

AE.RS_2 - Radiosondes - Sahelian Array

General information

Dataset name: AE.RS_2 - Radiosondes - Sahelian Array
Created on: 2006-06-01

Contact(s)

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Period

Date begin (yyyy-mm-jj): 2005-01-01
Date end (yyyy-mm-jj): 2007-12-31

Project(s)

AMMA > AMMA-EOP

Data description

Abstract

(i) To measure fluxes and other diagnostics in this array; (ii) to observe the propagation of weather system from the East of the continent to the Atlantic; (iii) to help validating satellite winds and temperature and doing data assimilation studies.

Observing strategy

Routine sampling at 1, 2 or 4 soundings per day (depending on station), with possible intensive phases of up to 8 soundings per day (see TT9).

Instrument information

Sensor

Instrument type: RADIOSONDES

Geographic information

Sahelian Array

Location name:	Sahelian Array
Platform type:	GROUND STATIONS
West bounding coordinate (°):	-22.95
East bounding coordinate (°):	47.4833
North bounding coordinate (°):	36.8333
South bounding coordinate (°):	-19.9833
Altitude min:	15.28
Altitude max:	235564.81

Measured parameters

Air Temperature

Parameter name:	Air Temperature
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):	2007-12-31

Dew Point Temperature

Parameter name:	Dew Point Temperature
Parameter keyword:	Atmosphere > Atmospheric Water Vapor > Water Vapor Indicators > Dew Point Temperature
Unit:	Degrees Celsius - °C
Date begin (yyyy-mm-jj):	2005-01-01
Date end (yyyy-mm-jj):	2007-12-31

Wind Direction

Parameter name:	Wind Direction
Parameter keyword:	Atmosphere > Atmospheric Winds > Wind Direction
Unit:	degrees - degrees
Date begin (yyyy-mm-jj):	2005-01-01
Date end (yyyy-mm-jj):	2007-12-31

Wind Speed

Parameter name:	Wind Speed
Parameter keyword:	Atmosphere > Atmospheric Winds > Wind Speed
Unit:	meters per second - m/s

Date begin (yyyy-mm-jj): 2005-01-01
Date end (yyyy-mm-jj): 2007-12-31

Vertical Wind Motion

Parameter name: Vertical Wind Motion
Parameter keyword: Atmosphere > Atmospheric Winds > Vertical Wind Motion
Unit: meters per second - m/s
Date begin (yyyy-mm-jj): 2005-01-01
Date end (yyyy-mm-jj): 2007-12-31

GPS altitude

Parameter name: GPS altitude
Parameter keyword: Atmosphere > Altitude
Unit: meters
Date begin (yyyy-mm-jj): 2005-01-01
Date end (yyyy-mm-jj): 2007-12-31

Humidity

Parameter name: 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): 2007-12-31

Air Pressure

Parameter name: Air Pressure
Parameter keyword: Atmosphere > Atmospheric Pressure > Atmospheric Pressure Measurements
Unit: millibars - mbar
Date begin (yyyy-mm-jj): 2005-01-01
Date end (yyyy-mm-jj): 2007-12-31

Data use information

Use constraints: AMMA data policy