

C9004.Rain_Nc - Rain gauges stations, 1990-2004, Niamey mesosite

General information

Dataset name: C9004.Rain_Nc - Rain gauges stations, 1990-2004, Niamey mesosite
Created on: 2011-04-21

Contact(s)

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Period

Date begin (yyyy-mm-jj): 1990-03-20
Date end (yyyy-mm-jj): 2004-10-26

Project(s)

OBSERVATORIES > AMMA-CATCH

Data description

Abstract

Measure the rainfall over the Niamey region to estimate the rainfall forcing over the instrumented AMMA-CATCH Niger supersite (for the study of hydrological processes and the mesoscale water budget).

Elaborated products such as rainfall maps on a regular grid (ordinary kriging): 0.25°/3h; 1°/6h; 0.01°/ rainfall events and rain fields on regular grid (Lagrangian Kriging): 0.01°/5 minute exist. To get them, please contact the PI.

Observing strategy

Direct measurements of rainfall thanks to tipping bucket gages. The interception surface for each gage is 400 cm², each tip is equivalent to an amount of 0.5 mm of rain.

Instrument information

Sensor

Instrument type: RAIN GAUGES
Manufacturer: Précis Mécanique
Model: 3032

Geographic information

Niamey mesosite

Location name:	Niamey mesosite
Platform type:	GROUND STATIONS
West bounding coordinate (°):	1.65
East bounding coordinate (°):	3.093
North bounding coordinate (°):	14.315
South bounding coordinate (°):	13
Altitude min:	187
Altitude max:	278

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):	1990-03-20
Date end (yyyy-mm-jj):	2004-10-26

Precipitation Amount (previous hour)

Parameter name:	Precipitation Amount (previous hour)
Parameter keyword:	Atmosphere > Precipitation
Unit:	millimeters - mm
Date begin (yyyy-mm-jj):	1990-03-20
Date end (yyyy-mm-jj):	2004-10-26

Precipitation Amount (previous 24 hours)

Parameter name:	Precipitation Amount (previous 24 hours)
Parameter keyword:	Atmosphere > Precipitation
Unit:	millimeters - mm
Date begin (yyyy-mm-jj):	1990-03-20
Date end (yyyy-mm-jj):	2004-10-26

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 uninterrupted IRD funding since 1990 and by a continuous CNRS-INSU funding since 2005."
Original data format(s):	csv file (comma separated values)