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 (¹Graduate School of Agriculture, Hokkaido University; ²University of Palangkaraya)

2  C-14 dates on peatland development and history of peatland fire around Palangkaraya, Central Kalimantan
   Eko Yulianto¹, Kazuomi Hirakawa², Yoshimasa Kurashige³ (¹Graduate School of Environmental Earth Science, Hokkaido University; ²School 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. Takahashi³, M. Kamiya³ (¹Graduate School of Environmental Earth Science, Hokkaido University; ²Graduate School of Engineering, Hokkaido University; ³Fire Science Laboratory, Sapporo Fire Bureau; ⁴Hokkaido Institute of Hydro-Climate; ⁵Hokkaido 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 (¹ Field Science Education and Research
   Center Kyoto University; ² College of Agriculture, Ehime University; ³ Graduate 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 (¹ Graduate School of Agriculture,
   Hokkaido University; ² University 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 SEG AH¹, Hiroshi TANI¹, Masao YAZAWA¹, Takashi HIRANO¹, Suwido LIMIN² (¹ Graduate
   School of Agriculture, Hokkaido University; ² University of Palangkaraya)

9 Effect of agriculture and wildfire on water quality of the hydrosphere in central Kalimantan, Indonesia
   Kanta KURAMOCHI¹, Tomoaki MORISITA¹, Ryusuke HANANO¹,², Untung DARUNG³, Suwido H.
   LIMIN³, Salampak DOHUNG³, Syaiful ANWAR⁴ (¹ Graduate School of Agriculture, Hokkaido
   University, ² Field Science Center for Northern Biosphere, Hokkaido University, ³ Faculty of
   Agriculture, University of Palangka Raya, ⁴ Faculty 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 (¹ Graduate School of Environmental Earth
   Science, Hokkaido University; ² University of Palangkaraya)

11 Desiccation tolerance and freeze tolerance of Milnesium tardigradum (Tardigrada) from Sapporo, Japan
   and Bogor, Indonesia
   Daiki Horikawa¹, Chihiro Katagiri², Seigo Higashi² (¹ Graduate School of Environmental Earth Science,
   Hokkaido University, ² Institute 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 Higashi³ (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