

# AE.RS\_1 - Radiosondes - Monsoon Array

## General information

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Dataset name: AE.RS\_1 - Radiosondes - Monsoon Array  
Created on: 2006-04-07

### Contact(s)

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### Period

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

### Project(s)

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AMMA > AMMA-EOP

## Data description

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### Abstract

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- (i) To measure fluxes and other diagnostics in the southern wet zone;
- (ii) to observe the seasonal, intraseasonal and synoptic evolution of the monsoon layer;
- (iii) to observe the dynamical structures of the southern track of African Easterly Waves and their relation to MCSs (meso-vortices).

### Observing strategy

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Routine sampling at 1, 2 or 4 soundings per day (depending on station), with intensive phases of up to 8 soundings per day associated with I5 IOP patterns (see TT8)

## Instrument information

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### Sensor

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Instrument type: RADIOSONDES  
Manufacturer: Vaisala  
Model: RS92

## Geographic information

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### Monsoon Array

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Location name:	Monsoon Array
Platform type:	GROUND STATIONS
West bounding coordinate (°):	-22.95
East bounding coordinate (°):	47.4833
North bounding coordinate (°):	48.701
South bounding coordinate (°):	-19.9833
Altitude min:	0.68
Altitude max:	95713.95

## Measured parameters

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### Air Temperature

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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

### Wind Direction

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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

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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

### V Wind component

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

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

## Dew Point Temperature

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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

## Mixing Ratio

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Parameter name: Mixing Ratio  
Parameter keyword: Atmosphere > Atmospheric Water Vapor  
Unit: grams per kilogram - g/kg  
Date begin (yyyy-mm-jj): 2005-01-01  
Date end (yyyy-mm-jj): 2007-12-31

## U Wind component

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Parameter name: U Wind component  
Parameter keyword: Atmosphere > Atmospheric Winds  
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

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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

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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

## Air Pressure

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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

## Humidity

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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

## Data use information

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Use constraints: AMMA data policy  
Database: AMMA database