

AEROCLO-sA PEGASUS aerosol scattering coefficient

General information

Dataset name: AEROCLO-sA PEGASUS aerosol scattering coefficient
Created on: 2018-06-17

Contact(s)

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Period

Date begin (yyyy-mm-jj): 2017-08-21
Date end (yyyy-mm-jj): 2017-09-12

Project(s)

AEROCLO

Data description

Abstract

Aerosol particle scattering coefficient at three wavelengths (450, 550, 700 nm) measured at the surface level at Henties Bay.

Observing strategy

The aerosol particle scattering coefficient at three wavelengths (450, 550, 700 nm) was measured by a TSI nephelometer (model 3596, TSI Inc.) operated in the PEGASUS mobile lab. Air was taken into the instrument from one of the two custom-built high volume wind-orientable inlets of the mobile station. Data were acquired contiguously at 3 minute time resolution.

References

L. Anderson, Theodore & A. Ogren, John. (1998). Determining Aerosol Radiative Properties Using the TSI 3563 Integrating Nephelometer. *Aerosol Science and Technology - AEROSOL SCI TECH.* 29. 57-69. 10.1080/02786829808965551.

Instrument information

Sensor

Instrument type:	Chemical Meters/Analyzers
Manufacturer:	TSI Incorporated
Model:	3596

Sensor resolution

Observation frequency:	3 minutes
Horizontal coverage:	point measurements
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:	GROUND STATIONS

Measured parameter

Aerosol scattering coefficient

Parameter name:	Aerosol scattering coefficient
Parameter keyword:	Atmosphere > Aerosols > Aerosol Particle Properties
Unit:	megameter-1
Date begin (yyyy-mm-jj):	2017-08-21
Date end (yyyy-mm-jj):	2017-09-12

Derived parameter

Aerosols

Parameter keyword:	Atmosphere > Aerosols
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Data use information

Use constraints:	The Principal Investigator(s) of the AEROCLO-sA campaign is Paola Formenti. If you intend to use the following data please contact her by e-mail: paola.formenti@lisa.ipsl.fr . 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).
Data policy:	AEROCLO data policy
Database:	AEROCLO-sA on BAOBAB
Original data format(s):	ascii text