

no preference (could be all posters)

aerosol direct radiative forcing: global distribution, uncertainties and anthropogenic development and trend

S.Kinne

With a new monthly aerosol climatology, which also considers anthropogenic change from pre-industrial times to the year 2100 direct aerosol forcing simulations are performed with an off-line radiative transfer code. Regional and temporal variations are discussed and sensitivity studies are applied to address uncertainty and impacts of simplified assumptions.

simple aerosol representation for global modeling

S.Kinne

The concept of developing a monthly climatology of aerosol radiative properties for simplified applications in global modeling is explained. It is based on combined data use of model results and statistics of sun-/sky-photometry network data

black carbon forcing

S.Kinne

Sun-/sky-photometer fine-mode absorption data of ground-based networks are applied to adjust BC-AOD maps from global modeling. These corrected BC-AOD maps are applied in an off-line radiative transfer code for more certain BC forcing estimates than the large range suggested by the current literature.