

# AE.SHFlux\_Nc - Two flux stations, Niger meso-scale site

## General information

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Dataset name: AE.SHFlux\_Nc - Two flux stations, Niger meso-scale site  
Created on: 2006-01-20

### Contact(s)

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### 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. 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 degraded fallow and millet characteristic of the Wankama and Banizounbou landscape of sensible heat, momentum, and by inference - evapotranspiration.

## Geographic information

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### Banizoumbou

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Location name: Banizoumbou  
Platform type: GROUND STATIONS  
West bounding coordinate (°): 2.63  
East bounding coordinate (°): 2.63  
North bounding coordinate (°): 13.52  
South bounding coordinate (°): 13.52

## Wankama

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Location name:	Wankama
Platform type:	GROUND STATIONS
West bounding coordinate (°):	2.64
East bounding coordinate (°):	2.64
North bounding coordinate (°):	13.53
South bounding coordinate (°):	13.53

## Measured parameters

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### Air Temperature

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

### Relative humidity

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Parameter name:	Relative humidity
Parameter keyword:	Atmosphere > Atmospheric Water Vapor > Water Vapor Indicators > Humidity
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 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 > Surface Thermal Properties
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 > 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 > Shortwave 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

## Soil moisture

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Parameter name: Soil moisture  
Parameter keyword: Land Surface > Soils > Soil Moisture/Water Content  
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*
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

## Incoming longwave radiation

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Parameter name:	Incoming longwave radiation
Parameter keyword:	Atmosphere > Atmospheric Radiation > 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

## Incoming Shortwave Radiation

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Parameter name:	Incoming Shortwave Radiation
Parameter keyword:	Atmosphere > Atmospheric Radiation > Shortwave 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 uninterrupted IRD funding since 1990
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and by a continuous CNRS-INSU funding since 2005."

Data policy:

AMMA data policy

Database:

AMMA database

Original data format(s):

NetCDF