
AAS001-22

Room: 201B

Time: May 28 16:15-16:30

Observation of light absorption of BC particles in Tokyo and its variation with the coating

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BlackCarbon(BC) is the generic name of aerosol which is optically black. BC is regarded as soot formed by incomplete combustion. Because of BC absorbs radiation strongly and heat the atmosphere, have a big influence to the climate. Therefore, it is important to quantify radiative properties of BC such as absorption, scattering and extinction. But to quantify radiative properties of BC is very difficult especially when BC with coating have amplification of absorption, which called lensing effect, causing big uncertainties.

Keywords: BlackCarbon, aerosol