

Name of research institute or organization:

**Physikalisch-Meteorologisches Observatorium Davos,
World Radiation Center**

Title of project:

Remote sensing of aerosol optical depth

Project leader and team:

Christoph Wehrli, project leader
Stephan Nyeki

Project description:

Aerosol optical depth (AOD) is derived from solar spectral irradiance measurements at Jungfraujoch since 1998. These measurements are made in the context of the Global Atmosphere Watch (GAW) program of the WMO by PMOD/WORCC in collaboration with MeteoSwiss. Quality controlled results are fed into the World Data Center Aerosols (WDCA) for public access.

AOD measurements were taken continuously in 2008 and now cover a period of 10 years. Quality assured results are available as hourly means from January 1999 to August 2006 at WDCA. Daily preliminary results from Jungfraujoch and 7 more GAW stations are now made available in graphical form on the WORCC website.

Key words:

Solar radiation, Aerosol optical depth monitoring, calibration

Internet data bases:

<http://www.pmodwrc.ch/worcc>
<http://wdca.jrc.it/>

Collaborating partners/networks:

MeteoSwiss (MCH)
Global Atmosphere Watch (GAW), AOD network

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