Supplement of

Estimating ground-level PM$_{2.5}$ in eastern China using aerosol optical depth determined from the GOCI satellite instrument

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Figure S1. Spatial distribution of GOCI-derived PM$_{2.5}$ composition for 2013. Abbreviations are Secondary Inorganic Aerosol (SIA; the sum of SO$_4^{2-}$, NO$_3^-$, and NH$_4^+$), Organic Mass (OM), and Black Carbon (BC). Gray denotes missing values.

Figure S1 shows the spatial distribution of GOCI-derived PM$_{2.5}$ composition for 2013. Enhancements of most components are apparent in the North China Plain. Secondary inorganic aerosol concentrations over vast regions in eastern China exceed 40 µg m$^{-3}$. Sulfate and nitrate contribute similarly to SIA. Northern China has enhanced OM concentrations. Mineral dust is more pronounced toward the west and closer to the Gobi desert.