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Supplement of

Estimating the influence of transport on aerosol size distributions during new particle formation events

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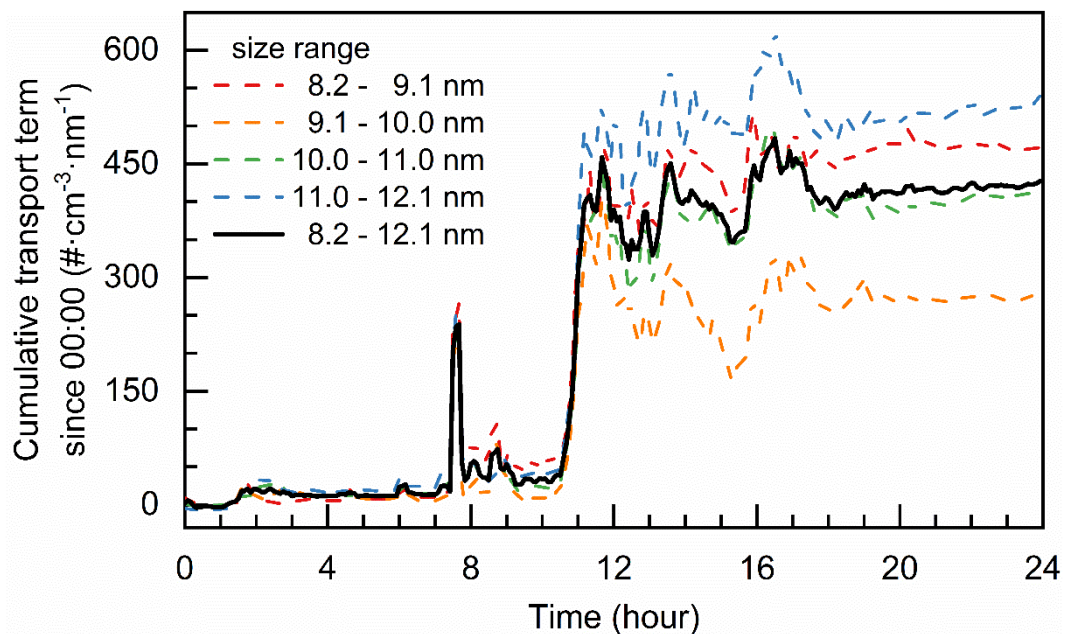


Figure S1: The time series of the cumulative growth terms estimated using different size ranges on Aug. 12th, 2016, at the Lulang river valley. The cumulative transport terms were averaged every 15 minutes.

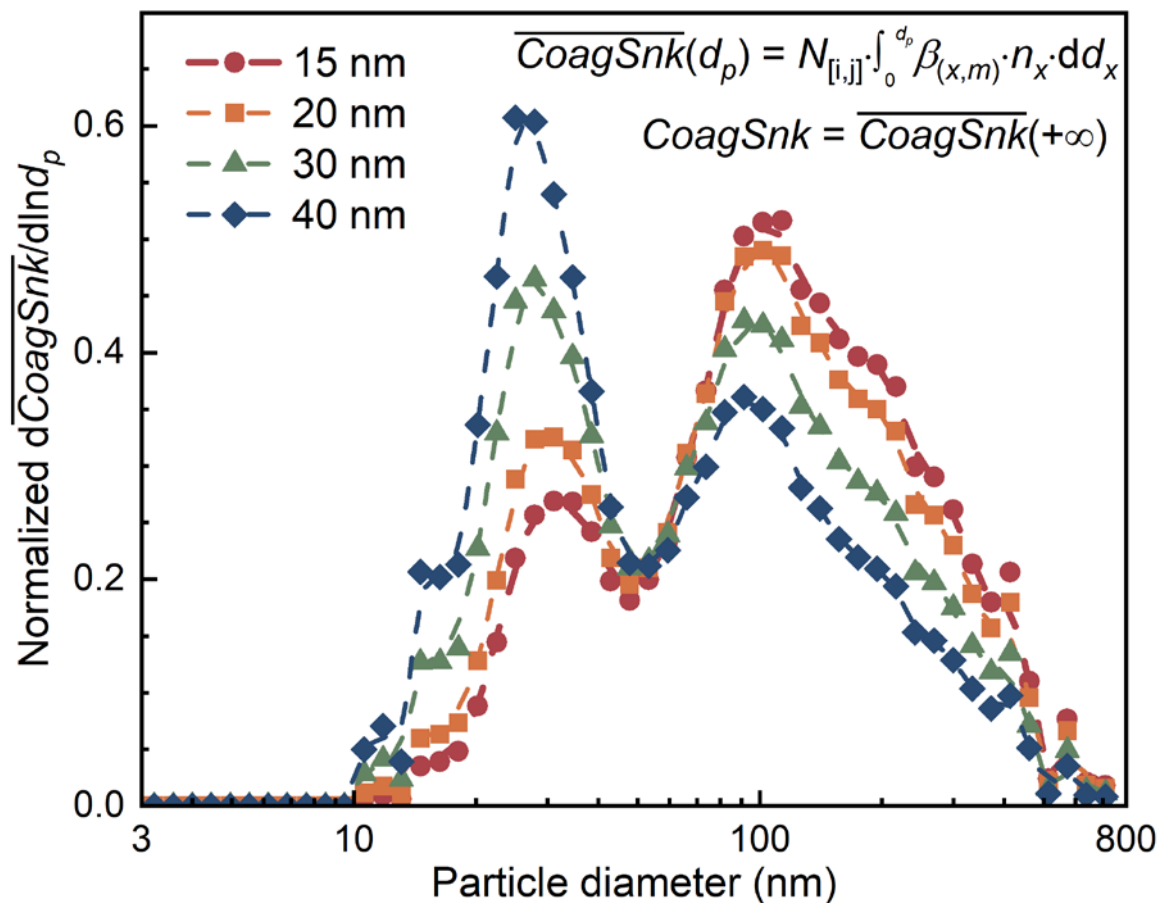


Figure S2: The distributions of the normalized cumulative *CoagSnrk* at various particle sizes as the function of the particle diameter (d_p) at 18:00 Mar. 16th, 2015, at the Fukue Island site. The vertical axis indicates the normalized contribution of each particle size bin to the *CoagSnrk* and the contribution is normalized by dividing the *CoagSnrk*. The subscripts *i* and *j* of $N_{[i,j]}$ indicates the concerned particle size range from d_i to d_j .

NOAA HYSPLIT MODEL
 Backward trajectories ending at 0900 UTC 16 Mar 15
 GDAS Meteorological Data

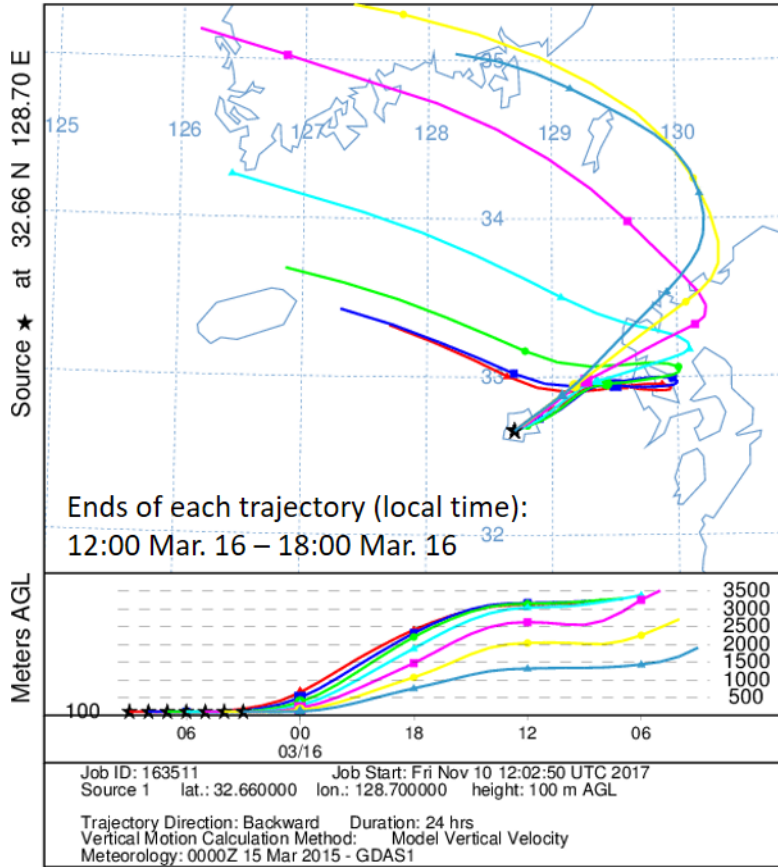


Figure S3: The backward trajectories of the air masses arriving at the Fukue Island on Mar. 16th, 2015.

NOAA HYSPLIT MODEL
 Backward trajectories ending at 0900 UTC 02 Mar 16
 GDAS Meteorological Data

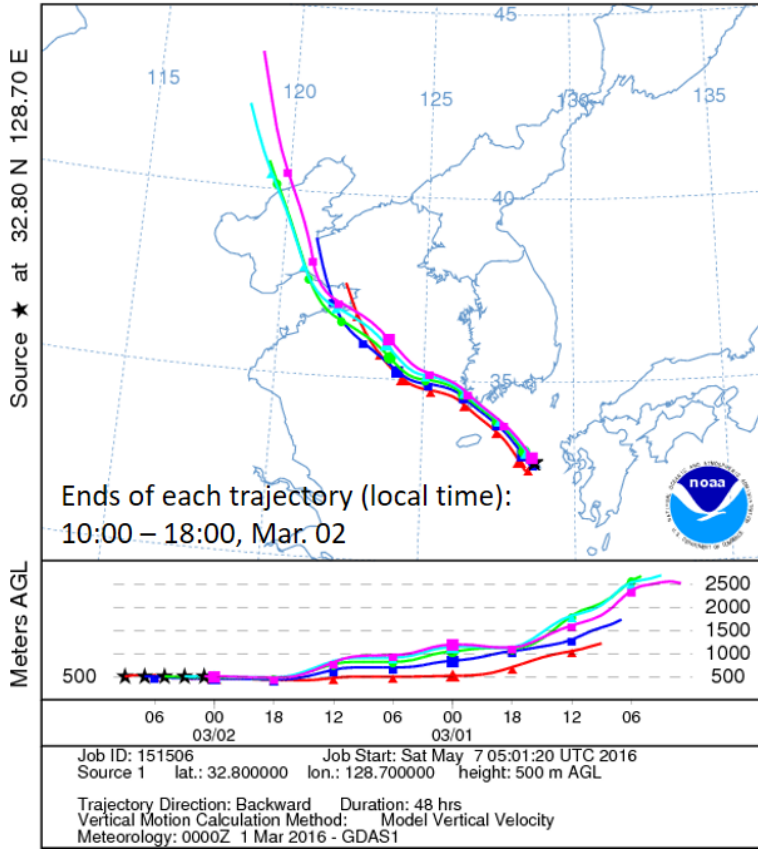


Figure S4: The backward trajectories of the air masses arriving at the Fukue Island on Mar. 2nd, 2016.

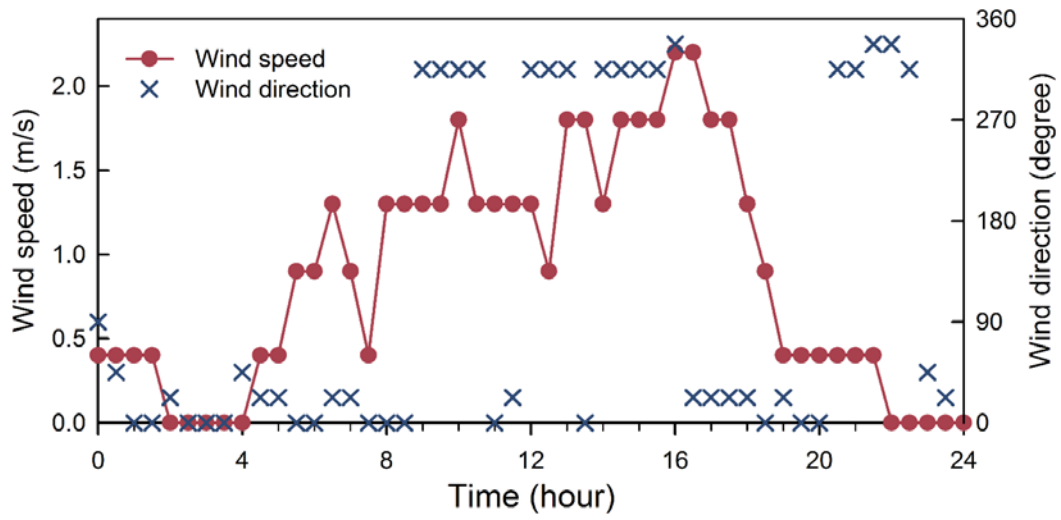


Figure S5: The wind speed and direction on Mar. 23rd, 2016, in urban Beijing.