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Optical and microphysical properties of natural mineral dust and anthropogenic soil dust near dust source regions over northwestern China

Xin Wang et al.

Correspondence to: Xin Wang (wxin@lzu.edu.cn)

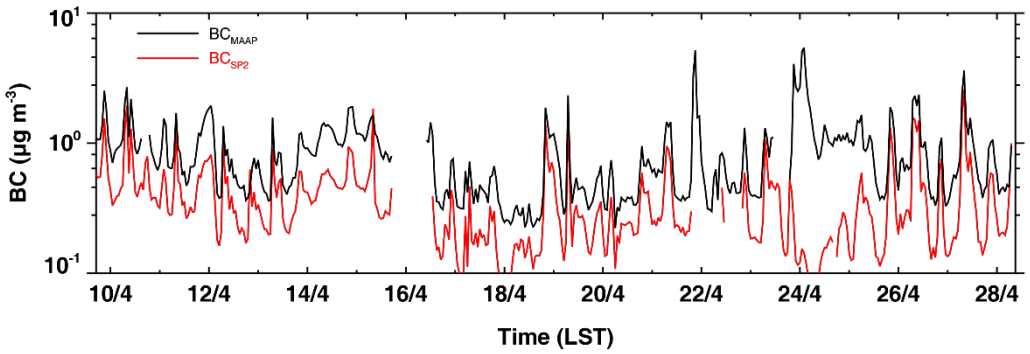

Figure S1. Temporal variations of BC mass concentration under the diameter of 1 μm and 2.5 μm measured by SP2 and MAAP in Zhangye from 9 to 28 April, respectively.

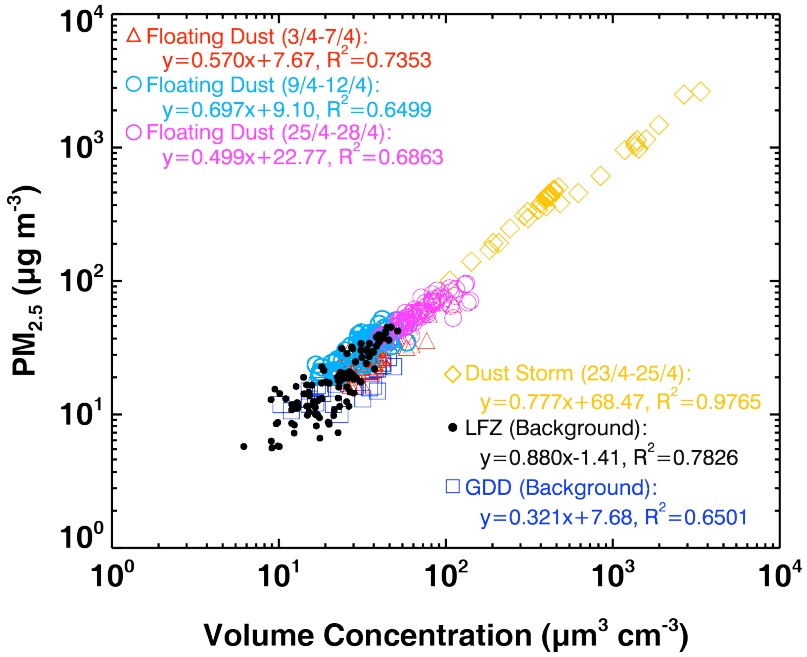

Figure S2. Scatter plot of mass concentration of $PM_{2.5}$ versus the integrated volume concentration under the diameter of 2.5 μm during the dust field campaign. The color symbols represent different atmospheric conditions during the dust field campaign.

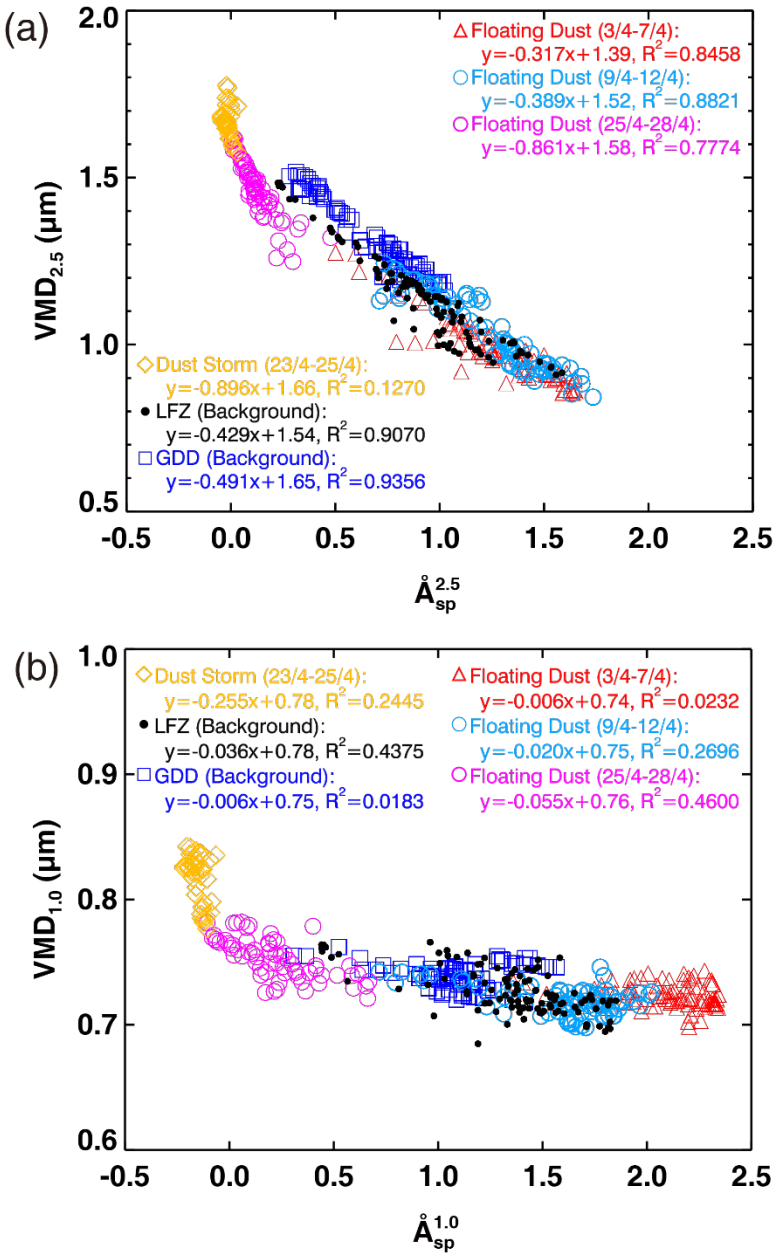

Figure S3. Scatter plot of the volume-weighted mean diameter (VMD) versus scattering Ångström exponent at 450–700 nm for **(a)** $PM_{2.5}$ and **(b)** $PM_{1.0}$. The color symbols represent different atmospheric conditions during the dust field campaign.