Introduction to AsiaFlux Database

AsiaFlux Database and Data Policy Sub Work Group

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Why we need database ?

The results of AsiaFlux community in recent years

- Increases of tower-based field observations at diverse Asian ecosystems
- Accumulation of site-specific observed data sets for several years
- Advancement of our understandings of material cycle circulation/dynamics at each ecosystem

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

What kind of data we need?

Required data sets for the next research phase
- data sets of various time-space scales
- data sets obtained from various points of views

- Eddy covariance fluxes at diverse Asian ecosytems
- Key micrometeorological data
- Ecosystem/Soil respiration data
- Results of ecological surveys
- Wide area information from remote sensing ・・・
- Map of model output data
- Biochemical research

We need an **original database**,
as a collecting/sending station
for systematically-arranged data sets

"AsiaFluxDB"is now being developed!

What about AsiaFluxDB ?

- An easy-to-use open DB system
- Sufficient protection of rights of data providers
- Acceptance of wide-ranging data sets not to be confined to eddy covariance fluxes and meteorological data
- Ease of maintenance and improvement
- Cost-efficient DB for continuous keeping

How do we protect data provider's right?

The backbone of AsiaFluxDB is, observation data obtained from persistent efforts of the well-meaning researchers. All AsiaFluxDB users are required to respect the Fair-Use Policy in order to guarantee the rights of researcher(s).

Fair-Use policy

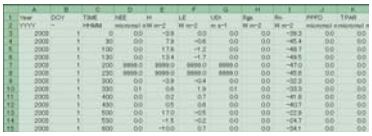
1) Prohibition of distribution of downloaded data to the third person.
2) If datauser wish to distribute the downloaded data to the third person, after post-processing and reanalyzing, datauser must inform the data provider and obtain his/her/their approval.
3) Dataprovider may require datauser to clear 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.

Downloading procedure

1. Registration Form to obtain user ID and password.
2. Fill in Downloading Form with your contact address, purpose of use, and research and publication plan. Data provider will contact you within 7days of downloading if he/she finds any concern. Please resolve the issue(s) in timely manner.
3. Refer to Data Description Form for details.

Example of Micrometeorology・Flux dataset

Document file (Word → PDF)	Contact address, position, vegetation, soil, climate, etc Measurement list・instrument・method Data version, Data processing(calculation, QC/QA, gap-filling)
Data file (CSV)	Radiation, Temperature, Wind speed, etc Sensible/Latent flux・CO_2 flux(EC)



Example of document file (Right) and data file (csv) (Above).

You can access AsiaFluxDB from New AsiaFlux web page!!

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