

AS.Drift_T1 - Stratospheric Balloon Driftsonde System, launched from Chad

General information

Dataset name: AS.Drift_T1 - Stratospheric Balloon Driftsonde System, launched from Chad
Created on: 2006-01-10

Contact(s)

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Period

Date begin (yyyy-mm-jj): 2006-08-29
Date end (yyyy-mm-jj): 2006-09-22

Project(s)

AMMA > AMMA-SOP

Data description

Abstract

The SBDS should be deployed during a continuous period of about six weeks balanced between SOP-C/D (convection) and SOP-E (cyclogenesis). It will allow to address several scientific issues :

- 1) complement the radiosounding network in regions void of measurements
- 2) impact of the assimilation of the dropsonde data
- 3) quantification of the performances of NCEP/ECMWF on the meteorological fields (wind speed and direction, pressure, temperature and moisture) in the AMMA region.
- 4) validation of research models (e.g. Méso-NH) for the understanding of the dynamical processes associated with convection and cyclogenesis.

Observing strategy

- SOP2: up to 15 SBDS of two different types will be launched at a flight level of about 60/50 hPa from N'Djaména in Tchad, producing about 600 dropsondings. Most of the dropsondings, typically 500 will be dedicated to the probing the African AMMA zone, the remaining ones will be done over the Atlantic Ocean for the study of hurricane genesis.
- SOP3: up to 10 SBDS will be launched from the same location as for SOP-2, producing about 500 dropsondings mainly for probing the cyclogenesis Atlantic zone.

Instrument information

Sensor

Instrument type: DROPSONDES
Manufacturer: NCAR

Geographic information

Chad

Location name: Chad
Platform type: BALLOONS
West bounding coordinate (°): -58.9736
East bounding coordinate (°): 8.3334
North bounding coordinate (°): 18.31
South bounding coordinate (°): 8.28
Altitude min: -6.23
Altitude max: 20328.8

Measured parameters

Air Pressure

Parameter name: Air Pressure
Parameter keyword: Atmosphere > Atmospheric Pressure > Atmospheric Pressure Measurements
Unit: millibars - mbar
Date begin (yyyy-mm-jj): 2006-08-29
Date end (yyyy-mm-jj): 2006-09-22

Air Temperature

Parameter name: Air Temperature
Parameter keyword: Atmosphere > Atmospheric Temperature > Surface Temperature > Air Temperature
Unit: Degrees Celsius - °C
Date begin (yyyy-mm-jj): 2006-08-29
Date end (yyyy-mm-jj): 2006-09-22

Dew Point Temperature

Parameter name: Dew Point Temperature
Parameter keyword: Atmosphere > Atmospheric Water Vapor > Water Vapor Indicators > Dew Point Temperature

Unit: Degrees Celsius - °C
Date begin (yyyy-mm-jj): 2006-08-29
Date end (yyyy-mm-jj): 2006-09-22

Wind Direction

Parameter name: Wind Direction
Parameter keyword: Atmosphere > Atmospheric Winds > Wind Direction
Unit: degrees - degrees
Date begin (yyyy-mm-jj): 2006-08-29
Date end (yyyy-mm-jj): 2006-09-22

Wind Speed

Parameter name: Wind Speed
Parameter keyword: Atmosphere > Atmospheric Winds > Wind Speed
Unit: meters per second - m/s
Date begin (yyyy-mm-jj): 2006-08-29
Date end (yyyy-mm-jj): 2006-09-22

V Wind component

Parameter name: V Wind component
Parameter keyword: Atmosphere > Atmospheric Winds
Unit: meters per second - m/s
Date begin (yyyy-mm-jj): 2006-08-29
Date end (yyyy-mm-jj): 2006-09-22

U Wind component

Parameter name: U Wind component
Parameter keyword: Atmosphere > Atmospheric Winds
Unit: meters per second - m/s
Date begin (yyyy-mm-jj): 2006-08-29
Date end (yyyy-mm-jj): 2006-09-22

Humidity

Parameter name: Humidity
Parameter keyword: Atmosphere > Atmospheric Water Vapor > Water Vapor Indicators > Humidity
Unit: percent - %
Date begin (yyyy-mm-jj): 2006-08-29
Date end (yyyy-mm-jj): 2006-09-22

Data use information

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