# Dias Observation data of FFPRI FluxNet Yamashiro forest hydrology meteorology research site

#### 1. IDENTIFICATION INFORMATION

Name	Observation data of FFPRI FluxNet Yamashiro forest hydrology meteorology research site	
Abbreviation	FFNET YMS	
Metadata Identifier	FFPRI_fluxnet_YMS20230727081859-en	

#### 2. CONTACT

# 2.1 CONTACT on DATASET

Name	Katsumi YAMANOI	
Organization	Cold Regions Environment Conservation Research Group, Hokkaido Research Center, Forestry and Forest Products Research Institute	
Address	Hitsujigaoka-7, Toyohira, Sapporo, Hokkaido, 062-8516, Japan	
TEL	011-590-5528	
FAX	011-851-4167	
E-mail	yamanoi@affrc.go.jp	

#### 2.2 CONTACT on PROJECT

# 3. DOCUMENT AUTHOR

Name	FFPRI Flux Observation Network	
Organization	Forestry and Forest Products Research Institute	
E-mail	ffnet@ffpri.affrc.go.jp	

# 4. DATASET CREATOR

Name	FFPRI Flux Observation Network	
Organization	Forestry and Forest Products Research Institute	
E-mail	ffnet@ffpri.affrc.go.jp	

# 5. DATE OF THIS DOCUMENT

2023-07-27

#### 6. DATE OF DATASET

creation : 2012-11-13

#### 7. DATASET OVERVIEW

#### 7.1 Abstract

Forestry and Forest Products Research Institute Flux Observation Network is performing observational research focused on measuring carbon dioxide flux using micrometeorological techniques in Yamashiro research site as well as other 5 research sites in Japan. This dataset includes the following 18 items.

Precipitation

Air temperature

Relative humidity

Wind velocity

Wind direction

Solar radiation (downward)

Solar radiation (upward)

Photosynthetically active radiation (downward)

Photosynthetically active radiation (upward)

Net radiation

Soil heat flux

Sensible heat flux

Friction velocity

CO2 flux

CO2 storage change in canopy air layer

Net ecosystem exchange

Ecosystem Respiration

Gross Primary Production

#### 7.2 Topic Category(IS019139)

climatologyMeteorologyAtmosphere

environment

#### 7.3 Temporal Extent

Begin Date
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End Date	Under Continuation
Temporal Characteristics	30minute

# 7.4 Geographic Bounding Box

North latitude	bound	34. 7948
West longitude	bound	135. 8462
Eastbound longitude		135. 8462
South latitude	bound	34. 7948

# 7.5 Grid

# 7.6 Geographic Description

# 7.7 Keywords

#### 7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name	
theme	Agriculture, Ecosystems, Weather GEOSS		
theme	Agriculture > Forest Science, Atmosphere > Precipitation > GCMD_science Precipitation Amount, Atmosphere > Atmospheric Temperature > Air Temperature, Atmosphere > Atmospheric Water Vapor > Humidity, Atmosphere > Atmospheric Winds > Surface Winds, Agriculture > Soils > Soil Heat Budget, Atmosphere > Atmospheric Chemistry > Carbon and Hydrocarbon Compounds > Carbon Dioxide		
theme	In Situ Land-based Platforms > AIR MONITORING STATIONS/ NETWORKS	GCMD_platform	
place	Asia > Eastern Asia > Japan	Country	
theme	Carbon (stores, uptake, flux), Evaporation, Photosynthetically Active Radiation (PAR), Precipitation, Surface Air Temperature, Surface Humidity, Surface Wind Direction, Surface Wind Speed	_	
theme	BIOGEOSCIENCES > Biosphere/atmosphere interactions	AGU	

# 7.7.2 Keywords on Project

#### 7.8 Online Resource

FFPRI FluxNet website: http://www2.ffpri.affrc.go.jp/labs/flux/

#### 7.9 Data Environmental Information

#### 7.10 Distribution Information

name	version	specification
csv	See FFPRI FluxNet website	

#### 8. DATA PROCESSING

#### 8.1 Data Processing (1)

# 8.1.1 General Explanation of the data producer's knowledge about the lineage of a dataset

See documents (Meta information, PDF) available on the web

#### 8.1.2 Data Source

Data Source Citation Name	Description of derived parameters and processing
	techniques used

#### 9. DATA REMARKS

See documents (Meta information, PDF) available on the web

#### 10. DATA POLICY

#### 10.1 Data Policy by the Data Provider

- 1. The Forestry and Forest Products Research Institute holds the copyright for all numeric and image data (referred to as "data" below unless otherwise noted) supplied from FFPRI FluxNet.
- 2. The data may be used only for academic research or educational purposes. It may not be used for commercial uses.
- 3. Even if the purpose is for academic research or education, the use of the data may be refused if such use interferes with the purposes of other data users. In addition, the data provider may claim the right of to be a coauthor of any research results that use FFPRI FluxNet data.
- 4. An application for use and approval are required to use the numeric data. The application contents are examined by the appropriate data provider and other concerned parties. Permission to use numeric data (term is limited to four weeks) is granted only to the individual making application. It is prohibited to transfer the numeric data to a third party.
- 5. FFPRI FluxNet is not responsible for any errors or mistakes included in the data. The user assumes all responsibility for using the data. The data content may be updated.
- 6. In order to provide more accurate data, the user should contact the office below if errors or mistakes are discovered.

7. When publishing results that use this data, clearly indicate that FFPRI FluxNet data has been used and cite the main publication listed in the document file.

[Citation Example]

Forestry and Forest Products Research Institute. FFPRI FluxNet Database, (http://www2.ffpri.affrc.go.jp/labs/flux/)March 31st, 2010 (data publication date)

8. Contact the office below before results that use this data are published. If the results are published in printed media, send one copy to the address below.

FFPRI FluxNet Steering Committee,

Department of Meteorological Environment,

Forestry and Forest Products Research Institute

Matsunosato 1, Tsukuba, Ibaraki, 305-8687 JAPAN

e-mail: ffnet-db@ffpri.affrc.go.jp

#### 10.2 Data Policy by the Project

#### 11. LICENSE

#### 12. DATA SOURCE ACKNOWLEDGEMENT

#### 12.1 Acknowledge the Data Provider

Forestry and Forest Products Research Institute. FFPRI FluxNet Database, (http://www2.ffpri.affrc.go.jp/labs/flux/) March 31st, 2010 (data publication date)

#### 12.2 Acknowledge the Project

#### 13. REFERENCES

KOMINAMI Yuji, JOMURA Mayuko, DANNOURA Masako, GOTO Yoshiaki, TAMAI Koji, MIYAMA Takafumi, KANAZAWA Yoichi, KANEKO Shinji, OKUMURA Motonori, MISAWA Noriko, HAMADA Shogo, SASAKI Taizo, KIMURA Hitoshi, OHTANI Yoshikazu (2008) Biometric and eddy-covariance-based estimates of carbon balance for a warm-temperate mixed forest in Japan. Agricultural and Forest Meteorology, 148(5):723-737

KOMINAMI Yuji, MIYAMA Takafumi, TAMAI Koji, NOBUHIRO Tatsuhiko, GOTO Yoshiaki (2003) Characteristics of CO2 flux over a forest on complex topography. Tellus B, 55(3):313-321

TAMAI Koji, KOMINAMI Yuji, MIYAMA Takafumi, GOTO Yoshiaki, OHTANI Yoshikazu (2008) Topographical Effects on Soil Respiration in a Decious Forest -The Case of Weathered Granite Region in Southern Kyoto Prefecture-. Journal of Agricultural Meteorology, 64(4):215-222

MIYAMA Takafumi, KOMINAMI Yuji, TAMAI Koji, GOTO Yoshiaki, Teruhiko Kawahara, JOMURA Mayuko, DANNOURA Masako (2006): Components and seasonal variation of nighttime total ecosystem respiration in a Japanese broadleaved secondary forest. Tellus B, 58(5):550-559

GOTO Yoshiaki, KOMINAMI Yuji, MIYAMA Takafumi, TAMAI Koji, KANAZAWA Yoichi (2003) Aboveground Biomass and Net Primary Production of a Broad-leaved Secondary Forest in the Southern Part of

Kyoto Prefecture, Central Japan. Bulletin of the Forestry and Forest Products Research Institute, 2(2):115-147 [in Japanese with an English abstract]

KOMINAMI Yuji, JOMURA Mayuko, ATAKA Mioko, TAMAI Koji, MIYAMA Takafumi (2012) Heterotrophic respiration causes seasonal hysteresis in soil respiration in a warm-temperate forest. Journal of Forest Research, 17(3):296-304.