



# Observation data of FFPRI FluxNet Appi forest meteorology research site

## 1. IDENTIFICATION INFORMATION

Name	Observation data of FFPRI FluxNet Appi forest meteorology research site
Abbreviation	FFNET API
Metadata Identifier	FFPRI_fluxnet_API20230727081704-en

## 2. CONTACT

### 2.1 CONTACT on DATASET

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### 2.2 CONTACT on PROJECT

## 3. DOCUMENT AUTHOR

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## 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

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creation : 2012-11-28

## 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 Appi 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	2000-01-01
End Date	Under Continuation
Temporal Characteristics	30minute

## 7.4 Geographic Bounding Box

North latitude	bound	40.0017
West longitude	bound	140.9375
Eastbound longitude		140.9375
South latitude	bound	40.0017

## 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 > 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	GCMD_science
theme	In Situ Land-based Platforms > AIR MONITORING STATIONS/ NETWORKS	GCMD_platform
place	Asia > Eastern Asia > Japan	Country
theme	Carbon (stores, uptake, flux), Evapotranspiration, Photosynthetically Active Radiation (PAR), Precipitation, Surface Air Temperature, Surface Wind Direction, Surface Wind Speed	GEO_COP
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

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## 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
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## 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]

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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.

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e-mail: [ffnet-db@ffpri.affrc.go.jp](mailto: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

YASUDA Yukio, SAITO Takeshi, HOSHINO Daisuke, ONO Kenji, OHTANI Yoshikazu, MIZOGUCHI Yasuko, MORISAWA Takeshi(2012): Carbon balance in a cool-temperate deciduous forest in northern Japan: seasonal and interannual variations, and environmental controls of its annual balance. *Journal of Forest Research*, 17(3):253-267.