

# AE.H2OFlux\_G - Two flux stations, Gourma meso-scale site

## General information

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Dataset name: AE.H2OFlux\_G - Two flux stations, Gourma meso-scale site  
Created on: 2006-01-20

### Contact(s)

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Timouk Franck - LMTG - franck.timouk@ird.fr (PI or Lead scientist)  
Lloyd Colin - CEH Wallingford - crl@ceh.ac.uk (PI or Lead scientist)

### Period

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Date begin (yyyy-mm-jj): 2005-01-01  
Date end (yyyy-mm-jj): 2008-01-01

### Project(s)

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AMMA > AMMA-EOP

## Data description

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### Abstract

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Measure the various components of the local-scale energy budget and CO<sub>2</sub> flux. Contribute to the flux station network over the AMMA regional transect.

### Observing strategy

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Direct measure of micrometeorological variables. Direct eddy correlation measurements over forest characteristic of the Ouémé landscape of sensible heat, momentum, evapotranspiration and CO<sub>2</sub>.

## Geographic information

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### Gourma

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Location name: Gourma  
Platform type: GROUND STATIONS  
West bounding coordinate (°): 1.566  
East bounding coordinate (°): 8  
North bounding coordinate (°): 15.345  
South bounding coordinate (°): 15.224

## Measured parameters

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### Relative humidity

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Parameter name:	Relative humidity
Parameter keyword:	Atmosphere > Atmospheric Water Vapor
Unit:	percent - %
Date begin (yyyy-mm-jj):	2005-01-01
Date end (yyyy-mm-jj):	2008-01-01

### Wind Direction

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Parameter name:	Wind Direction
Parameter keyword:	Atmosphere > Atmospheric Winds > Wind Direction
Unit:	°North - °North
Date begin (yyyy-mm-jj):	2005-01-01
Date end (yyyy-mm-jj):	2008-01-01

### Soil Temperature

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Parameter name:	Soil Temperature
Parameter keyword:	Land Surface > Soils > Soil Temperature
Unit:	Degrees Celsius - °C
Date begin (yyyy-mm-jj):	2005-01-01
Date end (yyyy-mm-jj):	2008-01-01

### Outgoing Longwave Radiation

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Parameter name:	Outgoing Longwave Radiation
Parameter keyword:	Atmosphere > Atmospheric Radiation > Outgoing Longwave Radiation
Unit:	Watt per square meter - W.m-2
Date begin (yyyy-mm-jj):	2005-01-01
Date end (yyyy-mm-jj):	2008-01-01

### Outgoing Shortwave Radiation

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Parameter name:	Outgoing Shortwave Radiation
Parameter keyword:	Atmosphere > Atmospheric Radiation
Unit:	Watt per square meter - W.m-2
Date begin (yyyy-mm-jj):	2005-01-01
Date end (yyyy-mm-jj):	2008-01-01

### U Wind component

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Parameter name:	U Wind component
Parameter keyword:	Atmosphere > Atmospheric Winds
Unit:	meter per second - m/s
Date begin (yyyy-mm-jj):	2005-01-01

Date end (yyyy-mm-jj): 2008-01-01

## V Wind component

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Parameter name: V Wind component  
Parameter keyword: Atmosphere > Atmospheric Winds  
Unit: meter per second - m/s  
Date begin (yyyy-mm-jj): 2005-01-01  
Date end (yyyy-mm-jj): 2008-01-01

## W wind component

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Parameter name: W wind component  
Parameter keyword: Atmosphere > Atmospheric Winds  
Unit: meter per second - m/s  
Date begin (yyyy-mm-jj): 2005-01-01  
Date end (yyyy-mm-jj): 2008-01-01

## Air Pressure

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Parameter name: Air Pressure  
Parameter keyword: Atmosphere > Atmospheric Pressure  
Unit: hecto Pascal - hPa  
Date begin (yyyy-mm-jj): 2005-01-01  
Date end (yyyy-mm-jj): 2008-01-01

## Air Temperature

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Parameter name: Air Temperature  
Parameter keyword: Atmosphere > Atmospheric Temperature > Surface Temperature > Air Temperature  
Unit: Kelvin - K  
Date begin (yyyy-mm-jj): 2005-01-01  
Date end (yyyy-mm-jj): 2008-01-01

## Soil moisture

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Parameter name: Soil moisture  
Parameter keyword: Land Surface > Soils  
Unit: cubic meter per cubic meter - m3/m3  
Date begin (yyyy-mm-jj): 2005-01-01  
Date end (yyyy-mm-jj): 2008-01-01

## Sonic Temperature

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Parameter name: Sonic Temperature  
Parameter keyword: Atmosphere > Atmospheric Temperature  
Unit: Degrees Celsius - °C  
Date begin (yyyy-mm-jj): 2005-01-01  
Date end (yyyy-mm-jj): 2008-01-01

## U\*

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Parameter name: u\*  
Parameter keyword: Atmosphere > Atmospheric Winds  
Unit: meter per second - m/s  
Date begin (yyyy-mm-jj): 2005-01-01  
Date end (yyyy-mm-jj): 2008-01-01

## Rainfall

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Parameter name: Rainfall  
Parameter keyword: Atmosphere > Precipitation  
Unit: millimeter - mm  
Date begin (yyyy-mm-jj): 2005-01-01  
Date end (yyyy-mm-jj): 2008-01-01

## CO2 concentration

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Parameter name: CO2 concentration  
Parameter keyword: Atmosphere > Atmospheric Chemistry  
Unit: milligramm per cubic meter - mg/m3  
Date begin (yyyy-mm-jj): 2005-01-01  
Date end (yyyy-mm-jj): 2008-01-01

## H2O concentration

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Parameter name: H2O concentration  
Parameter keyword: Biosphere > Vegetation  
Unit: milligramm per cubic meter - mg/m3  
Date begin (yyyy-mm-jj): 2005-01-01  
Date end (yyyy-mm-jj): 2008-01-01

## Incoming Longwave Radiation

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Parameter name: Incoming Longwave Radiation  
Parameter keyword: Atmosphere > Atmospheric Radiation  
Unit: Watt per square meter - W.m-2  
Date begin (yyyy-mm-jj): 2005-01-01  
Date end (yyyy-mm-jj): 2008-01-01

## Incoming Shortwave Radiation

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Parameter name: Incoming Shortwave Radiation  
Parameter keyword: Atmosphere > Atmospheric Radiation  
Unit: Watt per square meter - W.m-2  
Date begin (yyyy-mm-jj): 2005-01-01  
Date end (yyyy-mm-jj): 2008-01-01

## Data use information

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Use constraints:

Permission is granted to use these data in research and publications when accompanied by the following statement: "The AMMA-CATCH regional observing system was set up thanks to an incentive funding of the French Ministry of Research that allowed pooling together various pre-existing small scale observing setups. The continuity and long term perenity of the measurements are made possible by an undisrupted IRD funding since 1990 and by a continuous CNRS-INSU funding since 2005."