



Supplement of

Exploring the severe winter haze in Beijing: the impact of synoptic weather, regional transport and heterogeneous reactions

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Table S1. Original CMAQ simulated domain-average concentration of pollutant to EC ratios during daytime (7:00~18:00) at different pollution levels

| Pollution Level | PM _{2.5} /EC | POM/EC | SO ₄ ²⁻ /EC | NO ₃ ⁻ /EC |
|--------------------------|-----------------------|--------|-----------------------------------|----------------------------------|
| <i>Clean</i> | 16.05 | 3.03 | 3.50 | 3.17 |
| <i>Slightly Polluted</i> | 14.69 | 3.09 | 2.83 | 3.00 |
| <i>Polluted</i> | 12.97 | 3.22 | 2.19 | 2.53 |
| <i>Heavily Polluted</i> | 11.72 | 3.27 | 1.69 | 2.26 |