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Dust Events During Spring 2006 Based on Aerosol Photometry and SPM Measurements

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Abstract

To monitor urban atmospheric particles, we have undertaken simultaneous measurements of aerosols and suspended particulate matter (SPM) at Kinki University Campus, Higashi-Osaka, Japan, since 2004. The largest dust event recorded during our long-term observations was detected during the spring of 2006.

We also examined the relationship between $PM_{2.5}$ concentrations and aerosol properties obtained from radiometry using a multi-spectral photometer located at a NASA/AERONET station. We found a linear correlation between aerosol optical thickness and $PM_{2.5}$ concentrations for both ordinary days and days with dust events.

Keywords: Yellow sand, Aerosol, SPM/ $PM_{2.5}$, photometry, AERONET


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