CLIMATOLOGY OF AEROSOL OPTICAL PROPERTIES IN SOUTHERN AFRICA

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Abstract

Long term measurements of aerosol optical depth, Angstrom exponent and derived single scattering albedo, size distribution, refractive index will be analyzed and compiled into an aerosol optical properties climatology in southern Africa. Measurements of aerosol parameters have been maid by AERONET program since the middle of the last decade. This valuable information provides a good opportunity for understanding how aerosols of different types influence the regional radiation budget. Two long term sites Mongu in Zambia and Skukuza in South Africa will form the core sources of information for this study. In addition several sites during SAFARI 2000 will also be used to identify aerosol properties for different environments in southern Africa.