

AEROCLO-sA PEGASUS NOx mixing ratio

General information

Dataset name: AEROCLO-sA PEGASUS NOx mixing ratio
Dataset DOI: 10.6096/BAOBAB-AEROCLO.1805
Created on: 2020-01-24

Contact(s)

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Period

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

Project(s)

AEROCLO

Data description

Abstract

Nitrogen oxide mixing ratios were measured at the surface level by the PEGASUS mobile platform located at the SANUMARC research center in Henties Bay, Namibia.

Observing strategy

Air was taken into the instrument from a teflon 1/4' tube inlet of the PEGASUS mobile platform. Data were acquired continuously at 2-minute time resolution.

References

Formenti, P., B. D'Anna, C. Flamant, M. Mallet, S.J. Piketh, K. Schepanski, F. Waquet, F. Auriol, G. Brogniez, F. Burnet, J. Chaboureau, 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

Sensor

Instrument type:	GAS SENSORS
Manufacturer:	HORIBA
Model:	APNA 370

Sensor resolution

Observation frequency:	2 minutes
Horizontal coverage:	Point measurement
Vertical coverage:	Surface

Sensor location

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

Geographic information

Henties Bay

Location name:	Henties Bay
Platform type:	MOBILE STATIONS/VEHICLES

Measured parameter

Trace Gases/Trace Species

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

Use constraints:	The Principal Investigator(s) of the nitrogen oxide data for the AEROCLO-sA campaign is Jean-François Doussin. If you intend to use the following data please consult with him via e-mail: Jean-Francois.Doussin@lisa.ipsl.fr. Please consider authorship for the PI whenever using the data. Data were acquired with the support of Anaïs Feron (LISA) and of the Technical Department of the LISA. The LISA (www.lisa.u-pec.fr) 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