

Supplement of Atmos. Chem. Phys., 16, 1673–1691, 2016  
<http://www.atmos-chem-phys.net/16/1673/2016/>  
doi:10.5194/acp-16-1673-2016-supplement  
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Atmospheric  
Chemistry  
and Physics  
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EGU

*Supplement of*

## **Modeling study of the 2010 regional haze event in the North China Plain**

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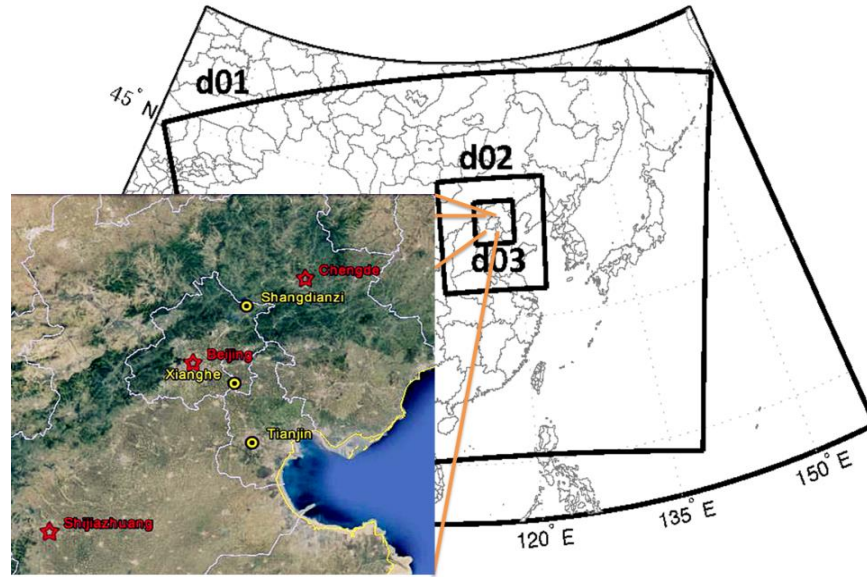


Figure S1. WRF-Chem modeling domain settings and locations of observations.

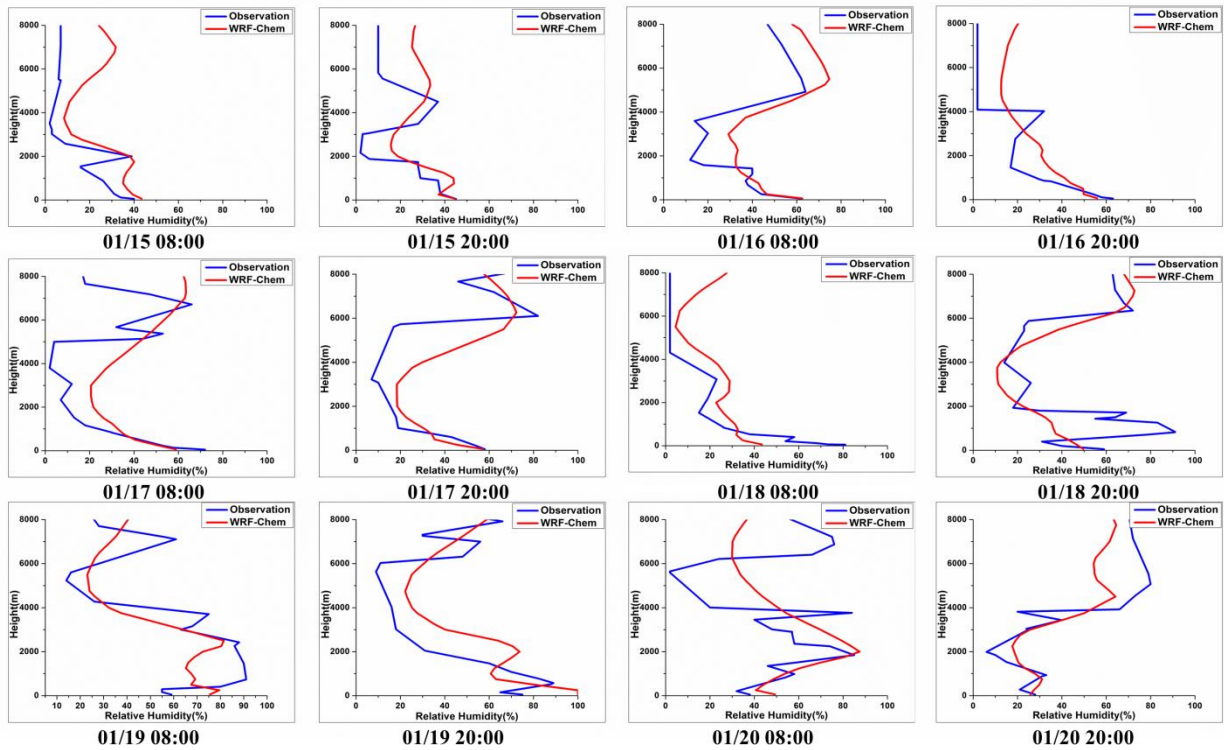


Figure S2. Simulated and observed vertical RH profiles at 0800 and 2000 (CST) from 15 January to 20 January.

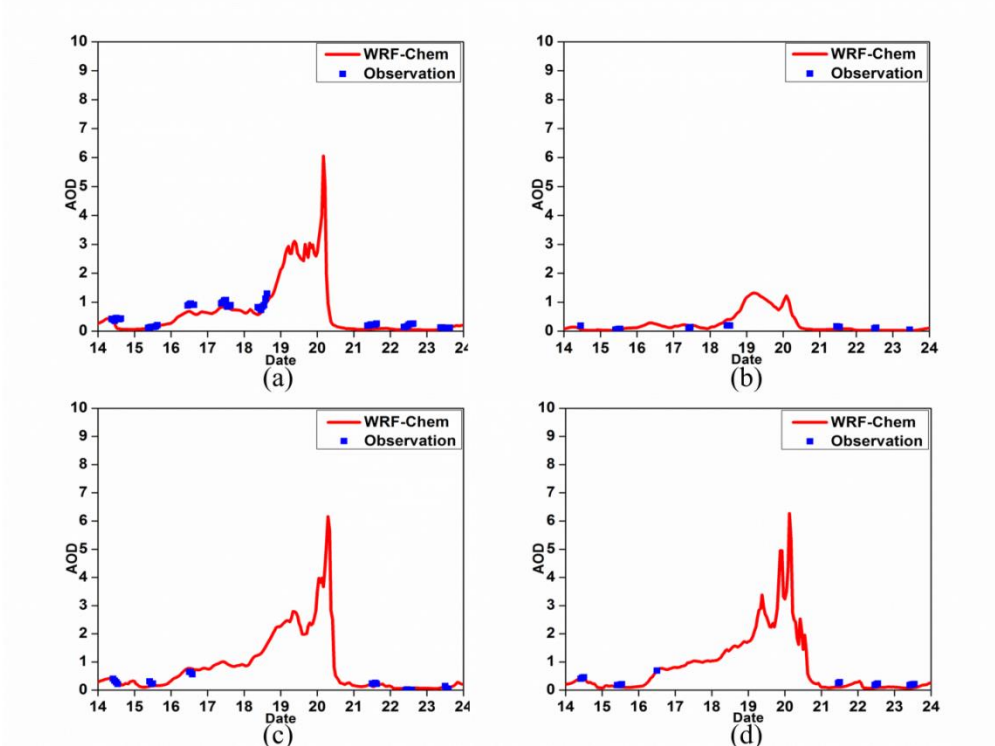


Figure S3. Simulated and measured AOD at 500nm at Beijing city (a), Beijing forest (b), Baoding city (c) and Cangzhou city.

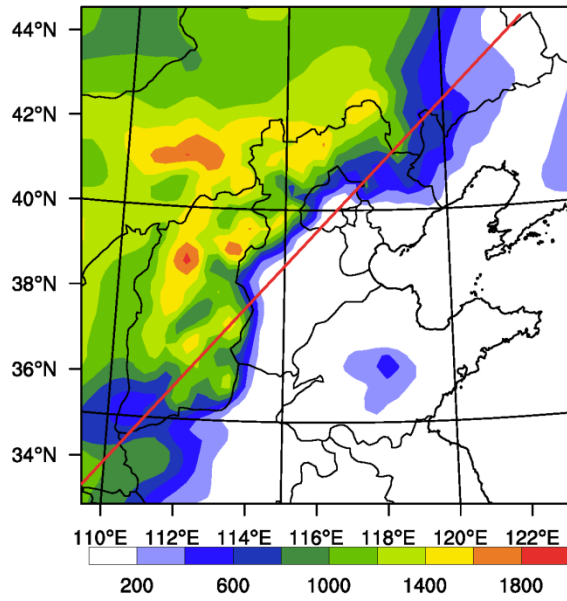


Figure S4. Terrain heights and direction of cross section plots.

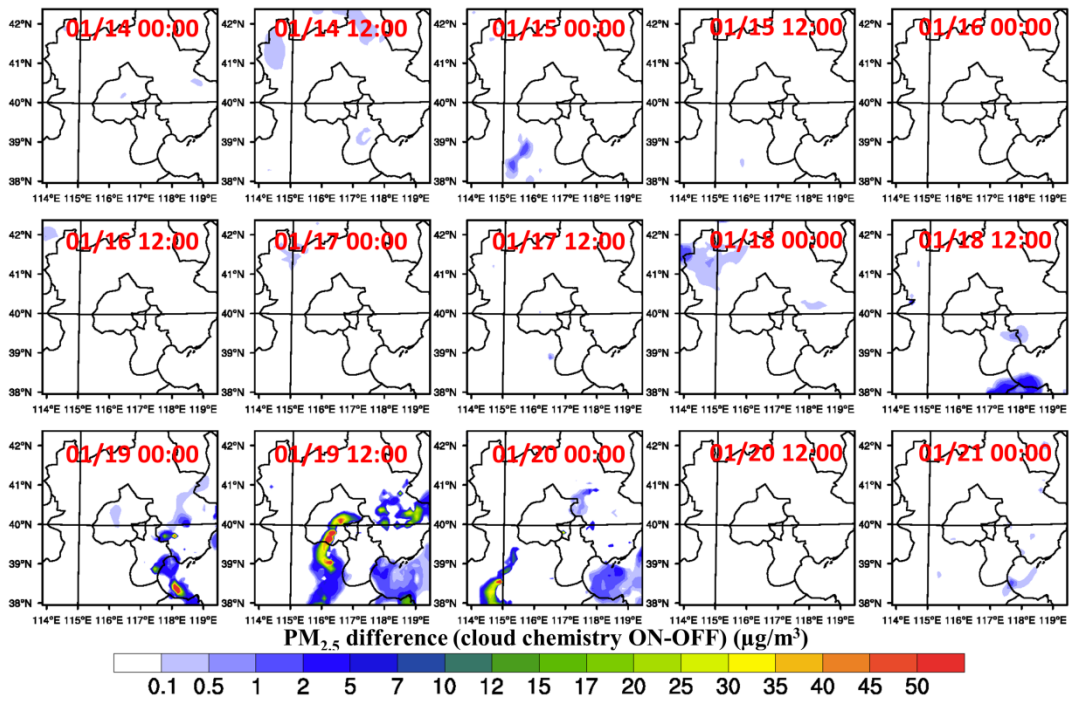


Figure S5. PM<sub>2.5</sub> concentration difference due to cloud chemistry from 14 January 0000 to 21 January 0000, plotted every 12 hours.

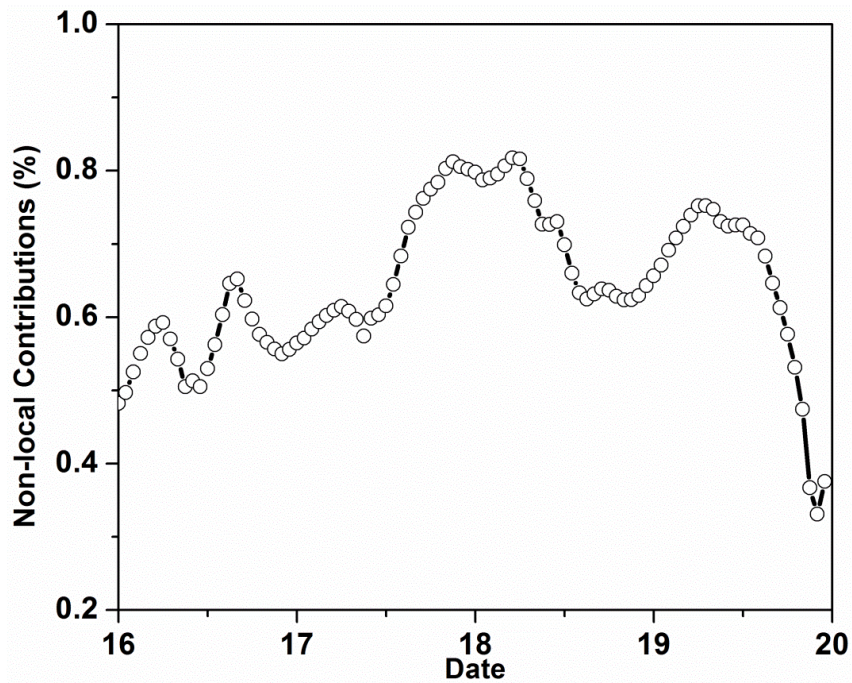


Figure S6. Non-local contributions to PM<sub>2.5</sub> in Beijing.