

AS.UHF_O - UHF wind profiler Doppler radar, Djougou, Ouémé meso-scale site

General information

Dataset name: AS.UHF_O - UHF wind profiler Doppler radar, Djougou, Ouémé meso-scale site

Created on: 2006-03-31

Contact(s)

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Period

Date begin (yyyy-mm-jj): 2006-04-10

Date end (yyyy-mm-jj): 2006-11-14

Project(s)

AMMA > AMMA-SOP

Data description

Abstract

Continuous documentation of the Atmospheric Boundary Layer (ABL) and above in clear air or under precipitations: mean circulation, diurnal and nocturnal vertical development, turbulent processes. We expect observation well above the ABL that will permit to describe the free atmosphere circulation and convection. Retrieval of the synoptic 3D circulation parameters thanks to the profilers network operated in the AMMA domain. Documentation with height and time of the precipitation DSD.

Observing strategy

Permanent and continuous observation providing vertical profiles in two alternate collection modes: a Low Mode with data acquired between 75m and 4000m with a 75m radial resolution; a High Mode with data acquired between 150m and 12000m (expected during rains) with a 150m radial resolution. This cycle last about 6 minutes

Instrument information

Sensor

Instrument type:	WIND PROFILERS
Manufacturer:	Degreane Horizon
Model:	PCL1300

Geographic information

DJOUGOU

Location name:	DJOUGOU
Platform type:	GROUND STATIONS
West bounding coordinate (°):	1.855
East bounding coordinate (°):	1.855
North bounding coordinate (°):	9.8378
South bounding coordinate (°):	9.8378
Altitude min:	505
Altitude max:	13778

Measured parameters

Doppler Spectral Width

Parameter name:	Doppler Spectral Width
Parameter keyword:	Spectral/Engineering > Radar
Unit:	meters per second - m/s
Date begin (yyyy-mm-jj):	2006-04-10
Date end (yyyy-mm-jj):	2006-11-14

CN2 Reflectivity

Parameter name:	CN2 Reflectivity
Parameter keyword:	Spectral/Engineering > Radar
Unit:	m-2/3 - m-2/3
Date begin (yyyy-mm-jj):	2006-04-10
Date end (yyyy-mm-jj):	2006-11-14

U Wind component

Parameter name:	U Wind component
Parameter keyword:	Atmosphere > Atmospheric Winds
Unit:	meters per second - m/s
Date begin (yyyy-mm-jj):	2006-04-10

Date end (yyyy-mm-jj): 2006-11-14

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): 2006-04-10
Date end (yyyy-mm-jj): 2006-11-14

V Wind component

Parameter name: V Wind component
Parameter keyword: Atmosphere > Atmospheric Winds
Unit: meters per second - m/s
Date begin (yyyy-mm-jj): 2006-04-10
Date end (yyyy-mm-jj): 2006-11-14

Data use information

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