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Electro-Optical Aerosol Phase Function Database PFNDAT2005

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Abstract: The Phase Function Database (PFNDAT) 2005 consists of a series of wavelength dependent phase functions, single scattering albedos, extinction coefficients, and asymmetry parameters of ten naturally occurring and four manmade aerosols along with brief descriptions of the scattering parameters, concentrations, and aerosol size distribution characteristics. The naturally occurring aerosols consist of maritime, urban, rural, tropospheric, fog, rain, snow, and dust aerosols; a wind-lofted desert aerosol; and the Navy aerosol model. The manmade aerosols consist of dust produced from high-explosive munition; **white phosphorus**; fog oil; and hexachloroethane smokes. Many of the models are functions of relative humidity, wind speed, and other parameters. The database includes information at wavelengths for 0.35 to 40.0 micrometers dependent on the availability of index of refraction data for each scattering species. This version of PFNDAT has added a tropospheric model, a wind speed dependent desert aerosol model, the Navy aerosol model, expanded the fog distributions (now including moderate advection and heavy radiation) and a completely revised snow phase function.

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