

AE.Dsd_Or - Parsivel Disdrometer, Nangatchori

General information

Dataset name: AE.Dsd_Or - Parsivel Disdrometer, Nangatchori
Created on: 2005-12-13

Contact(s)

Gosset Marielle - GET - marielle.gosset@ird.fr (PI or Lead scientist)

Period

Date begin (yyyy-mm-jj): 2005-08-12
Date end (yyyy-mm-jj): 2005-10-10

Project(s)

AMMA > AMMA-EOP

Data description

Abstract

This instrument provides the rain drop size and fall speed distribution at ground level every minute. The raw data consist of 1mm drops spectrum, decomposed in 32x32 size/fall speed classes. In addition bulk parameters such as rain rate, water content and also a classification of precipitation type is given. The main objective is to validate the radar polarimetric data, and check the assumptions concerning drops size and shapes. The characteristic of the drop size distribution and their variability within a storm are related to the ongoing physical processes.

Observing strategy

Systematic acquisition of 1mm spectra within rain events simultaneously with the X-port radar data (distance 10 km). Calibration by comparison with gauges and/or calibrated beads.

Instrument information

Sensor

Instrument type: DISDROMETERS
Manufacturer: OTT
Model: Parsivel

Geographic information

NANGATCHORI

Location name:	NANGATCHORI
Platform type:	GROUND STATIONS
West bounding coordinate (°):	1.74
East bounding coordinate (°):	1.74
North bounding coordinate (°):	9.64
South bounding coordinate (°):	9.64

Measured parameters

Droplet Number

Parameter name:	Droplet Number
Parameter keyword:	Atmosphere > Precipitation
Unit:	no unit
Date begin (yyyy-mm-jj):	2005-08-12
Date end (yyyy-mm-jj):	2005-10-10

Fall velocity

Parameter name:	Fall velocity
Parameter keyword:	Atmosphere > Precipitation
Unit:	meters per second - m/s
Date begin (yyyy-mm-jj):	2005-08-12
Date end (yyyy-mm-jj):	2005-10-10

Droplet Size

Parameter name:	Droplet Size
Parameter keyword:	Atmosphere > Precipitation > Droplet Size
Unit:	millimeters - mm
Date begin (yyyy-mm-jj):	2005-08-12
Date end (yyyy-mm-jj):	2005-10-10

Data use information

Use constraints:	AMMA data policy
Data policy:	AMMA data policy