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*Supplement of*

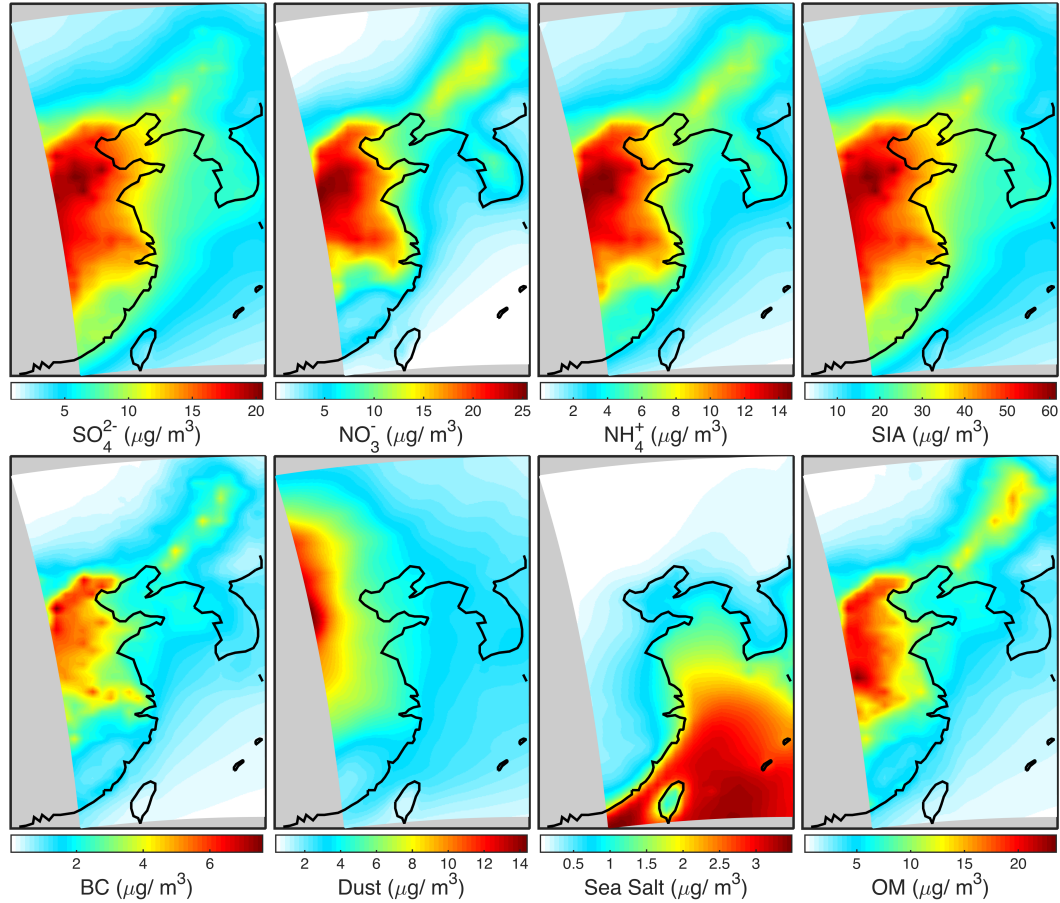
## **Estimating ground-level PM<sub>2.5</sub> in eastern China using aerosol optical depth determined from the GOCI satellite instrument**

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## Supplements



- 1 **Figure S1.** Spatial distribution of GOCI-derived PM<sub>2.5</sub> composition for 2013.
- 2 Abbreviations are Secondary Inorganic Aerosol (SIA; the sum of SO<sub>4</sub><sup>2-</sup>, NO<sub>3</sub><sup>-</sup>, and NH<sub>4</sub><sup>+</sup>),
- 3 Organic Mass (OM), and Black Carbon (BC). Gray denotes missing values.

- 4 Figure S1 shows the spatial distribution of GOCI-derived PM<sub>2.5</sub> composition for 2013.
- 5 Enhancements of most components are apparent in the North China Plain. Secondary
- 6 inorganic aerosol concentrations over vast regions in eastern China exceed 40 μg m<sup>-3</sup>.
- 7 Sulfate and nitrate contribute similarly to SIA. Northern China has enhanced OM
- 8 concentrations. Mineral dust is more pronounced toward the west and closer to the Gobi
- 9 desert.