

# Twin Otter AMS

## General information

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Dataset name: Twin Otter AMS  
Created on: 2017-05-31

### Contact(s)

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### Period

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Date begin (yyyy-mm-jj): 2016-07-01  
Date end (yyyy-mm-jj): 2016-07-15

### Project(s)

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DACCIWA > WP4 - Cloud-Aerosol Interactions

## Data description

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### Abstract

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Aerosol Mass Spectrometer (AMS) data from the BAS Twin Otter during the DACCIWA campaign. Time series of mass concentrations for Org, NO<sub>3</sub>, SO<sub>4</sub>, NH<sub>4</sub>, Chl.

### Observing strategy

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Measurement of in situ aerosol properties in southern West Africa

## Instrument information

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### Sensor

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Instrument type: AEROSOL MONITOR  
Manufacturer: Aerodyne  
Model: C-ToF-AMS

### Sensor resolution

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Observation frequency: 8 s - 45 s

## Geographic information

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### BAS Twin Otter

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Location name:	BAS Twin Otter
Platform type:	Twin Otter aircraft
West bounding coordinate (°):	-0.6
East bounding coordinate (°):	2.67
North bounding coordinate (°):	8.04
South bounding coordinate (°):	5.41
Altitude min:	23
Altitude max:	3288

## Measured parameters

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### Organic Particles

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Parameter keyword:	Atmosphere > Aerosols > Organic Particles
Unit:	microgramm per cubic meter - $\mu\text{g.m}^{-3}$
Date begin (yyyy-mm-jj):	2016-07-01
Date end (yyyy-mm-jj):	2016-07-15

### Nitrate Particles

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Parameter keyword:	Atmosphere > Aerosols > Nitrate Particles
Unit:	microgramm per cubic meter - $\mu\text{g.m}^{-3}$
Date begin (yyyy-mm-jj):	2016-07-01
Date end (yyyy-mm-jj):	2016-07-15

### Sulfate Particles

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Parameter keyword:	Atmosphere > Aerosols > Sulfate Particles
Unit:	microgramm per cubic meter - $\mu\text{g.m}^{-3}$
Date begin (yyyy-mm-jj):	2016-07-01
Date end (yyyy-mm-jj):	2016-07-15

### Ammonium

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Parameter name:	Ammonium
Parameter keyword:	Atmosphere > Aerosols
Unit:	microgramm per liter - $\mu\text{g.l}^{-1}$
Date begin (yyyy-mm-jj):	2016-07-01
Date end (yyyy-mm-jj):	2016-07-15

## Chl aerosols

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Parameter name:	Chl aerosols
Parameter keyword:	Atmosphere > Aerosols
Unit:	microgramm per cubic meter - $\mu\text{g.m}^{-3}$
Date begin (yyyy-mm-jj):	2016-07-01
Date end (yyyy-mm-jj):	2016-07-15

## 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 No. 603502
Data policy:	DACCIWA data policy
Database:	Dacciwa database
Original data format(s):	csv file (comma separated values)