



Poland-AOD aerosol research network

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Poland-AOD research network (www.polandaod.pl) was formed in 2011. It is a consortium of Polish institutions that are involved in studies of the atmospheric aerosol impact on the climate system.

In 2016 the Poland-AOD network comprised of five stations: Radiative Transfer Laboratory, University of Warsaw (urban station), the research station of the Institute of Oceanology, in Sopot (coastal station), Radiative Transfer Station SolarAOT in Strzyzow (background station in the Carpathian mountains), Meteorology and Climatology Observatory at the Nicolaus Copernicus University in Torun (urban station), and the Research station in Rzecin at Poznan University of Life Sciences (rural station).

The primary goal of the network is to carry out measurements of aerosol single scattering properties, radiation budget, simulate radiative transfer and aerosol transport, validate aerosol transport and transformation models such as NAAPS and GEM-AQ, as well as carry out instrument calibration and intercomparison.

We will present observations of aerosol properties collected by the network as well as results from the GEM-AQ model simulations for selected episodes of biomass burning and urban aerosol.