



a tropospheric aerosol climatology for global modelling

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Aerosol component schemes in global modelling are time-consuming. To free up space for other computer intensive task (e.g. higher resolution, more detailed cloud treatment) simple aerosol parameterizations are desirable, especially if they capture the essential aerosol elements. For global models these are the (spectrally resolved) aerosol radiative properties, the cloud condensation (and ice) nuclei provided by aerosol and a capture of the aerosol anthropogenic change from the past into the future. In this presentation a monthly aerosol climatology is introduced that covers these items, by extending observational data (ground-based and space-borne remote sensing) with ‘matured’ characteristic data from global modelling. The concept of this climatology will be introduced, various applications will be presented.