



AsiaFlux Workshop 2009

**Integrating Cross-scale Ecosystem Knowledge:
Bridges and Barriers**

October 27-29, Sapporo, Japan

<http://www.japanflux.org/asiafluxws2009/>

AsiaFlux is a science community striving to bring Asia's key ecosystems under observation to develop and transfer scientific knowledge to ensure quality and sustainability of life in Asia.

Invited Speakers

Dr. George G. Burba
(LI-COR Biosciences, US)

Prof. John Grace
(The University of Edinburgh, UK)

Prof. Hironori Hamanaka
(Keio University, Japan)

Dr. John Hom
(U.S. Department of Agriculture)

Dr. Ray Leuning
(CSIRO Marine and Atmospheric
Research, Australia)

Dr. William Massman
(U.S. Department of Agriculture)

Dr. Kenlo Nasahara
(University of Tsukuba, Japan)

Dr. Markus Reichstein
(Max Planck Institute for Biogeo-
chemistry, Germany)

Dr. Lisa Wingate
(The University of Edinburgh, UK)

The workshop will explore the potentials of collaborations between flux research community and various other research communities specializing particularly in long-term ecological research, remote-sensing, and social science to 1) deepen our knowledge about ecosystems, 2) extend our knowledge to broader regions, and 3) extend the knowledge to the society. For this purpose, several special sessions will be organized that would feature collaborations with organizations and networks in other fields, such as FLUXNET, iLEAPS, JAXA, and ILTER; and the flagship studies will be presented by invited speakers from these networks.

Featured Session Topics

- **Synthesizing flux studies in Asia**
- **Global biogeochemical cycles**
- **Bridges between ecosystem observation and remote sensing**
- **Barriers in flux measurements**
- **Interfaces between carbon science and society**

Sponsors

- Japan Society for Promotion of Science
- National Natural Science Foundation of China
- Korea Science and Engineering Foundation
- Global COE Program (Establishment of Center for Integrated Field Environmental Science), MEXT, Japan
- Japan Aerospace Exploration Agency
- National Institute for Environmental Studies (Japan)
- LI-COR Biosciences
- Meiwafosis Co., Ltd.
- Sapporo International Communication Plaza Foundation

Cooperating Organizations

- The Society of Agricultural Meteorology of Japan
- iLEAPS Japan
- Japan Long-Term Ecological Research Network

Important Dates

June 10, 2009

Registration opens

June 30, 2009

Business display
application deadline

August 28, 2009

Early registration and
abstract submission
deadline

AsiaFlux Steering Committee

Chair: Joon Kim (Korea)
Vice-Chair: Akira Miyata (Japan)
Vice-Chair: Guirui Yu (China)

Samakkee Boonyawat (Thailand)
Takashi Hirano (Japan)
Yue-Joe Hsia (Taiwan)
Hiroshi Koizumi (Japan)
Byonglyol Lee (Korea)
Dongho Lee (Korea)
Shenggong Li (China)
Yoshikazu Ohtani (Japan)
Nobuko Saigusa (Japan)
Makoto Tani (Japan)
Sandeep Tripathi (India)
Susumu Yamamoto (Japan)
Guangsheng Zhou (China)

AsiaFlux Workshop 2009 Local Organizing Committee

Chair: Takashi Hirano (Hokkaido University)
Kentarō Takagi,
Tsutomu Watanabe,
Tatsuro Nakaji (Hokkaido University)
Akira Miyata (National Institute for Agro-environment Science)
Koji Tamai (Forest and Forest Products Research Institute)
Nobuko Saigusa,
Akiko Ogawa (National Institute for Environmental Studies)

Contact

AsiaFlux Secretariat Office in Tsukuba
Center for Global Environmental Research
National Institute for Environmental Studies
16-2 Onogawa, Tsukuba 305-8506 Japan
Phone: +81 29 8502971
Fax: +81 29 8582645
E-mail: workshop2009@asiaflux.net

Date and Venue

Date: October 27-29, 2009

Venue: Conference Hall,
Hokkaido University
N10 W8, Kita-ku, Sapporo
060-0810, Japan
(<http://www.hokudai.ac.jp/en/pickup/accesstocampus.html>)

Program

Synthesizing flux studies in Asia (CarboEastAsia)

CarboEastAsia member scientists share their recent progresses in synthesis studies of carbon and water fluxes in Asia.

Global biogeochemical cycles

This session focuses on research on biogeochemical cycles conducted in collaboration with biogeochemical study programs such as iLEAPS.

Bridges between ecosystem observation and remote sensing

This session discusses cutting-edge research techniques and potentials linking flux research, long-term ecological research, and remote sensing research using "Land use change" and "Phenology" as key words.

Barriers in flux measurements

This session will discuss the problems and their solutions for Open-path flux measurement. LI-COR, LI-7500 open-path gas analyzer is used world wide to measure CO₂ flux, and has been the standard tool. However, some reports show difficulties in measuring the real flux with this instrument. This session aims to discuss the possible causes for the troubles and the solutions to them.

Interfaces between carbon science and society

This session also aims to share the recent achievements on regional carbon flux monitoring studies, with particular emphasis on developing systems to transfer the scientific knowledge to the society, or to develop socio-economic resolutions to prevent and mitigate the risk of human-induced climate change associated with carbon, water and energy cycles in Asia.

Regular session

Many other studies on flux, remote sensing, and ecological studies related to carbon and water cycles are welcome.

Field Excursion

Course A : One-day Trip to Flux monitoring and long-term ecological research sites near Sapporo (Oct 29).

The tour will visit flux monitoring sites in Tomakomai and Sapporo.

Course B : Two-day Trip to wetland and Teshio CC-LaG site and in northern Hokkaido (Oct 29-30) .

This course will visit flux monitoring sites in Sarobetsu mire (a high moor wetland in Rishiri-Rebun-Sarobetsu National Park) and Teshio.



Flux site in Sapporo



Sarobetsu Mire



Flux site in Teshio

Organizers

- AsiaFlux Steering Committee
- AsiaFlux Workshop 2009 Local Organizing Committee

