aeronetRasElAin sun photometer

General information

Dataset name: aeronetRasElAin sun photometer

Created on: 2009-12-15

Contact(s)

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Period

Date begin (yyyy-mm-jj):   2006-03-05

Date end (yyyy-mm-jj):   2007-07-31

Project(s)

OBSERVATORIES > PHOTON AERONET

Data description

Abstract

Sun photometer measurements of the direct (collimated) solar radiation provide information to calculate the columnar aerosol optical depth (AOD). AOD can be used to compute columnar water vapor (Precipitable Water) and estimate the aerosol size using the Angstrom parameter relationship. Two data versions (Versions 1 and 2) and three quality levels (Levels 1.0, 1.5, 2.0) exist for each product. While Levels 1.0 and 1.5 are provided in near real-time, the 12-month or longer delay (due to final calibration and manual inspection) ensures that the highest quality data can be found in Version 2, Level 2.0 data products. Version 2 AOD processing now includes fine and coarse mode AOD as well as fine mode fraction.

Observing strategy

Sun photometer measurements of the direct (collimated) solar radiation provide information to calculate the columnar aerosol optical depth (AOD). AOD can be used to compute columnar water vapor (Precipitable Water) and estimate the aerosol size using the Angstrom parameter relationship. Two data versions (Versions 1 and 2) and three quality levels (Levels 1.0, 1.5, 2.0) exist for each product. While Levels 1.0 and 1.5 are provided in near real-time, the 12-month or longer delay (due to final calibration and manual inspection) ensures that the highest quality data can be found in Version 2, Level 2.0 data products. Version 2 AOD processing now includes fine and coarse mode AOD as well as fine mode fraction.

Instrument information

Sensor

Instrument type:	Photometers
Manufacturer:	Cimel Electronique
	172, rue de Charonne 75011
	Paris, FRANCE
Model:	Sun Photometer

Geographic information

Ras El Ain

Location name:	Ras El Ain
Plateform type:	GROUND STATIONS
West bounding coordinate (°):	-7.5989
East bounding coordinate (°):	-7.5989
North bounding coordinate (°):	31.67
South bounding coordinate (°):	31.67

Measured parameter

Aerosol Optical Thickness

Parameter name:	Aerosol Optical Thickness
Parameter keyword:	Atmosphere > Aerosols
Unit:	Number - Number
Date begin (yyyy-mm-jj):	2006-03-05
Date end (yyyy-mm-jj):	2007-07-31

Data use information

Use constraints:
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Database: AMMA database

Original data format(s): ascii text