

Supplement of Atmos. Chem. Phys., 17, 5239–5251, 2017  
<http://www.atmos-chem-phys.net/17/5239/2017/>  
doi:10.5194/acp-17-5239-2017-supplement  
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Atmospheric  
Chemistry  
and Physics  
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*Supplement of*

## **Enhanced hydrophobicity and volatility of submicron aerosols under severe emission control conditions in Beijing**

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Table S1. Mean meteorological parameters during three periods

	Clean1	Clean2	Pollution
WS, 8m ( $\text{m s}^{-1}$ )	1.18	1.64	1.07
T ( $^{\circ}\text{C}$ )	26.00	18.93	22.57
RH (%)	57.32	52.77	62.14

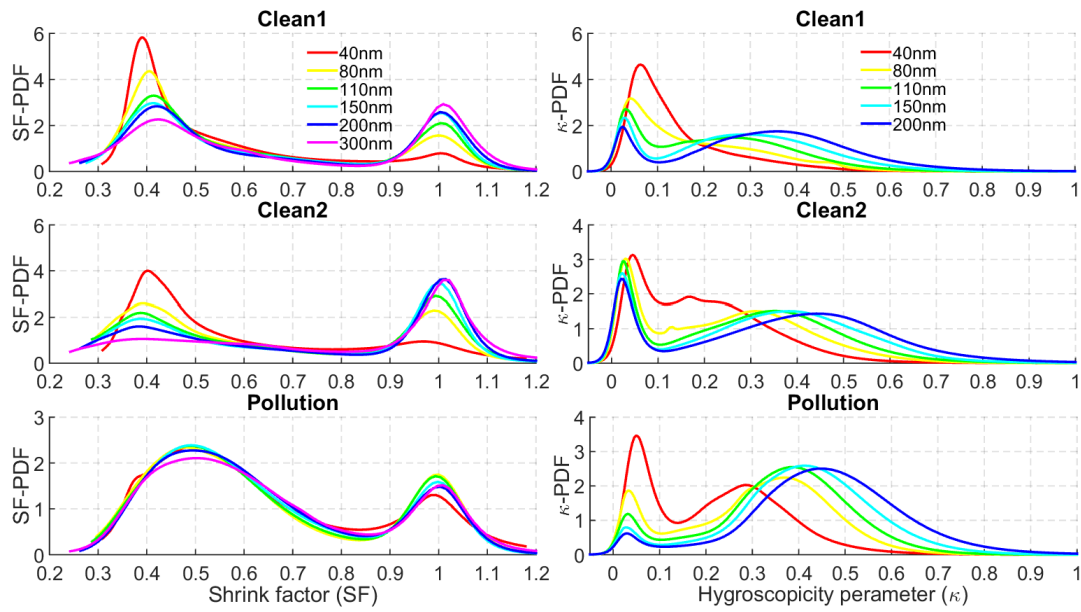


Figure S1. Mean SF-PDF (left) and  $\kappa$ -PDF (right) during three periods

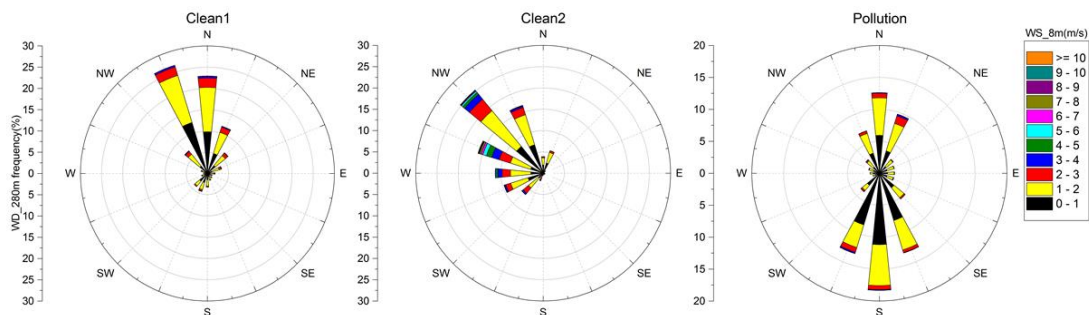


Figure S2. Wind rose diagram during three periods, color-coded by wind speed at 8 m for each period. The frequencies are set to the same scales but for wind direction at 280 m.

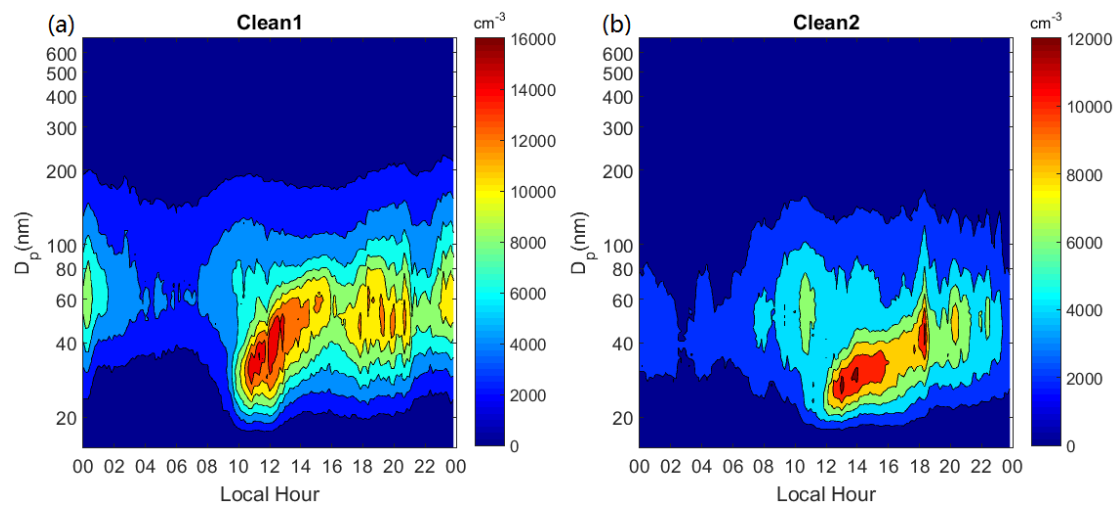


Figure S3. Diurnal variations in particle number size distribution at 260m on the tower during (a) Clean1 and (b) Clean2 periods, the colored values are the size-resolved number concentrations ( $dN/d\log D_p$ ).