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Supplement of

Measurements of non-volatile aerosols with a VTDMA and their correlations with carbonaceous aerosols in Guangzhou, China

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Fig. S1. Location of the measurement site.

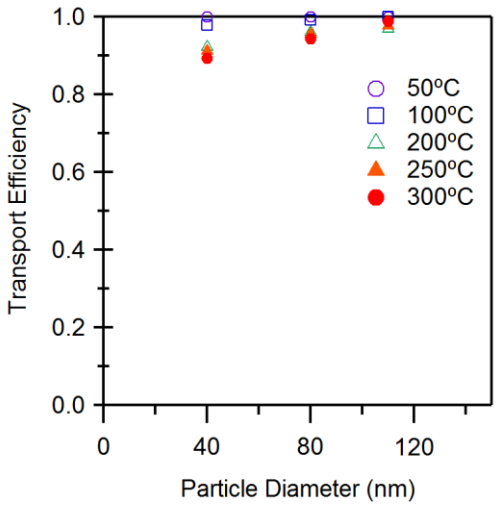

Fig. S2. Transport efficiency of NaCl in the VTDMA as a function of particle diameter and heating temperature.

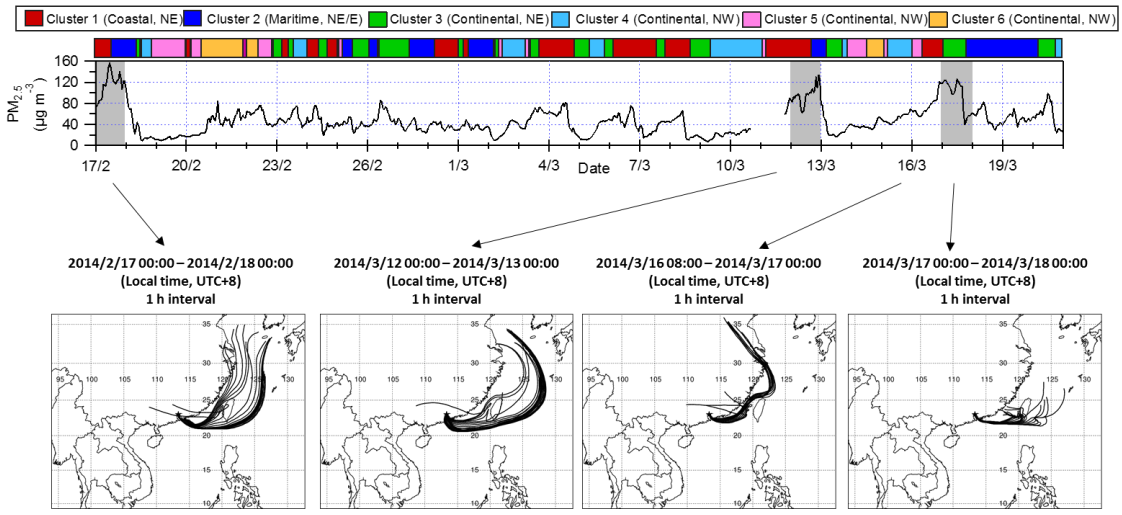

Fig. S3. Time series of $PM_{2.5}$ concentrations and 72 h back trajectories at hourly intervals on 17 Feb, 12, 16 and 17 Mar 2014.

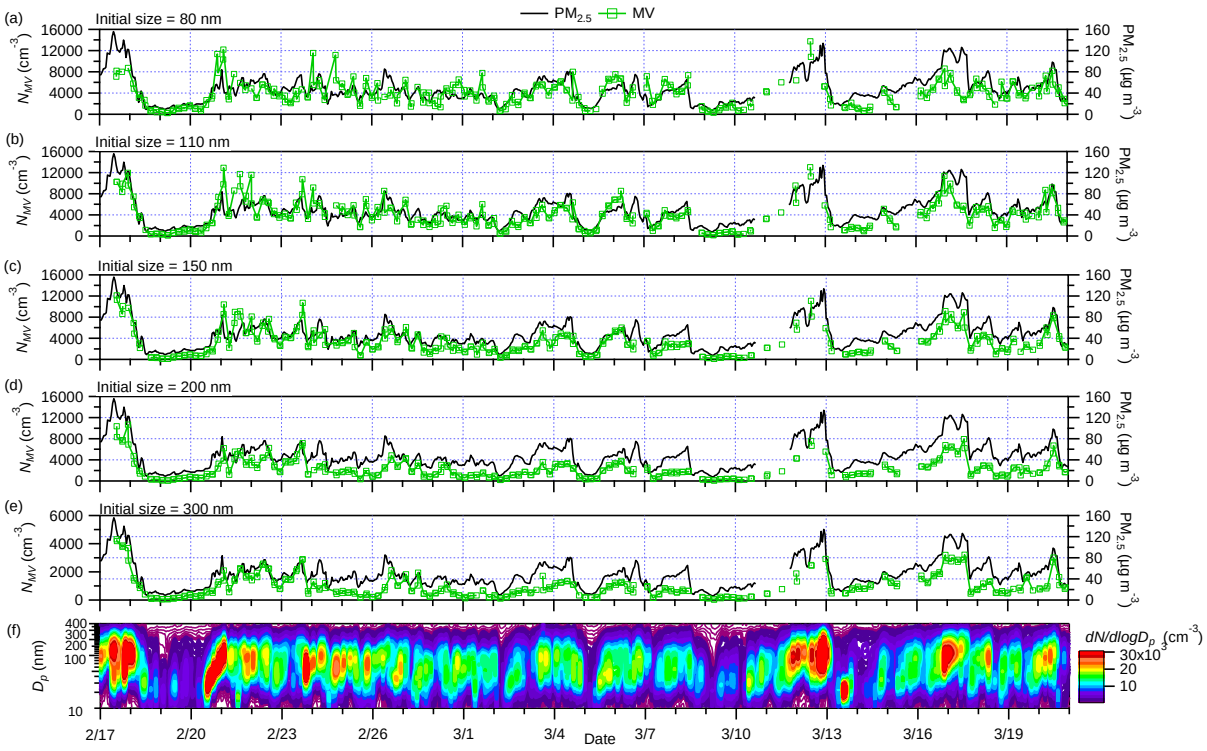

Fig. S4. (a–e) Time series of number concentrations of MV particles having initial diameters of 80 nm to 300 nm and (f) particle number size distributions during the campaign. Time series of $PM_{2.5}$ concentrations are plotted on the right axis in (a) to (e).

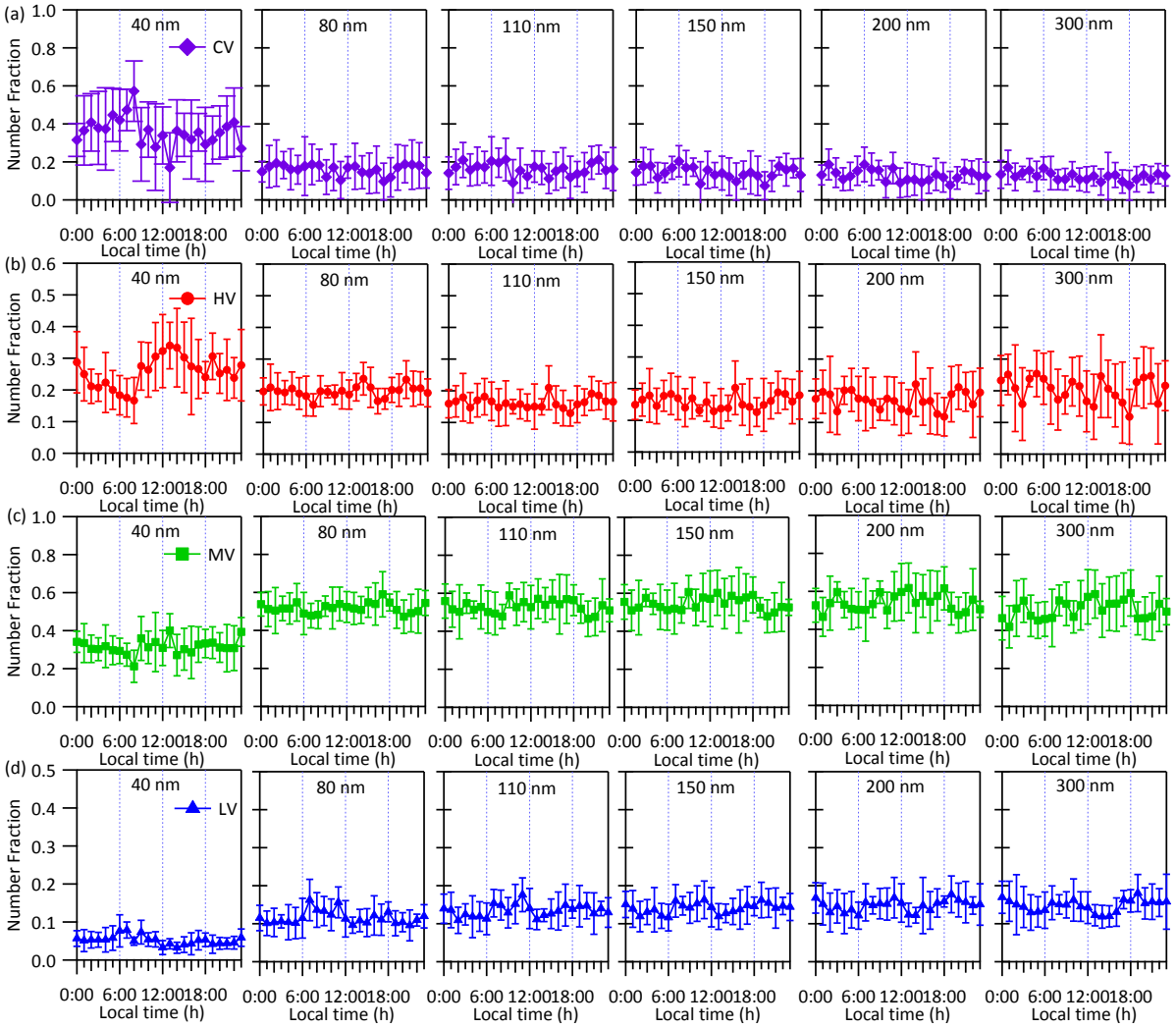

Fig. S5. (a–d) Diurnal variations in the number fractions of CV, HV, MV and LV particles having (from left to right) the six selected diameters ranging from 40 nm to 300 nm. Error bars represent one standard deviation.