

an aerosol climatology

an optional replacement for complex aerosol modules in global modeling

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with support by modeling groups of AeroCom and sun-photometer network groups of AERONET & SKYnet

global monthly 1o(lon) x1o(lat) maps for fine mode properties (radius < 0.5 μm)

2D column properties (λ) : AOD, w_0 , g

3D altitude for AOD at 550nm

pre-industrial fraction (at 550nm)

anthropogenic frac. varying by year

1860-2100 (3 IPCC-5 future scenarios)

coarse mode prop. (radius > 0.5 μm)

2D column properties (λ) : AOD, w_0 , g

3D altitude for AOD at 550nm

cloud relevant properties

CCN concentration (kappa approach)

IN concentration (= coarse size dust)

