

Optical properties and the curvature effect in spectral scattering and absorption coefficients for key aerosol types identified in Athens

D.G. Kaskaoutis, G. Grivas, I. Stavroulas, A. Bougiatioti, E. Liakakou, E. Gerasopoulos, N. Mihalopoulos

* Classification of key aerosol types in Athens (Thissio station) based on in situ measurements (Nephelometer, Aethalometer).

* Classification matrix based on SAE vs. AAE

* Contrasting months (Dec. 2017: High wood burning),

(March 2018: dusty conditions); we examined the “curvature effect” in spectral scattering, absorption – and SSA – in logarithmic coordinates.

* Contrasting “curvatures” for scattering and absorption between aerosol types. “BC-dominated” exhibit mostly linear dependence on log-log plot

