AS.POLIS_Ncb - Aerosol Depolarization and Raman Lidar, Banizoumbou, Niamey meso-scale site

General information

Dataset name:	AS.POLIS_Ncb - Aerosol Depolarization and Raman Lidar, Banizoumbou, Niamey meso-scale site
Created on:	2006-01-10

Contact(s)

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Period

Date begin (yyyy-mm-jj):	2006-01-11
Date end (yyyy-mm-jj):	2006-02-02

Project(s)

AMMA > AMMA-SOP

Data description

Abstract

Quasi continuous sampling of the vertical distribution of aerosol backscatter signal in the troposphere at Banizoumbou. The signals will be used to characterize the optical properties of the aerosol and differentiate between mineral dust and biomass burning aerosol.

Observing strategy

- Depolarization measurements 2-3 hours morning and evening: temporal resolution of 30 s.
- Raman measurements at nighttime, temporal resolution 15 – 30 min.
- during AMMA flights additional depolarization measurements will be conducted

Instrument information

Sensor

Instrument type:	LIDAR > Light Detection and Ranging
Manufacturer:	MIM
Model:	Raman and Depolarisation Lidar

Geographic information

Banizoumbou super site

Location name:	Banizoumbou super site
Plateform type:	GROUND STATIONS
West bounding coordinate (°):	2.15
East bounding coordinate (°):	2.66
North bounding coordinate (°):	13.52
South bounding coordinate (°):	13.4
Altitude min:	224
Altitude max:	250

Measured parameters

Lidar Extinction Coefficient

Parameter name:	Lidar Extinction Coefficient
Parameter keyword:	Spectral/Engineering > Lidar
Unit:	m-1 - m-1
Date begin (yyyy-mm-jj):	2006-01-11
Date end (yyyy-mm-jj):	2006-02-02

Lidar Backscatter Coefficient

Parameter name:	Lidar Backscatter Coefficient
Parameter keyword:	Spectral/Engineering > Lidar
Unit:	m-1 - m-1
Date begin (yyyy-mm-jj):	2006-01-11
Date end (yyyy-mm-jj):	2006-02-02

Lidar Depolarization

Parameter name:	Lidar Depolarization
Parameter keyword:	Spectral/Engineering > Lidar
Unit:	percent - %
Date begin (yyyy-mm-jj):	2006-01-11
Date end (yyyy-mm-jj):	2006-02-02

Data use information

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