

## TITLE

CEOP\_Tsukuba\_MRI\_20090701\_20091231.sfc

## CONTACT

Sigenori Haginoya  
Meteorological Research Institute  
1-1, Nagamine Tsukuba Ibaraki 305-0052 JAPAN  
E-mail: shaginoy@mri-jma.go.jp

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## 1. 0 DATASET OVERVIEW

### 1.1 Introduction

Intensive meteorological observations in the yard of Meteorological Research Institute, Tsukuba Japan, have been conducted since November of 2002 in order to provide long-term monitoring of the soil heat flux at Tsukuba area. This area, being located on the Kanto plains is typical suburbs area. The surface of observation filed is covered by grass. Grass is cut several times per year.

### 1.2 Time period covered by the data

Start: 1 July 2009, 00:00  
End: 31 December 2009, 23:30

### 1.3 Temporal characteristics of the data

All parameters are recoded every 30 minutes intervals.

### 1.4 Physical location of the measurement

Latitude: 36° 03' 09" N  
Longitude: 140° 07' 24" E  
Elevation: 25.2 m a.s.l.

### 1.5 Data source

Original data is provided by MRI.

### 1.6 WWW address references

## 2.0 INSTRUMENTATION DESCRIPTION

### 2.1 Platform

The sensors are placed on the ground.

### 2.2 Description of the instrumentation

Parameter	Model	Manufacturer
Soil heat flux	HFP01SC	Hukseflux(USA)

### 2.3 Instrumentation specification

Parameter	Sensor Type	Height of sensor (m)	Accuracy	Resolution
Soil heat flux	thermopile	-0.02	+/-3%	1 W/m <sup>2</sup>
Soil heat flux	thermopile	-0.10	+/-3%	1 W/m <sup>2</sup>
Soil heat flux	thermopile	-0.50	+/-3%	1 W/m <sup>2</sup>

## 3.0 DATA COLLECTION AND PROCESSING

### 3.1 Description of data collection

Data are downloaded from the AWS every 30minutes. Then, data are sent to data server PC, where they are processed.

### 3.2 Description of derived parameters and processing techniques used

Soil heat fluxes are the previous 30 minutes average values.

## 4.0 QUALITY CONTROL PROCEDURES

For all parameters, the data has been visually checked, looking for extremely low/high values and/or periods with constant values. The quality control flags follow the CEOP data flag definition document.

## 5.0 GAP FILLING PROCEDURES

No gap filling procedure was applied.

## 6.0 DATA REMARKS

### 6.1 PI's assessment of the data

#### 6.1.1 Instruments problems

#### 6.1.2 Quality issues

## 6.2 Missing data periods

## **7.0 REFERENCE REQUIREMENTS**

Original data was collected and is provided within the framework of the CEOP Tsukuba Project, funded by...

## **8.0 REFERENCES**