

# AEROCLO-sA PEGASUS aerosol mass concentration

## General information

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Dataset name: AEROCLO-sA PEGASUS aerosol mass concentration  
Created on: 2020-04-03

### Contact(s)

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### Period

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Date begin (yyyy-mm-jj): 2017-08-20  
Date end (yyyy-mm-jj): 2017-09-13

### Project(s)

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AEROCLO

## Data description

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### Abstract

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Aerosol particle mass concentration measured at the surface level by the PEGASUS mobile platform located at the SANUMARC research center in Henties Bay, Namibia.

### Observing strategy

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The aerosol particle mass concentration was measured by a Tapered Element Oscillating Microbalance (TEOM) with Filter Dynamic Measurement System (FDMS) by Thermo Inc. (model 1504f) operated in the PEGASUS mobile platform. Air was taken into the instrument from one of the two custom-built high volume wind-orientable inlet of the mobile platform. Data were acquired continuously at 6 minute time resolution.

### References

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Formenti, P., B. D'Anna, C. Flamant, M. Mallet, S.J. Piketh, K. Schepanski, F. Waquet, F. Auriol, G. Brogniez, F. Burnet, J. Chaboureaud, A. Chauvigné, P. Chazette, C. Denjean, K. Desboeufs, J. Doussin, N. Elguindi, S. Feuerstein, M. Gaetani, C. Giorio, D. Klopper, M.D. Mallet, P. Nabat, A. Monod, F. Solmon, A. Namwoonde, C. Chikwililwa, R. Mushi, E.J. Welton, and B. Holben, 2019: The Aerosols, Radiation and Clouds in Southern Africa Field Campaign in Namibia: Overview, Illustrative Observations, and Way Forward. *Bull. Amer. Meteor. Soc.*, 100, 1277-1298, <https://doi.org/10.1175/BAMS-D-17-0278.1>

## Instrument information

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### Sensor

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Instrument type:	AEROSOL MONITOR
Manufacturer:	Thermo
Model:	1405f

### Sensor resolution

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Observation frequency:	6 minutes
Horizontal coverage:	Point measurement
Vertical coverage:	Surface

### Sensor location

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Longitude (°):	-22.1
Latitude (°):	14.5
Height above ground (m):	2

## Geographic information

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### Henties Bay

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Location name:	Henties Bay
Platform type:	GROUND-BASED OBSERVATIONS

## Measured parameter

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### Particulate Matter

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Parameter keyword:	Atmosphere > Aerosols > Particulate Matter
Unit:	microgramm per cubic meter - µg.m-3
Acquisition methodology and quality:	Measured data have been corrected for particle losses through the pipelines

## Derived parameter

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### Particulate Matter

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Parameter keyword:	Atmosphere > Aerosols > Particulate Matter
Unit:	microgramm per cubic meter - µg.m-3

## Data use information

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Use constraints:	The Principal Investigator(s) of the mass concentration data for the AEROCLO-sA campaign is Paola Formenti. If you intend to use the following data please consult with him via e-mail: <a href="mailto:paola.formenti@lisa.ipsl.fr">paola.formenti@lisa.ipsl.fr</a> . Please consider authorship for the PI whenever using the data. They were acquired with the support of Anaïs Feron (LISA) and of the Technical Department of the LISA ( <a href="http://www.lisa.ipsl.fr">www.lisa.ipsl.fr</a> , a joint research unit of the CNRS, University Paris-Est Créteil and University of Paris).
Data policy:	AEROCLO data policy
Database:	AEROCLO-sA on BAOBAB
Original data format(s):	ascii text