Himalayan Aerosol Measurements: Tibet, Central Nepal

Tibet: 4276m

Mt. Everest: 5050m

Langtang, Nepal 3670m
Indo-Gangetic Plain:
Aerosol loading (blue line) is extremely high
Increases rapidly from March to May
How absorbing are dust aerosols in The Indo-Gangetic Plain?

Micrographs of soot coating and aggregate on mineral dust from Asian dust (courtesy of J. Anderson)

T. Eck et al 2004
Ground-based and satellite aerosol (AOD) measurements
AOD values are related to the particle concentration, size and type of particle.
Sources of Aerosols
Kanpur, India 2002-2006
Daily Averages V2 Alm.

Day of Year

Single Scattering Albedo (440 nm)

SSA 440 nm

SSA Diff. (870-440 nm)

SSA Diff. (870-440 nm)