

Interactive comment on “On the submicron aerosol distributions and CCN number concentrations in and around the Korean Peninsula” by J. H. Kim et al.

Anonymous Referee #2

Received and published: 10 April 2014

General comments: The paper “On the submicron aerosol distributions and CCN number concentration in and around the Korean Peninsula” by J. H. Kim, et al. 2014 provide a good quality data and the results are very valuable for understanding the aerosol impacts on Eastern Asia. The table and figure are clear. It is recommended to publish after revision.

Specific comments:

Page 5, Line 16: Is the size distribution measured by TSI SMPS 3936?

Page 7, Line 4/Figure 3: What do you mean “instrumental differences”? Please explain.

C1325

Is it possible that there is an issue with instrument? Such as flow fluctuation?

Page 7, Line 17-18: What does author try to point out here? Please clarify.

Page 9, Line 18/Figure 7: It seemed that with increase of traffic amount, N_{ccn}/N_{cn} decreases. Maybe plot using Traffic vs N_{ccn}/N_{cn} will better support the discussion.

Figure 1: why there is no error bars for N_{cn} ?

Figure 5: Please add error bars to the plots.

Figure 17/18: plots need legends.

Interactive comment on Atmos. Chem. Phys. Discuss., 14, 8095, 2014.

C1326