CL.Rain_N - Rainfall gauges network, Niger meso-site

General information

Dataset name:	CL.Rain_N - Rainfall gauges network, Niger meso-site
Created on:	2006-01-19

Contact(s)

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Period

Date begin (yyyy-mm-jj):	1990-03-21
Date end (yyyy-mm-jj):	2012-11-13

Project(s)

AMMA > AMMA-LOP

Data description

Abstract

Documentation of rainfall variability on the Niamey mesoscale site. One aim is to provide rainfall inputs for computing the water balance at the rain event and larger times; a second aim is to characterize the statistical properties of the rainfields and to study their scaling properties.

Observing strategy

Regular spatial distribution of the 30 gauges in order to cover the 17600 km² Area with a regular sampling of about 25x25 km²; this strategy results from previous studies, using a denser network of a hundred gauges on this site. These studies showed that a sampling resolution of about 30 km ensure a good documentation of the rainfall variability at the time scale of the rain event.

Instrument information

Sensor

Instrument type:	RAIN GAUGES
Manufacturer:	Elsyde
Model:	oedipe

Geographic information

Niamey mesoscale

Location name:	Niamey mesoscale
Plateform type:	GROUND STATIONS
West bounding coordinate (°):	1.6905
East bounding coordinate (°):	3.0588
North bounding coordinate (°):	13.847
South bounding coordinate (°):	12.9968
Altitude min:	187
Altitude max:	270

Measured parameters

Precipitation Amount (previous 5 minutes)

Parameter name:	Precipitation Amount (previous 5 minutes)
Parameter keyword:	Atmosphere > Precipitation
Unit:	millimeters - mm
Date begin (yyyy-mm-jj):	1990-03-21
Date end (yyyy-mm-jj):	2012-11-13

Precipitation Amount (previous hour)

Parameter name:	Precipitation Amount (previous hour)
Parameter keyword:	Atmosphere > Precipitation
Unit:	millimeters - mm
Date begin (yyyy-mm-jj):	1990-03-21
Date end (yyyy-mm-jj):	2012-11-13

Precipitation Amount (previous 24 hours)

Parameter name:	Precipitation Amount (previous 24 hours)
Parameter keyword:	Atmosphere > Precipitation
Unit:	millimeters - mm
Date begin (yyyy-mm-jj):	1990-03-21
Date end (yyyy-mm-jj):	2012-11-13

Data use information

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."

Data policy: AMMA data policy