



Present situation and challenges of AsiaFlux - From Activities of Workgroups in 2006 -

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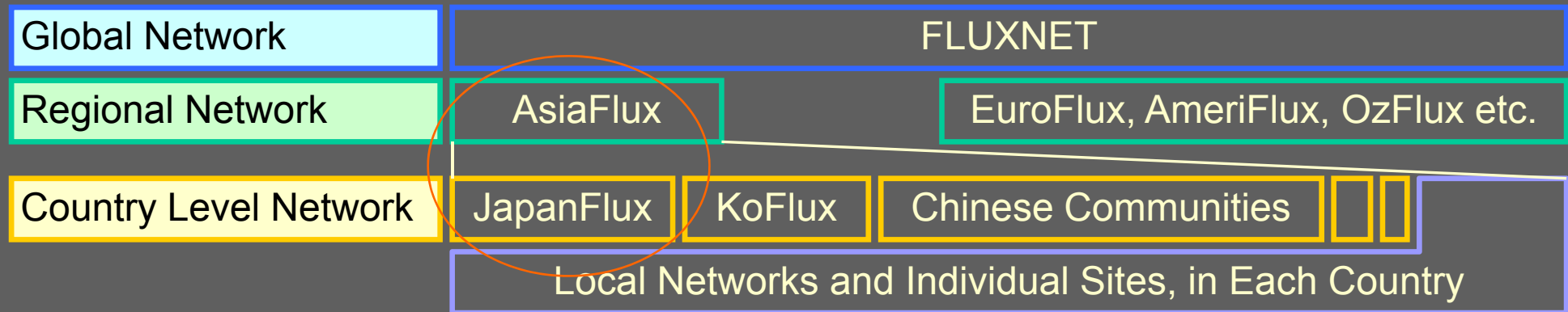
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Topics in 2006

2006: AsiaFlux's phase of texture enhancement and activity development contributed from AsiaFlux workgroup activities

1. AsiaFlux to be an umbrella organization which covers Asian communities



2. Opening the 1st AsiaFlux Training Course on Micrometeorology
3. AsiaFlux policy and membership to be taken in context
4. Issue of AsiaFlux Newsletter in the updated editorial line
5. Discussion on the AsiaFlux Database and Data Policy
6. Opening the 6th International Workshop in Chiang Mai
7. New web site along the updated policy and activities
8. Development of portable flux measurement system



Sub-workgroups and their sharing of roles:

- **AsiaFlux General WG**

- **AsiaFlux Network Management SWG**

(e.g. Updating AsiaFlux directory and web page)

- **AsiaFlux Editorial SWG** (e.g. AsiaFlux Newsletter)

- **Workshop Management SWG** (e.g. AsiaFlux Workshop)

- **Measurement and Data Policy WG**

- **Measurement Support and Standardization SWG**

(e.g. Flux measurement and analysis methodology, site planning, and inter comparison)

- **Short Training Courses SWG**

(e.g. AsiaFlux training courses for flux measurement and analysis)

- **Database and Data Policy SWG**

(e.g. AsiaFlux data policy and data exchange mechanisms)

Financial support:

- by the Japanese Ministry of Education, Culture, Sports, Science and Technology (MEXT); FY 2005 - 2007

- by the Asia-Pacific Network for Global Change Research (APN);
FY 2005 – 2006



AsiaFlux History Update

- Sep. 1999: AsiaFlux established
- Mar. 2000: AsiaFlux launched the “AsiaFlux Web Indexes” on the web
- Sep. 2000: 1st International Workshop (*Sapporo, Japan*)
“International Workshop for Advanced Flux Network and Flux Evaluation”
- Jan. 2002: 2nd International Workshop (*Jeju, Korea*) KoFlux and AsiaFlux
- Dec. 2003: 3rd International Workshop (*Beijing, China*) ChinaFlux and AsiaFlux
- Aug. 2005: 4th International Workshop (*Fujiyoshida, Japan*)
- Nov. 2006: 5th International Workshop (*Chiang Mai, Thailand*)

AsiaFlux Situation Update

- Established: KoFlux in 2002
- Established: ChinaFLUX in 2002 under the project of the Chinese Ecosystem Research Network (*CERN*)
- Published: 19 volumes of the AsiaFlux Newsletter from Feb. 2002
(Editors from Japan, Korea and China)
- Published: Booklet “The Flux Observation in Terrestrial Ecosystems” in Dec. 2003
- Convened: 13 Steering Committee Meetings
- Establish of JapanFlux in 2006 (tentative)



AsiaFlux policy and membership

Overview

→ Reflecting to the AsiaFlux web and brochure

AsiaFlux is a regional research network bringing together university and institution scientists from the Asian nations to study the exchanges of carbon dioxide (CO₂), water vapor, and energy between terrestrial ecosystems and the atmosphere across daily to inter-annual time scales.

Asian terrestrial ecosystems - the richest in the world - distribute continuously from tundra through temperate to tropical forests latitudinally and from monsoonal rainforests through semi-arid to desert biome longitudinally. Carbon sequestration of Asian ecosystems have been predicted to play a key role in global carbon cycle.

AsiaFlux was established in September 1999 and its web page was launched in March 2000. To date, there are about 100 flux sites distributed throughout the east Asian region. The first AsiaFlux workshop was held in September 2000 (WS2000) in Sapporo, and the WS2002, WS2003, WS2005, and WS2006 were held in Jeju, Beijing, Fujiyoshida and Chiang Mai, respectively.



General objectivities

→ Reflecting to the AsiaFlux web and brochure

1. To investigate the magnitude of the carbon sources/sinks for a range of terrestrial ecosystems, in respect of climate, species, age and geographical locations;
2. To understand the effect of inter and intra-annual climate variations on the magnitude of carbon, water and energy exchanges of terrestrial ecosystems;
3. To investigate the role of soil, wood and leaves biomass respiration on of the ecosystem carbon exchanges;
4. To validate the micrometeorological method against the standard biometric approach;
5. To investigate the role of forest management on the ecosystem carbon, water and energy cycles;
6. To study the effects of natural (wild fires, insect pests, typhoons, etc.) and human induced (logging, land use change, over grazing, etc.) disturbances on carbon and water cycles in Asian terrestrial ecosystems;
7. To coordinate the tower-based carbon flux research group with the atmospheric, oceanic, soil, and terrestrial water research groups;
8. To extrapolate the ground based measurements in both space and time by using remote sensing and modeling.



Join the AsiaFlux Network (1)

We appeal to all scientists studying carbon dioxide, water vapor and energy fluxes and to modelers to join AsiaFlux. All results will be integrated and shared through the AsiaFlux workshops and collaborative field studies.

Membership

1. All AsiaFlux members need to understand our objectives and intend to participate in our activities;
2. All members need to register with AsiaFlux by supplying the personal information required by the AsiaFlux Network Sub-workgroup (www.asiaflux.net/members);
3. All members will be subscribed to the AsiaFlux Mailing List.



Join the AsiaFlux Network (2)

Advantages of Membership

1. All members can access the member page on the AsiaFlux web site;
2. All members can make presentations at AsiaFlux workshops and contribute articles to the Newsletter;
3. All members can get the latest news on AsiaFlux activities;
4. All members can join the network discussion.

Information required for membership

1. Name;
2. Affiliation;
3. Contact information
(postal address, phone number, and e-mail address);
4. Field of interest.

 <http://www.asiaflux.net/>



AsiaFlux Newsletter and brochure

December 2005
Issue No. 16

AsiaFlux Newsletter

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Report on "The Seventh International Carbon Dioxide Conference (ICDC7)"
Yoshiyuki TAKAHASHI* and Yasuko MIZOGUCHI**

*National Institute for Environmental Studies, Japan.
**Forestry and Forest Products Research Institute, Japan

The Seventh International Carbon Dioxide Conference* organized by National Ocean and Atmosphere Administration Climate Monitoring and Diagnostic Laboratory (NOAA/CMDL) was held in Bloomfield, Colorado, USA on 25-30th of September, 2005, with over 400 participants from all over the world. This conference is one of a series of scientific conferences that have been held every four years, since its first meeting in 1981 in Bern, Switzerland. The last one was held in Sendai, Japan, and this was the first time in USA, Colorado, where many institutions such as NOAA/CMDL, National Center for Atmospheric Research (NCAR), University of Colorado (CU), Colorado State University (CSU) and others, are conducting intensive research on atmospheric CO₂. This conference was chaired by P. P. Tans of NOAA/CMDL.

What struck us when we arrived at Denver international airport was the clear blue sky. Denver and surrounding cities are located at elevation of over 1600 m above sea level. People who are living there call their own city "Mile high city". Rumor (or could it be a true story?) has it that, in the laboratories there, even the air samples collected under ambient pressure in low land need no pumping or suction for the introduction into measurement system because there exists enough pressure difference between the pressure of the sample air from low land (~100kPa) and ambient pressure



A view of OMNI Interlocken Resort Hotel. Wild life (rabbit, prairie dog, etc.) were seen around.

Updated Editorial line:
Editors from Asian sites
(from China, and other inexperienced regions)
Mechanisms to promote self-active contribution
(open pages to introduce outcomes from sites or groups)

Quarterly, from Sep. 2005 (No.15) to Sep. 2006 (No.19)
Published: 5 volumes
Editors: 4 from Japan, 1 from Korea, the next will be from China
Authors: 34 from Japan, 9 from Korea, 4 from China, and 1 from Thailand
Articles: 13 from Japan, 3 from Korea, 2 from China, 1 from Thailand, and 1 from Indonesia

Newsletter

Brochure

Science Steering Committee of the AsiaFlux

Executive Committee Co-Chairs
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Organization
Global Work group
1) AsiaFlux Network Management SWG
2) AsiaFlux Editorial SWG
3) Workshop Management SWG
Measurement and Data Policy Workgroup
1) Measurement Support and Standardization SWG
2) Database and Data Policy SWG
3) Short Training Courses SWG

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Sponsored by
Japan Science and Technology Agency
The Asian-Pacific Network for Global Change Research

www.asiaflux.net

About AsiaFlux

Overview
AsiaFlux is a regional research network bringing together university and government scientists from the Asian region to study the exchange of carbon dioxide (CO₂), water vapor, and energy between terrestrial ecosystems and the atmosphere across daily to inter-annual time scales.

Asian terrestrial ecosystems - the richest in the world - distribute continuously from tundra through temperate to tropical forest bioturbidity and from mountainous mountains through sea and to desert biomes longitudinally. Carbon sequestration of Asian ecosystems have been predicted to play a key role in global carbon cycle.

AsiaFlux was established in September 1999 and its web page was launched in March 2001. To date, there are about 100 flux sites distributed throughout the vast Asian region. The first AsiaFlux workshop was held in September 2000 (WGS00) in Tsingtau, and the WGS02, WGS03, WGS05, and WGS06 were held in Tokyo, Beijing, Hyderabad and Chiang Mai, respectively.

General objectives

1. To investigate the magnitude of the carbon sequestration for a range of terrestrial ecosystems, in respect of climate, species, age and geographical location.
2. To understand the effect of inter and intra annual climate variations on the magnitude of carbon, water and energy exchange of terrestrial ecosystems.
3. To investigate the role of soil, wood and in-situ biomass sequestration on the ecosystem carbon exchange.
4. To evaluate the micro-meteorological effect upon the ecosystem biomass response.
5. To investigate the role of forest management on the ecosystem carbon, water and energy fluxes.
6. To study the effect of carbon (soil flux, insect pests, typhoons, etc.) disturbance on carbon and energy cycle in Asian terrestrial ecosystems.
7. To coordinate the tower-based carbon flux research group with the atmospheric, oceanic, soil, and terrestrial water research groups.
8. To investigate the ground-based measurements in both open wetland by using eddy covariance and modeling.

Tower-based measurements
Terrestrial Carbon, water and energy fluxes are measured directly with the eddy covariance method (EC). EC eddy flux is supported by using OACDC pre-processor and modeling eddy covariance with biophysical/ecophysiological models using and model simulation approaches.

Ground level measurements
Soil CO₂ efflux, the largest component of ecosystem respiration (R_e) was the second largest component of CO₂ flux (NEE) is measured continuously with the automated fluxline systems at most and more sites. For most of the sites, NEE is validated against the biometric approach.

Remote Sensing
Spatial inference of vegetation is measured using remote sensing of optical, radiometric, and phenology is monitored with satellite capturing digital satellite sensors. These techniques can be used for conducting wide-scale monitoring through time based observations to ground-based measurement.

Model Simulation
Terrestrial ecosystem models simulate water dynamics including carbon and water cycles, allowing us mechanistic interpretation of the observed carbon and water fluxes in time and space. Modeling studies at most of the flux sites suggest that further model improvement is a key issue to accomplish regional carbon accounting both in scientific and eco-economic dimension.

Join the AsiaFlux Network
We appeal to all scientists studying carbon, dioxide, water vapor and energy fluxes and its models to join AsiaFlux. All results will be disseminated through the AsiaFlux workshops and collaborative field studies.

Membership

1. All AsiaFlux members need to understand our objectives and attend to participate in our activities.
2. All members need to register with AsiaFlux by supplying the personal information required by the AsiaFlux Network Data Management Group (asiaflux@nies.go.jp).
3. All members will be subscribed to the AsiaFlux Mailing List.

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2. All members need to register with AsiaFlux by supplying the personal information required by the AsiaFlux Network Data Management Group (asiaflux@nies.go.jp).
3. All members can make presentations at AsiaFlux workshops and contribute articles to the Newsletter.
4. All members can get the latest news on AsiaFlux activities.

Information required for membership

1. Name.
2. Affiliation.
3. Current information (postal address, phone number, and e-mail address).
4. Field of interest.

www.asiaflux.net



AsiaFlux Workshop

AsiaFlux encourages our activities on flux measurement and related researches in Asian region through the information exchange.

International Workshop on Flux Estimation over Diverse Terrestrial Ecosystems in Asia

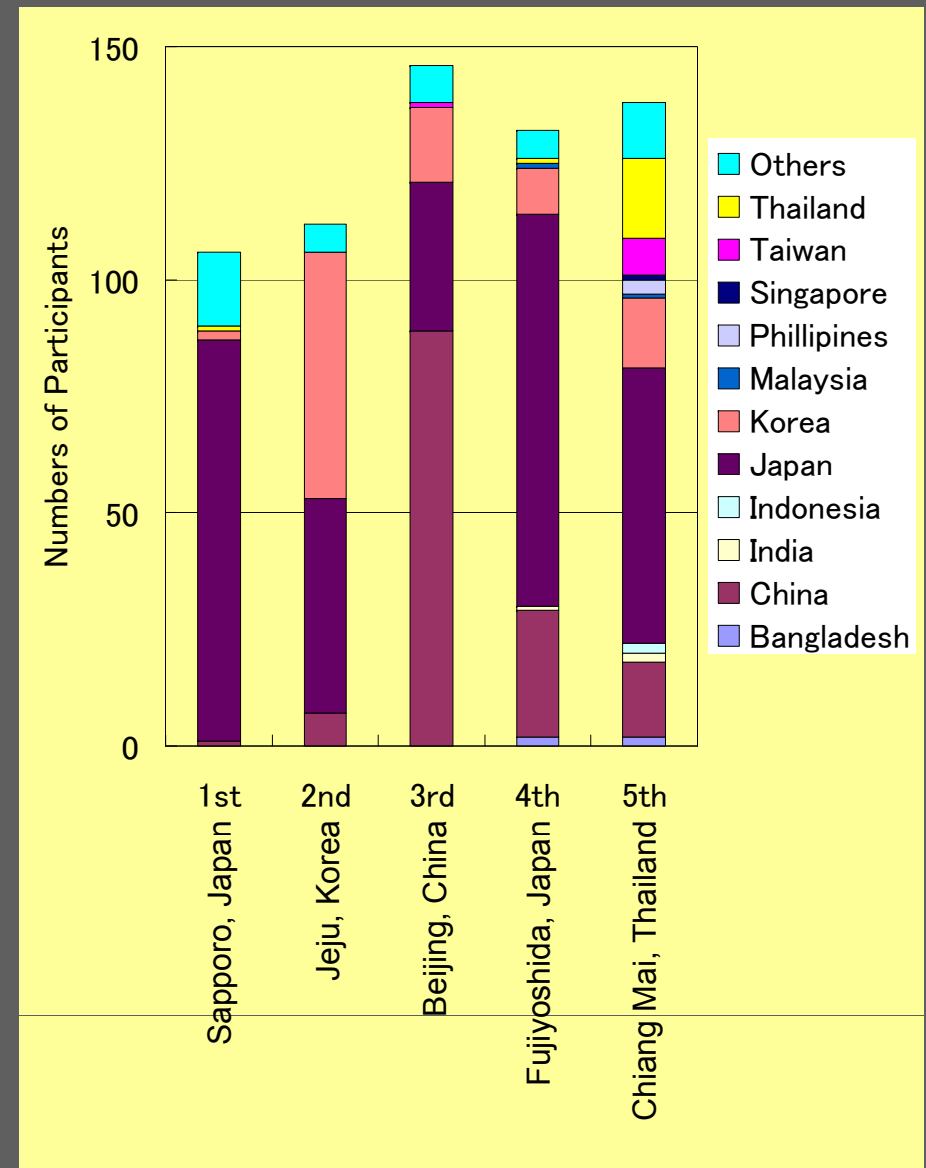
– AsiaFlux Workshop 2006 –

From Nov.29 to Dec. 1, 2006

Chiang Mai, Thailand

participants=

from Bangladesh, China, India, Indonesia, Japan, Korea, Malaysia, Phillipines, Singapore, Taiwan, Thailand, USA,



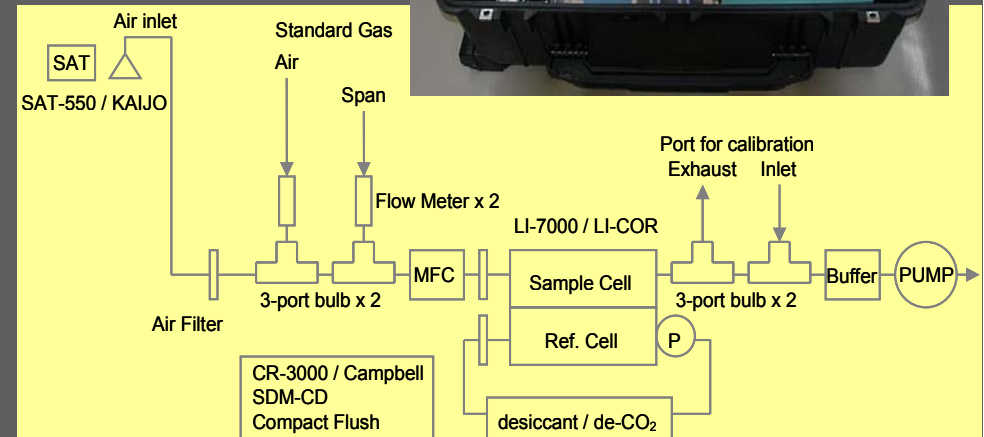
Measurement Support and Standardization

A portable flux measurement system:

Both closed- and open-path eddy covariance coexist in AsiaFlux. We are preparing portable system (both CPEC and OPEC) for making inter-comparison at your study site, if requested.

We provide technical support for new flux study sites.

Showing priority of observation elements and some recommendations in measurement



A portable flux measurement system (CPEC)

Various types of quantum sensors are compared at Fujiyoshida site, Japan (by courtesy of Y. Mizoguchi, FFPRI). Arrayed sensors are LI-190SA (Licor, USA), IKS-27 (Koito, Japan), PAR-01 (Prede, Japan), PAR Lite (Kipp&Zonen, the Netherlands) and ML-020P (Eko, Japan). Laboratory tests are also made.

AsiaFlux Training Course on Micrometeorology



The 1st AsiaFlux Training Course was held:

- In 21-30, Aug, 2006 in Tsukuba and Fujiyoshida;
- Aimed for diffusing basic theory and observation techniques to Asian flux researchers
- More than 20 participants from 10 Asian countries
- More than 10 lecturers from 5 countries (USA, Canada, Korea, China & Japan)



→ Planning TC2007 in Korea



AsiaFlux Database and Data use policy

In the next research phase

- **Integrative and inter-comparative studies** will become more important to evaluate C/water budgets across Asia region
- Development of strategies for C/water management or environment preservation



We need an original database, as a collecting/sending station for systematically-arranged data sets not to be confined to eddy covariance fluxes and meteorological data



What we can obtain from AsiaFluxDB?
How do we protect data provider's right?



Fair-Use policy

“AsiaFluxDB” is now being developed!



Fair-Use policy

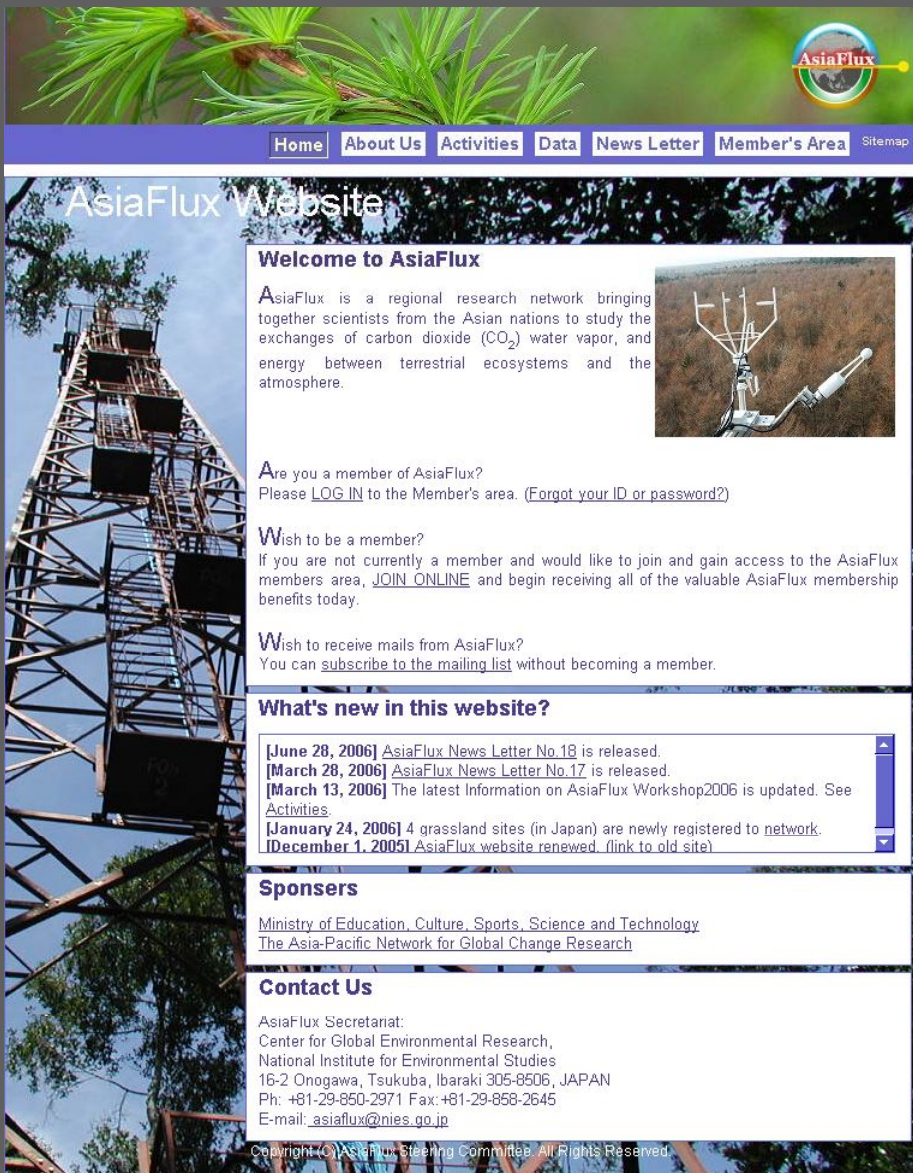
- 1) Prohibition of distribution of downloaded data to the third person.
- 2) If data user wish to distribute the downloaded data to the third person, after post-processing and reanalyzing, datauser must inform the data provider and obtain his/her/their approval.
- 3) Data provider may require datauser to clear priorities to the data provider, or postpone the usage of the data because of direct conflicts to data provider’s analysis.
- 4) Co-authorship or acknowledgement to the data provider and AsiaFluxDB.
- 5) Provide reprints of paper/article using data from AsiaFluxDB to the data provider and AsiaFluxDB after the publication.

	A	B	C	D	E	F	G	H	I	J	K
1	Year	DOY	TIME	NEE	H	LE	USt	Rgs	Rn	PPFD	TPAR
2	YYYY	-	HHMM	micromol n	W m-2	W m-2	m s-1	W m-2	W m-2	micromol n	micromol n
3	2003	1	0	0.0	-3.9	0.0	0.0	0.0	-39.3	0.0	0.0
4	2003	1	30	0.0	7.9	-0.6	0.0	0.0	-45.4	0.0	0.0
5	2003	1	100	0.0	17.6	-1.2	0.0	0.0	-48.7	0.0	0.0
6	2003	1	130	0.0	13.4	-1.7	0.0	0.0	-49.5	0.0	0.0
7	2003	1	200	9999.0	9999.0	9999.0	9999.0	0.0	-47.0	0.0	0.0
8	2003	1	230	9999.0	9999.0	9999.0	9999.0	0.0	-45.8	0.0	0.0
9	2003	1	300	0.0	-3.9	-0.4	0.0	0.0	-32.3	0.0	0.0
10	2003	1	330	0.1	0.6	1.9	0.1	0.0	-33.3	0.0	0.0
11	2003	1	400	0.0	0.2	0.7	0.0	0.0	-41.8	0.0	0.0
12	2003	1	430	0.0	0.5	0.6	0.0	0.0	-40.7	0.0	0.0
13	2003	1	500	0.0	17.0	-0.5	0.0	0.0	-22.9	0.0	0.0
14	2003	1	530	0.0	-1.5						
15	2003	1	600	0.0	-10.0						

Data example (meteorological data in csv format)



7. AsiaFlux New Web Site



AsiaFlux Website

Welcome to AsiaFlux

AsiaFlux is a regional research network bringing together scientists from the Asian nations to study the exchanges of carbon dioxide (CO₂), water vapor, and energy between terrestrial ecosystems and the atmosphere.

Are you a member of AsiaFlux?
Please [LOG IN](#) to the Member's area. ([Forgot your ID or password?](#))

Wish to be a member?
If you are not currently a member and would like to join and gain access to the AsiaFlux members area, [JOIN ONLINE](#) and begin receiving all of the valuable AsiaFlux membership benefits today.

Wish to receive mails from AsiaFlux?
You can [subscribe to the mailing list](#) without becoming a member.

What's new in this website?

- [June 28, 2006] [AsiaFlux News Letter No.18](#) is released.
- [March 28, 2006] [AsiaFlux News Letter No.17](#) is released.
- [March 13, 2006] The latest Information on AsiaFlux Workshop2006 is updated. See [Activities](#).
- [January 24, 2006] 4 grassland sites (in Japan) are newly registered to [network](#).
- [December 1, 2005] [AsiaFlux website renewed](#). ([link to old site](#))

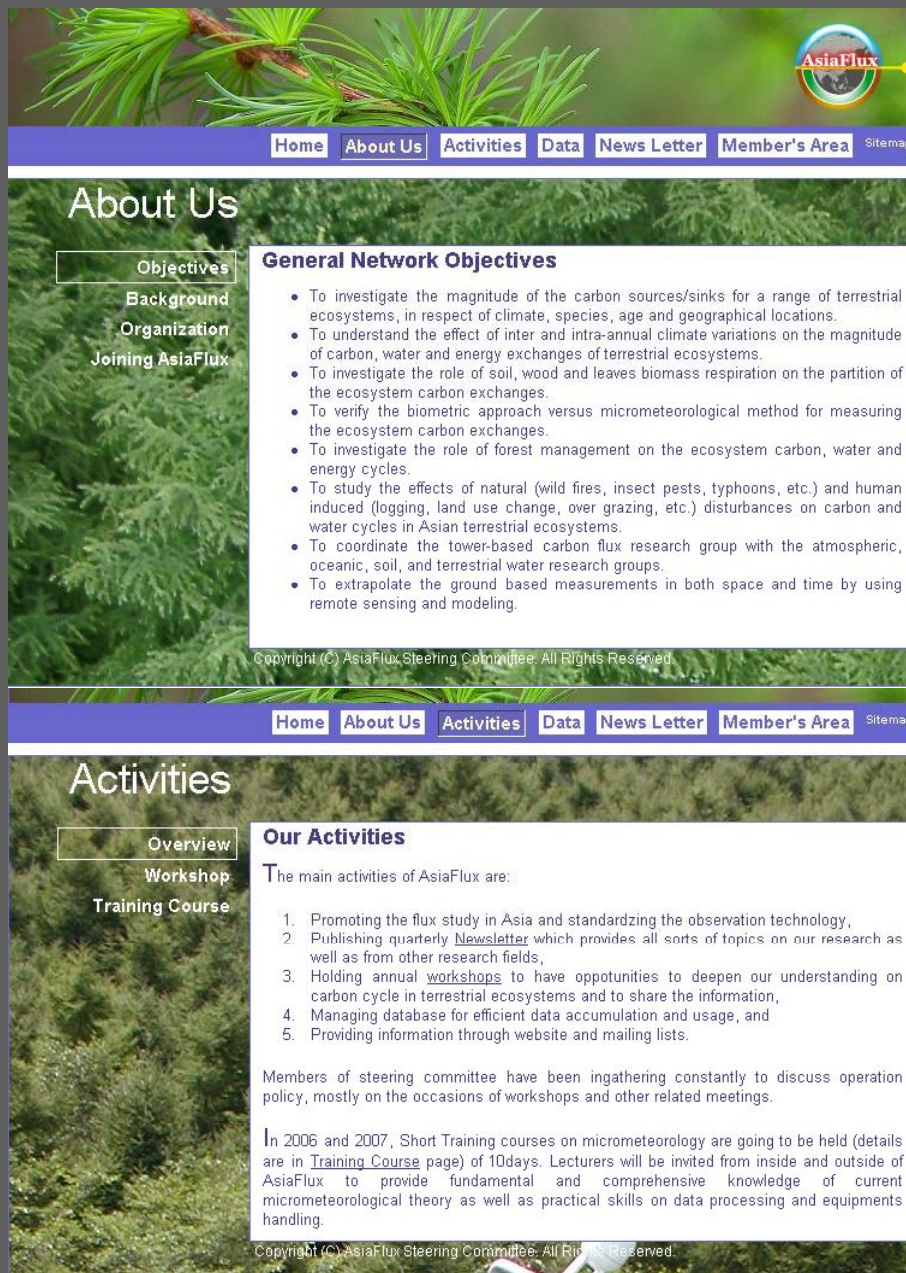
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[The Asia-Pacific Network for Global Change Research](#)

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About Us

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General Network Objectives

- To investigate the magnitude of the carbon sources/sinks for a range of terrestrial ecosystems, in respect of climate, species, age and geographical locations.
- To understand the effect of inter and intra-annual climate variations on the magnitude of carbon, water and energy exchanges of terrestrial ecosystems.
- To investigate the role of soil, wood and leaves biomass respiration on the partition of the ecosystem carbon exchanges.
- To verify the biometric approach versus micrometeorological method for measuring the ecosystem carbon exchanges.
- To investigate the role of forest management on the ecosystem carbon, water and energy cycles.
- To study the effects of natural (wild fires, insect pests, typhoons, etc.) and human induced (logging, land use change, over grazing, etc.) disturbances on carbon and water cycles in Asian terrestrial ecosystems.
- To coordinate the tower-based carbon flux research group with the atmospheric, oceanic, soil, and terrestrial water research groups.
- To extrapolate the ground based measurements in both space and time by using remote sensing and modeling.

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Activities

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Our Activities

The main activities of AsiaFlux are:

1. Promoting the flux study in Asia and standardizing the observation technology,
2. Publishing quarterly [NewsLetter](#) which provides all sorts of topics on our research as well as from other research fields,
3. Holding annual [workshops](#) to have opportunities to deepen our understanding on carbon cycle in terrestrial ecosystems and to share the information,
4. Managing database for efficient data accumulation and usage, and
5. Providing information through website and mailing lists.

Members of steering committee have been ingathering constantly to discuss operation policy, mostly on the occasions of workshops and other related meetings.

In 2006 and 2007, Short Training courses on micrometeorology are going to be held (details are in [Training Course](#) page) of 10days. Lecturers will be invited from inside and outside of AsiaFlux to provide fundamental and comprehensive knowledge of current micrometeorological theory as well as practical skills on data processing and equipments handling.

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Data Source

[Data Policy](#)

[AsiaFluxDB](#)

AsiaFlux Database

AsiaFlux now stands in the entrance to a next research phase of integrative and/or inter-comparative studies. AsiaFlux activities are performed under diverse countries, languages and cultures. AsiaFlux will try to combine data from such activities. Coordinated database system is sure to facilitate the multidirectional studies in flux researching communities. Development of an easy-to-use open database system, "AsiaFlux Database (AsiaFluxDB)", is one of the key activities of AsiaFlux. An effective use of the AsiaFluxDB provides a number of benefits, including:

- Distinguishing (extract) essential characteristics of material exchanges between individual sites (ecosystems) and the atmosphere,
- Advances in understanding of material circulation in Asian region,
- Contribution to Asian environmental management strategy by extending cooperation with the modeling and remote sensing communities, and
- Efficient upgrading of observation techniques and analysis processes.

Participants

All data sets registered in AsiaFluxDB are provided by research group at observation sites in AsiaFlux network. Each data set is acquired and analyzed by data provider, and contents in the data set are copyrighted to the individual data provider unless stated otherwise. All data sets can be downloaded by anyone at will as long as they agree and abide by AsiaFluxDB Fair-Use Policy and register as AsiaFluxDB user. We hope this DB will greatly influence this study field and encourage further education for young researchers.

AsiaFlux Database and Data Policy Sub Work Group would like to provide a mutually beneficial database for both data providers and data users and wish your active participation in AsiaFluxDB. Additionally, we wish "AsiaFlux Database" becomes the entrance for new studies and produces new encounters.

Fair-Use Policy

You need to agree to the following Fair-Use-Policy before proceed to AsiaFluxDB.

- Any distribution of downloaded data to the third person for any use whatsoever is strictly prohibited.
- If you wish to distribute the downloaded data to the third person, after post-processing and reanalyzing, you must inform the data provider and obtain his/her/their approval.
- If your research directly conflicts to data provider's analysis, you must give clear priorities to the data provider. He/She may ask you to postpone the usage of the data.
- For any publication using data from AsiaFluxDB, the data provider must be informed and his/her approval must be obtained prior to publishing. The data provider may request co-authorship. A proper acknowledgement to the data provider and AsiaFluxDB is required.
- All data users are required to provide reprints of paper/article using data from AsiaFluxDB to the data provider and AsiaFluxDB immediately after the publication.



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News Letter

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[No.11 ~ No.15](#)

[No.6 ~ No.10](#)

[No.1 ~ No.5](#)

No.19

September 26, 2006 [[PDF \(1.013KB\)](#)]

- Report on the AsiaFlux Training Course 2006 by N. Saigusa et al
- Report on the ChinaFLUX Training Course 2006 by X. Wen et al
- Response Characteristics of VAISALA CO2 Sensors and its Correction for the Accurate Estimation of Soil CO2 Efflux by Y. Mizoguchi and Y. Ohtani
- Introduction to the Research at Kog-Ma Watershed, Northern Thailand by N. Tanaka et al
- Announcement for the "AmeriFlux Science Team Meeting" in Boulder, USA

 <http://www.asiaflux.net/>



Dr. Hideji Kida,
professor emeritus at
Kyoto University
(from his web page)

It is with deep regret that we must inform you of Dr. Hideji Kida's passing on November 13 at the age of 64.

He had been a member of the AsiaFlux steering committee from its establishment.

He was professor emeritus at Kyoto University, internationally recognized atmospheric science researcher, served as a councilor of the Japan Geoscience Union and director of the Meteorological Society of Japan.

We are deeply sorry for the loss with remembrance of him and his great achievement.

In Nov.29,2006
at the opening of the AsiaFlux Workshop 2006