

Figure S1: 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 $CoagS_{[i, j]}$ 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

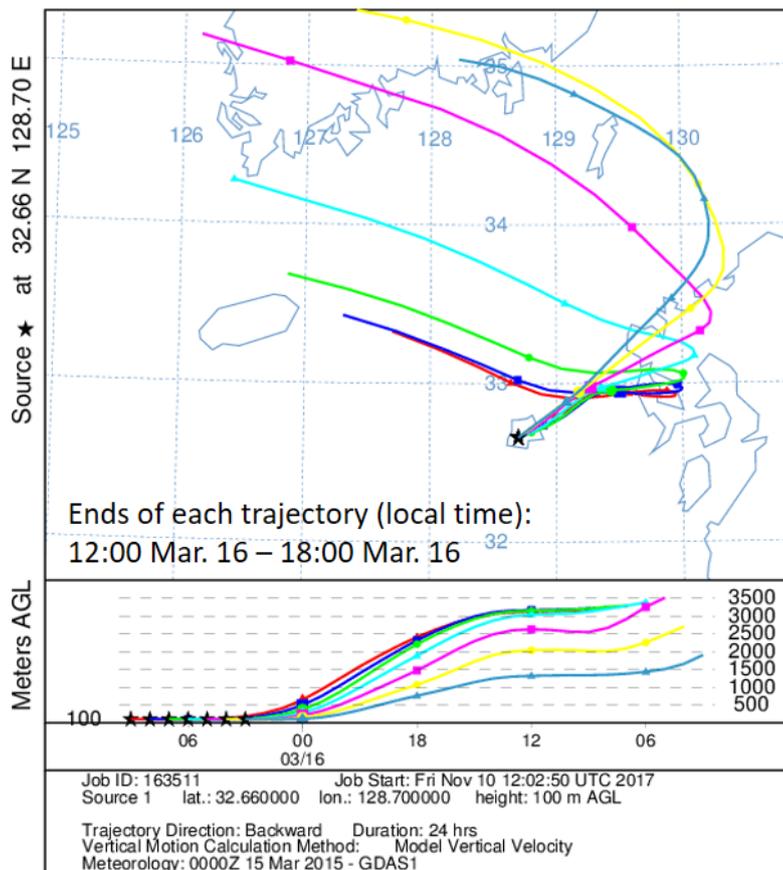


Figure S2: The backward trajectories of the air masses arriving at the Fukue Island on Mar. 16th, 2015.

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

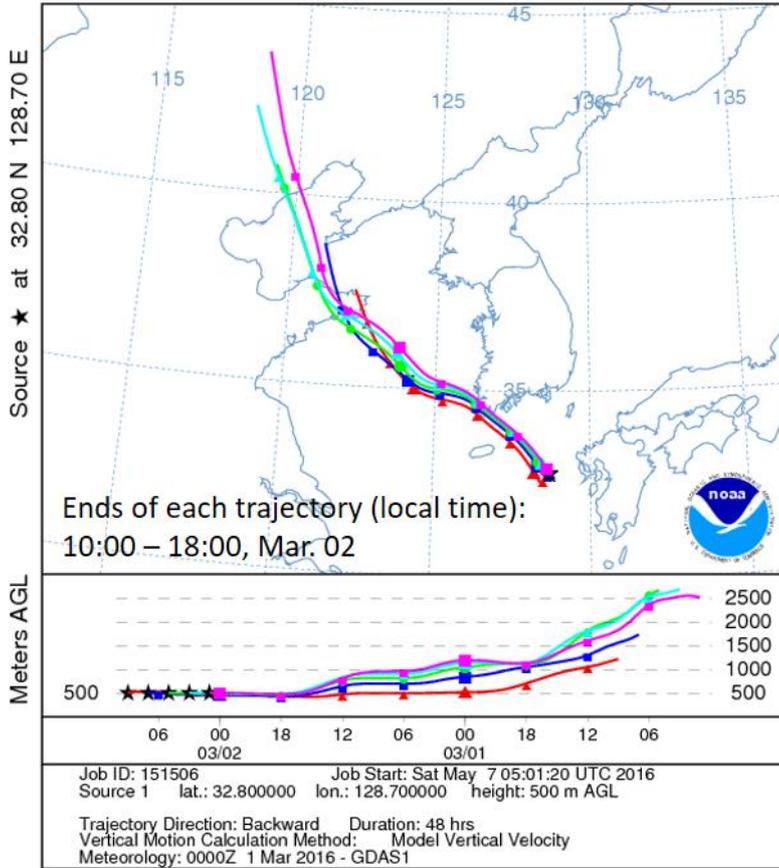


Figure S3: The backward trajectories of the air masses arriving at the Fukue Island on Mar. 2nd, 2016.

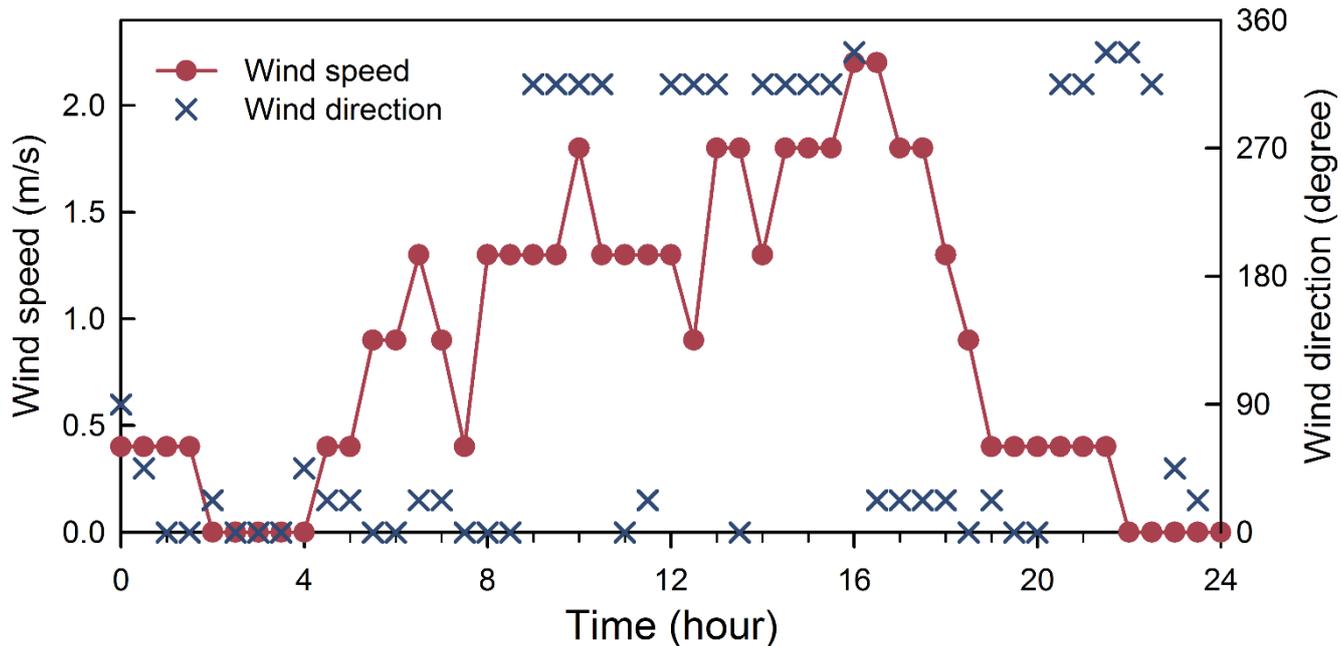


Figure S4: The wind speed and direction on Mar. 23rd, 2016, in urban Beijing.