

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 the World Optical depth Research and Calibration Center (WORCC) in collaboration with MeteoSwiss. Quality controlled results are fed into the World Data Center Aerosols (WDCA) for public access.

In addition to above monitoring activity, Jungfraujoch serves also as calibration site for master instrument within a global network of precision filter radiometers maintained by WORCC.

Key words:

Solar radiation, Aerosol optical depth monitoring, calibration

Internet data bases:

<http://www.pmodwrc.ch>,

<http://wdca.jrc.it/>

Collaborating partners/networks:

MeteoSwiss (MCH)

Global Atmosphere Watch AOD network

Scientific publications and public outreach 2005:

Conference paper

Wehrli, C., GAWPFR: A network of Aerosol Optical Depth observations with Precision Filter Radiometers. In: WMO/GAW Experts workshop on a global surface based network for long term observations of column aerosol optical properties, GAW Report No. 162, WMO TD No. 1287 (2005)

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