

aeronetIMSMETUERDEMLI sun photometer

General information

Dataset name: aeronetIMSMETUERDEMLI sun photometer
Created on: 2006-12-05

Contact(s)

Holben Brent - AERONET - brent@aeronet.gsfc.nasa.gov (PI or Lead scientist)

Period

Date begin (yyyy-mm-jj): 1999-11-12
Date end (yyyy-mm-jj): 2006-03-06

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

IMS METU ERDEMLI

Location name:	IMS METU ERDEMLI
Platform type:	GROUND STATIONS
West bounding coordinate (°):	34.255
East bounding coordinate (°):	34.255
North bounding coordinate (°):	36.565
South bounding coordinate (°):	36.565
Altitude min:	3
Altitude max:	3

Measured parameter

Aerosol Optical Thickness

Parameter name:	Aerosol Optical Thickness
Parameter keyword:	Atmosphere > Aerosols
Unit:	no unit
Date begin (yyyy-mm-jj):	1999-11-12
Date end (yyyy-mm-jj):	2006-03-06

Data use information

Use constraints:	The public domain data you are about to download are contributed by the International AERONET Federation. Each site has a Principal Investigator(s) (PI) , responsible for deployment, maintenance and data collection. The PI has priority use of the data collected at the site. The PI is entitled to be informed of any other use of that site data. Recommended guidelines for data use and publication: Although journal paper authorship and acknowledgement is the domain of the senior author and no policy is universally applicable, the
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Database:

AMMA database

Original data format(s):

ascii text