

Supplementary Materials: Seasonal Variation of Nitrate Concentration and Its Direct Radiative Forcing over East Asia. *Atmosphere* 2016, 7, 10.3390/atmos7080105

Jiawei Li and Zhiwei Han

Table S1. Monthly anthropogenic NO_x emission used in the simulation (unit: Gg/month/grid). Emission data are extracted from the 0.25° × 0.25° inventory. Regional mean data are presented for East Asia (the whole domain), east China (20°N–42°N and 100°E–123°E), north China (35°N–42°N and 100°E–123°E), south China (20°N–35°N and 100°E–123°E), and north China Plain (36°N–42°N and 113°E–120°E).

| Month | East Asia | East China | North China | South China | North China Plain | Beijing | Tianjin | Shijiazhuang |
|-----------|-----------|------------|-------------|-------------|-------------------|---------|---------|--------------|
| January | 0.0168 | 0.26 | 0.32 | 0.24 | 0.60 | 11.45 | 11.01 | 14.65 |
| February | 0.0148 | 0.23 | 0.29 | 0.20 | 0.53 | 10.46 | 9.81 | 11.76 |
| March | 0.0168 | 0.26 | 0.33 | 0.23 | 0.60 | 8.76 | 8.64 | 14.60 |
| April | 0.0160 | 0.25 | 0.31 | 0.23 | 0.57 | 7.15 | 7.56 | 14.43 |
| May | 0.0162 | 0.26 | 0.32 | 0.23 | 0.59 | 7.47 | 7.11 | 14.76 |
| June | 0.0162 | 0.26 | 0.33 | 0.23 | 0.62 | 7.44 | 7.84 | 15.54 |
| July | 0.0164 | 0.26 | 0.33 | 0.23 | 0.63 | 7.70 | 8.16 | 16.15 |
| August | 0.0163 | 0.26 | 0.32 | 0.24 | 0.60 | 7.75 | 8.26 | 14.87 |
| September | 0.0159 | 0.26 | 0.31 | 0.23 | 0.57 | 7.59 | 8.01 | 13.20 |
| October | 0.0163 | 0.26 | 0.31 | 0.23 | 0.57 | 7.31 | 7.82 | 13.22 |
| November | 0.0169 | 0.28 | 0.34 | 0.25 | 0.63 | 10.90 | 11.05 | 15.04 |
| December | 0.0179 | 0.30 | 0.36 | 0.27 | 0.67 | 10.86 | 12.86 | 16.33 |

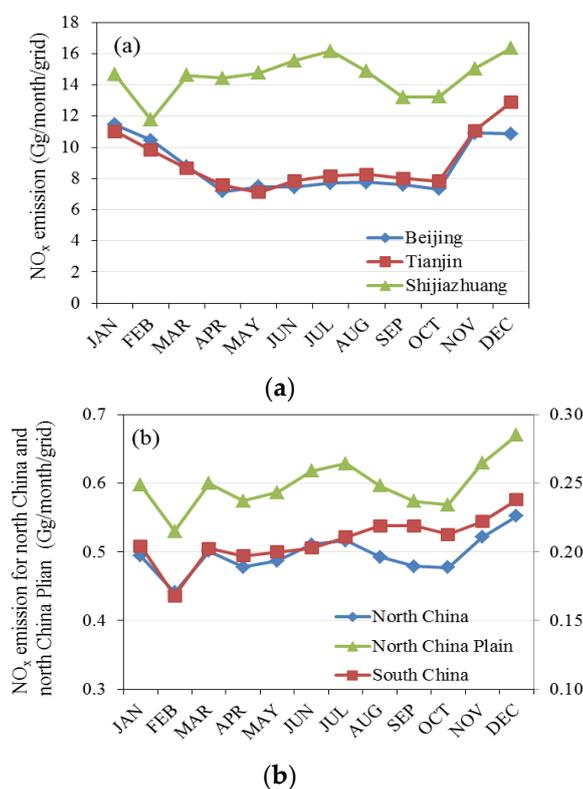


Figure S1. Cont.

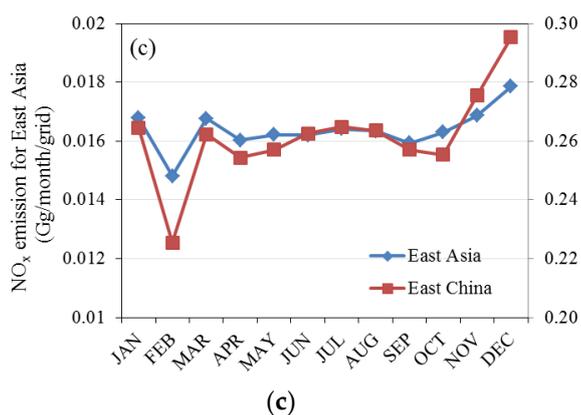


Figure S1. Monthly anthropogenic NO_x emission. (a) Beijing, Tianjin, and Shijiazhuang; (b) domain averages for north China (35°N–42°N and 100°E–123°E), south China (20°N–35°N and 100°E–123°E), and north China Plain (36°N–42°N and 113°E–120°E); (c) domain averages for East Asia (the whole domain) and east China (20°N–42°N and 100°E–123°E). Grid resolution is 0.25° × 0.25°.



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