

AS.SODAR_N - Four acoustic sodars, around Niamey

General information

Dataset name: AS.SODAR_N - Four acoustic sodars, around Niamey
Created on: 2006-01-10

Contact(s)

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Period

Date begin (yyyy-mm-jj): 2006-05-27
Date end (yyyy-mm-jj): 2006-08-18

Project(s)

AMMA > AMMA-SOP

Data description

Abstract

Observation of the diurnal cycle of the WAM winds. Also to observe measurement of coherent mesoscale circulations in association with surface flux variability.

Observing strategy

To be deployed during SOP1 and SOP2. A network of 4 instruments at spacings of approximately 50km will be used to observe the wind structure of the lower layers of the monsoon circulation, and the array may be used to derive convergence patterns.

Instrument information

Sensor

Instrument type: SODAR > Sound Detection and Ranging
Manufacturer: Scintec AG
Model: Scintec Fas64 Doppler Sodar

Geographic information

Niamey

Location name:	Niamey
Platform type:	GROUND STATIONS
West bounding coordinate (°):	2.0379
East bounding coordinate (°):	2.9546
North bounding coordinate (°):	13.8361
South bounding coordinate (°):	13.0233
Altitude min:	206
Altitude max:	237

Measured parameters

U Wind component

Parameter name:	U Wind component
Parameter keyword:	Atmosphere > Atmospheric Winds
Unit:	meters per second - m/s
Date begin (yyyy-mm-jj):	2006-05-27
Date end (yyyy-mm-jj):	2006-08-18

Wind Direction

Parameter name:	Wind Direction
Parameter keyword:	Atmosphere > Atmospheric Winds > Wind Direction
Unit:	degrees - degrees
Date begin (yyyy-mm-jj):	2006-05-27
Date end (yyyy-mm-jj):	2006-08-18

Wind Speed

Parameter name:	Wind Speed
Parameter keyword:	Atmosphere > Atmospheric Winds > Wind Speed
Unit:	meters per second - m/s
Date begin (yyyy-mm-jj):	2006-05-27
Date end (yyyy-mm-jj):	2006-08-18

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):	2006-05-27
Date end (yyyy-mm-jj):	2006-08-18

V Wind component

Parameter name:	V Wind component
Parameter keyword:	Atmosphere > Atmospheric Winds
Unit:	meters per second - m/s
Date begin (yyyy-mm-jj):	2006-05-27
Date end (yyyy-mm-jj):	2006-08-18

Sodar Backscatter

Parameter name:	Sodar Backscatter
Parameter keyword:	Atmosphere > Atmospheric Winds
Unit:	dB
Date begin (yyyy-mm-jj):	2006-05-27
Date end (yyyy-mm-jj):	2006-08-18

Data use information

Use constraints:	AMMA data policy
Data policy:	AMMA data policy
Original data format(s):	NetCDF