



Core-University-Program Workshop on
"Land Management and Biodiversity in Southeast Asia, 2004"

8:40-15:05, Friday, 18 June 2004

Graduate School of Environmental Earth Science, Hokkaido University

Organized by Hokkaido University

Sponsored by JSPS and LIPI

Program

8:40 Opening

8:45 - 9:30 Session 1 Wild Fire

1 Effects of the El Nino drought and its consequent peatland fires on micrometeorology and vegetation index of a tropical peat swamp forest

Takeshi Harada¹, Takashi Hirano¹, Hendrik Segah¹, Suwido Limin², Kitso Kusin², Sehat Jaya Tuah², Ryuichi Hirata¹, Mituru Osaki¹ (¹ Graduate School of Agriculture, Hokkaido University; ² University of Palangkaraya)

2 C-14 dates on peatland development and history of peatland fire around Palangkaraya, Central Kalimantan
Eko Yulianto¹, Kazuomi Hirakawa², Yoshimasa Kurashige³ (¹ Graduate School of Environmental Earth Science, Hokkaido University; ² School of Environmental Science, University of Shiga Prefecture)

3 Analysis of peat soils from a tropical land in Central Kalimantan, Indonesia

U. Aswin¹, H. Hayasaka², Y. Hashimoto³, H. Takahashi⁴, M. Kamiya⁵ (¹ Graduate School of Environmental Earth Science, Hokkaido University; ² Graduate School of Engineering, Hokkaido University; ³ Fire Science Laboratory, Sapporo Fire Bureau; ⁴ Hokkaido Institute of Hydro-Climate; ⁵ Hokkaido Institute of Technology)

9:30 - 10:30 Session 2 Peat Swamp Forest and Material Cycling

4 Survey of a tidal wave motion in the Sebangau River

Daisuke Tanaka, Kazuyoshi Hasegawa (Graduate School of Engineering, Hokkaido University)

5 Water quality and its flow characteristic of Sebangau River in tropical peat land watershed, Central Kalimantan, Indonesia

Ai Kano, Rofiq Iqbal, Harukuni Tachibana (Graduate School of Engineering, Hokkaido University)

- 6 Plant species coexistence controlled by organic matter dynamics in a tropical peat swamp forest
Tetsuya Shimamura¹, Kuniyasu Momose², Shigeo Kobayashi³ (¹Field Science Education and Research Center Kyoto University; ²College of Agriculture, Ehime University; ³Graduate School of Asian and African Area Studies, Kyoto University)
- 7 Comparison of primary production of phytoplankton and litter fall in Lake Batu, a flood plain lake in Central Kalimantan
Toshiyuki Ishikawa¹, Yurenfri², Ardianor², Toshio Iwakuma¹ (¹Graduate School of Agriculture, Hokkaido University; ²University of Palangkaraya)

10:30 - 10:45 Break

10:45 - 11:45 Session 3 Land Use, Water Quality and Organisms

- 8 Dinamic Change of NDVI over tropical peat swamp forest area in Central Kalimantan, Indonesia, by SPOT-vegetation data and ground based NDVI instrument
Hendrik SEGAH¹, Hiroshi TANI¹, Masao YAZAWA¹, Takashi HIRANO¹, Suwido LIMIN² (¹Graduate School of Agriculture, Hokkaido University; ²University of Palangkaraya)
- 9 Effect of agriculture and wildfire on water quality of the hydrosphere in central Kalimantan, Indonesia
Kanta KURAMOCHI¹, Tomoaki MORISITA¹, Ryusuke HANANO^{1,2}, Untung DARUNG³, Suwido H. LIMIN³, Salampak DOHUNG³, Syaiful ANWAR⁴ (¹Graduate School of Agriculture, Hokkaido University, ²Field Science Center for Northern Biosphere, Hokkaido University, ³Faculty of Agriculture, University of Palangka Raya, ⁴Faculty of Agriculture, Bogor Agricultural University)
- 10 A comparative study of water quality and zooplankton of ponds in and around the large-scale development area in Central Kalimantan
Maki Imai¹, Yurenfri², Sulmin Gumiri², Toshio Iwakuma¹ (¹Graduate School of Environmental Earth Science, Hokkaido University; ²University of Palangkaraya)
- 11 Desiccation tolerance and freeze tolerance of Milnesium tardigradum (Tardigrada) from Sapporo, Japan and Bogor, Indonesia
Daiki Horikawa¹, Chihiro Katagiri², Seigo Higashi¹ (¹Graduate School of Environmental Earth Science, Hokkaido University, ²Institute of Low Temperature Science)

11:45 - 12:45 Lunch

12:45 - 13:30 Session 4 Forest Ecology and Biodiversity

- 12 Comparison of tree allometry and leaves property in tropical and temperate forest
Satomi Shiodera, Takashi Kohyama (Graduate School of Environmental Earth Science, Hokkaido University)

- 13 Community structure of litter-dwelling invertebrates in the crowns of bird's nest fern, *Asplenium nidus*, in Indonesia

Masanori Hirata¹, Erniwati², Takashi Kohyama¹, Seigo Higashi¹ (¹ Graduate School of Environmental Earth Science, Hokkaido University; ² Research Center for Biology-LIPI)

- 14 Molecular phylogeny and genetic diversity of murid rodents from Southeast Asia

Tomofumi Shimada¹, Alejandro A. Chinen¹, Hitoshi Suzuki¹, Ken Aplin², Ibnu Maryanto³ (¹ Graduate School of Environmental Earth Science, Hokkaido University, ² CSIRO Australia, ³ Research Center for Biology-LIPI)

13:30 - 14:00 Session 5 Land Use and Environmental Remediation

- 15 Seedling culture of tropical peat swamp tree species using mycorrhizas

Hiroshi Tamai (Graduate School of Agriculture, Hokkaido University)

- 16 Investigation of pollution with mercury by gold mining process of rivers in Indonesia and the remediation

Tomoyuki Kimura¹, Yusutiawati², M. S. Syawal², Shunitz Tanaka¹ (¹ Graduate School of Environmental Earth Science, Hokkaido University; ² Research Center for Limnology-LIPI)

14:00 - 15:00 Session 6 Human Dimension

- 17 Application of results from Core University Program on local society through the new financial support system "Bio-Right" for natural resource conservation

Hidenori Takahashi¹, Suwido H. Limin² (¹ Hokkaido Institute of Hydro-Climate; ² University of Palangka Raya)

- 18 Approaches to human dimension program by the study group of forest ecology and biodiversity

Hitoshi Suzuki (Graduate School of Environmental Earth Science, Hokkaido University)

- 19 Approaches to human dimension program by the study group of land use and material cycling

Takashi Inoue (Graduate School of Agriculture, Hokkaido University)

- 20 Approaches to human dimension program by the study group of peatland and river technology

Harukuni Tachibana (Graduate School of Engineering, Hokkaido University)

- 21 Approaches to human dimension program by the study group of aquatic ecology and environmental remediation

Toshio Iwakuma (Graduate School of Environmental Earth Science, Hokkaido University)

- 22 Research plan for the study group of human dimension

Mitsuru Osaki (Graduate School of Agriculture, Hokkaido University)

15:00 Closing