

# AEROCLO-sA PEGASUS SO2 mixing ratio

## General information

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Dataset name: AEROCLO-sA PEGASUS SO2 mixing ratio  
Dataset DOI: 10.6096/AEROCLO.1804  
Created on: 2020-01-24

### 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 sulphur dioxide mixing ratio 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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Air was taken into the instrument from a teflon 1/4" tube inlet of the PEGASUS mobile platform.

### 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. Kopper, 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:	GAS SENSORS
Manufacturer:	HORIBA
Model:	APSA 370

### Sensor resolution

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Observation frequency:	2 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 STATIONS

## Measured parameter

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### Trace Gases/Trace Species

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Parameter keyword:	Atmosphere > Atmospheric Chemistry > Trace Gases/Trace Species
Unit:	ppbv - ppbv
Acquisition methodology and quality:	2-min time resolution, detection limit 1 ppb

## Data use information

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Use constraints:	The Principal Investigator(s) of the sulphur dioxide data for the AEROCLO-sA campaign is Jean-François Doussin. If you intend to use the following data please contact him by e-mail: Jean-Francois.Doussin@lisa.ipsl.fr. Please consider authorship for the PI whenever using these data. Data were acquired with the support of Anaïs Feron (LISA) and of the Technical Department of the LISA. The LISA ( <a href="http://www.lisa.u-pec.fr">www.lisa.u-pec.fr</a> ) is a joint research unit of the CNRS, University Paris-Est Créteil and University of Paris).
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Data policy:	AEROCLO data policy
Database:	AEROCLO-sA on BAOBAB
Original data format(s):	ascii text