

# UPS-OVLI RPAS\_Save

## General information

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Dataset name: UPS-OVLI RPAS\_Save  
Dataset DOI: 10.6096/DACCIWA.1618  
Created on: 2016-12-21

## Contact(s)

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## Period

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Date begin (yyyy-mm-jj): 2016-06-27  
Date end (yyyy-mm-jj): 2016-07-15

## Project(s)

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DACCIWA > WP1 - Boundary Layer Dynamics

## Data description

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### Abstract

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This dataset corresponds to all profiles of mean meteorological variables carried out by the small Remotely Piloted Airplane System called "OVLI" at Savé site.

Warning: this was an experimental device.

Maximum height reached was 1000 m. Profiles were generally flown below 600 m.

Wind supplied in this dataset was deduced from the autopilot computations, with moderate incertitude. To be taken cautiously.

Temperature and humidity were measured with a SHT75 Campbell sensor.

### Observing strategy

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Profiles were flown during daytime, most of the time in spirals of about 100 m radius.

Data from ascents and descents are supplied in separated files.

## Geographic information

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### Savé Supersite, near Gobé, INRAB institute, Benin

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Location name:	Savé Supersite, near Gobé, INRAB institute, Benin
Platform type:	GROUND-BASED OBSERVATIONS
West bounding coordinate (°):	2.4267
East bounding coordinate (°):	2.4367
North bounding coordinate (°):	8.0071
South bounding coordinate (°):	8

## Measured parameters

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### Relative humidity

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Parameter name:	Relative humidity
Parameter keyword:	Atmosphere > Atmospheric Water Vapor
Unit:	percent - %
Acquisition methodology and quality:	From Campbell SHT75 sensor.
Sensor precision:	3

### Air Temperature

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Parameter keyword:	Atmosphere > Atmospheric Temperature > Surface Temperature > Air Temperature
Unit:	Degrees Celsius - °C
Acquisition methodology and quality:	From Campbell SHT75 sensor.
Sensor precision:	0.3

### Static Pressure

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Parameter keyword:	Atmosphere > Atmospheric Pressure > Static Pressure
Unit:	hecto Pascal - hPa
Sensor precision:	0.1

## Derived parameters

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### Potential Temperature

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Parameter keyword:	Atmosphere > Atmospheric Temperature > Surface Temperature > Potential Temperature
Unit:	Kelvin - K

## Wind Speed

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Parameter keyword: Atmosphere > Atmospheric Winds > Wind Speed  
Unit: meter per second - m/s  
Sensor precision: 0.5

## Wind Direction

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Parameter keyword: Atmosphere > Atmospheric Winds > Wind Direction  
Unit: degrees - degrees  
Sensor precision: 5

## Data use information

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Use constraints: The research leading to these results has received funding from the European Union Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 603502.

Data policy: DACCIWA data policy

Database: Dacciwa database

Original data format(s): NetCDF