

## List of Poster Presentations (continued)

- P-05:** Takeshi Mori (Nagoya University, Japan)  
Interannual and Intraseasonal Variations of Summer Temperature in Japan
- P-06:** Takayuki Nuimura (Nagoya University, Japan)  
Volume Change Estimation of Glaciers in Khumbu Himal Region using with Multitemporal Digital Elevation Model
- P-07:** Naresh Shakya (Nagoya University, Japan)  
Monitoring of Drought in Nepal and Central Northeastern India from Satellite Data
- P-08:** Tomoki Nakayama (Nagoya University, Japan)  
Measurements of Optical Properties of Aerosols by Cavity Ring-Down Spectroscopy in Mega-city Tokyo, Japan
- P-09:** Julie Pearce (Nagoya University, Japan)  
Real-Time Measurements of Ambient CO<sub>2</sub> Isotope Ratios (<sup>13</sup>C, <sup>18</sup>O) using a Mid-IR QC Laser
- P-10:** Mayumi Horikawa (Nagoya University, Japan)  
Intraseasonal Variations of Stable Isotopic ratios in Precipitation over the Maritime Continent
- P-11:** Akinori Ito (Frontier Research Center for Global Change, JAMSTEC, Japan)  
Carbon Fluxes from Land-Use Change and Forestry: A Multi-Model Study
- P-12:** Satoshi Endo (Nagoya University, Japan)  
Development of Cumulus Boundary Layer over Land
- P-13:** Masanori Nishikawa (Nagoya University, Japan)  
Day-to-day Variation in Diurnal Maximum Height of the Atmospheric Boundary Layer over the Loess Plateau, China
- P-14:** Takahiro Sasai (Nagoya University, Japan)  
Terrestrial Carbon Flux Data at 1 km Spatial Resolution from Satellite Observations and Biosphere Model
- P-15:** Kazutaka Murakami (Nagoya University, Japan)  
Analysis of Future Terrestrial Carbon Cycle Response using a Simplified Earth System Model
- P-16:** Hisashi Sato (Frontier Research Center for Global Change, JAMSTEC, Japan)  
Simulation Study of the Vegetation Structure and Function in Eastern Siberian Larch Forests using the Dynamic Vegetation Model SEIB-DGVM
- P-17:** Supannika Potitthep (Frontier Research Center for Global Change, JAMSTEC, Japan)  
Seasonal Net Ecosystem Productivity Estimation of Deciduous Broadleaf Forest by Spatial 3-PG model
- P-18:** Nakako Kobayashi (Research Institute for Humanity and Nature, Japan)  
Global Warming and the Human-Nature Dimension in Siberia
- P-19:** Kenji Kai (Nagoya University, Japan)  
Dust Outbreaks in the Taklimakan Desert and their Relation to the Local Circulation and Land Surface Condition
- P-20:** Takuma Murakami (Nagoya University, Japan)  
Glacial-Interglacial to Millennial Scale Variations of Paleoenvironments in Central Asia found by Principal Component Analysis of 27 kyr Geochemical Records of Lake Hovsgol Sediment, Northwest Mongolia
- P-21:** Ayumi Kotani (Nagoya University, Japan)  
Variation of Scalar Similarity above the Forest Canopy Following Plant Phenology