

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

Project description:

Aerosol optical depths (AOD) are 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.

No AOD measurements were taken in the first 10 months of 2007 as the automated dome of MCH remained closed since August 2006 after a major remodeling of the SwissMetNet infrastructure. Since October 2007 the dome is operational again. The former data link by an analog modem to the PMOD/WRC instrument was successfully replaced by a direct internet connection. The Jungfraujoch station thus served as a test site for upgrading further sites towards near real time access in the global network of PFR instruments.

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

Address:

PMOD/WRC
Dorfstrasse 33
CH-7260 Davos Dorf

Contacts:

Christoph Wehrli
Tel.: +41 81 417 5137
Fax: +41 81 417 5100
e-mail: christoph.wehrli@pmodwrc.ch
URL: <http://www.pmodwrc.ch>

