

# AS.RSO3\_Od - PTU and ozone soundings, Cotonou

## General information

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Dataset name: AS.RSO3\_Od - PTU and ozone soundings, Cotonou  
Created on: 2006-01-12

### Contact(s)

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### Period

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Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-10-01

### Project(s)

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AMMA > AMMA-SOP

## Data description

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### Abstract

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Sampling the vertical distribution of ozone in the troposphere and in the stratosphere at the vicinity of Cotonou. Characterisation of the seasonal (and interannual if possible) variations of ozone over equatorial Africa. Assessment of transport pathways from the different source regions. More over, this sounding aims to complement the SHADOZ network which provide no ozone data over continental equatorial Africa except Nairobi so far. This network aims to characterize the ozone distribution in the tropics and thus to participate to the validation of the AURA satellite products.

### Observing strategy

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One sounding a week for the two years of the EOP (Dec. 2004-Nov. 2006) at fixed day and time. The frequency will be three times a week during the SOP (Jun-Aug 2006).

## Site information

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Location name: COTONOU  
Platform type: GROUND STATIONS  
West bounding coordinate (°): 2.23  
East bounding coordinate (°): 2.23  
North bounding coordinate (°): 6.21  
South bounding coordinate (°): 6.21

Altitude min: 10  
Altitude max: 31520

## Instrument 1 (OZONE SENSOR)

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### Sensor

Instrument type: OZONE SENSOR  
Manufacturer: SPC  
Model: ECC-6A

### Measured parameter: Ozone Mixing Ratio

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Parameter name: Ozone Mixing Ratio  
Parameter keyword: Atmosphere > Atmospheric Chemistry  
Unit: ppmv  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-10-01

### Measured parameter: Ozone Partial Pressure

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Parameter name: Ozone Partial Pressure  
Parameter keyword: Atmosphere > Atmospheric Chemistry  
Unit: millipascals - mPa  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-10-01

## Instrument 2 (RADIOSONDES)

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### Sensor

Instrument type: RADIOSONDES  
Manufacturer: Vaisala  
Model: RS80

### Measured parameter: Wind Direction

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Parameter name: Wind Direction  
Parameter keyword: Atmosphere > Atmospheric Winds > Wind Direction  
Unit: degrees - degrees  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-10-01

### Measured parameter: Wind Speed

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Parameter name: Wind Speed  
Parameter keyword: Atmosphere > Atmospheric Winds > Wind Speed  
Unit: meters per second - m/s

Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-10-01

### Measured parameter: Air Pressure

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Parameter name: Air Pressure  
Parameter keyword: Atmosphere > Atmospheric Pressure  
Unit: millibars - mbar  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-10-01

### Measured parameter: Air Temperature

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Parameter name: Air Temperature  
Parameter keyword: Atmosphere > Atmospheric Temperature > Surface Temperature > Air Temperature  
Unit: Degrees Celsius - °C  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-10-01

### Measured parameter: Humidity

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Parameter name: Humidity  
Parameter keyword: Atmosphere > Atmospheric Water Vapor > Water Vapor Indicators > Humidity  
Unit: percent - %  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-10-01

### Data use information

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