

# AS.Dust\_Od - Aerosols measurements, Djougou, Ouémé meso-scale site

## General information

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Dataset name: AS.Dust\_Od - Aerosols measurements, Djougou, Ouémé meso-scale site  
Created on: 2006-01-12

### Contact(s)

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Pont Véronique - LA - OMP - ponv@aero.obs-mip.fr (PI or Lead scientist)

### Period

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Date begin (yyyy-mm-jj): 2005-11-10  
Date end (yyyy-mm-jj): 2006-12-03

### Project(s)

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AMMA > AMMA-SOP

## Data description

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### Abstract

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Transport and climatic impact of west-African aerosols; Hygroscopic and radiative properties of the mixing of aerosols (dust, biomass burning, fossil fuel combustion); zoom on organic functions of the carbonaceous aerosol (formation, transport, aging)

### Observing strategy

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During intensive observing periods, two spells a day of 2\*13 filters will be performed (2 DKT impactors: the first for mineral analysis, the second for carbonaceous analysis). Air sampling with pumps during two periods of some hours (to determine) integrating, firstly, the early morning pollution event and secondly, the afternoon photochemical episode (SOPA, SOPB 2). Continuous measurements of the aerosol distribution between 3nm and 300 nm with the SMPS. During wet season (SOPB 2), continuous measurements of the cloud condensation nuclei number, and of the size distribution at ambient humidity; variability of these size distributions at controlled humidity and temperature (D-SMPS). These measurements complete the dataset provided in the frame of the AE\_VAN\_OR Instrument. Continuous measurements of aerosols extinction with CIMEL microlidar. Continuous measurements of VOC concentrations over both periods.

## Instrument information

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### Sensor

Manufacturer:	GRIMM Technologies Inc.
Model:	1.108

## Geographic information

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### NANGATCHORI

Location name:	NANGATCHORI
West bounding coordinate (°):	1.733
East bounding coordinate (°):	1.733
North bounding coordinate (°):	9.633
South bounding coordinate (°):	9.633
Altitude min:	41500
Altitude max:	42800

## Measured parameter

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### Aerosol Size Distribution

Parameter name:	Aerosol Size Distribution
Parameter keyword:	Atmosphere > Aerosols
Unit:	particules per cubic decimeter
Date begin (yyyy-mm-jj):	2005-11-10
Date end (yyyy-mm-jj):	2006-12-03

## Data use information

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