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*Supplement of*

## **A foehn-induced haze front in Beijing: observations and implications**

**Ju Li et al.**

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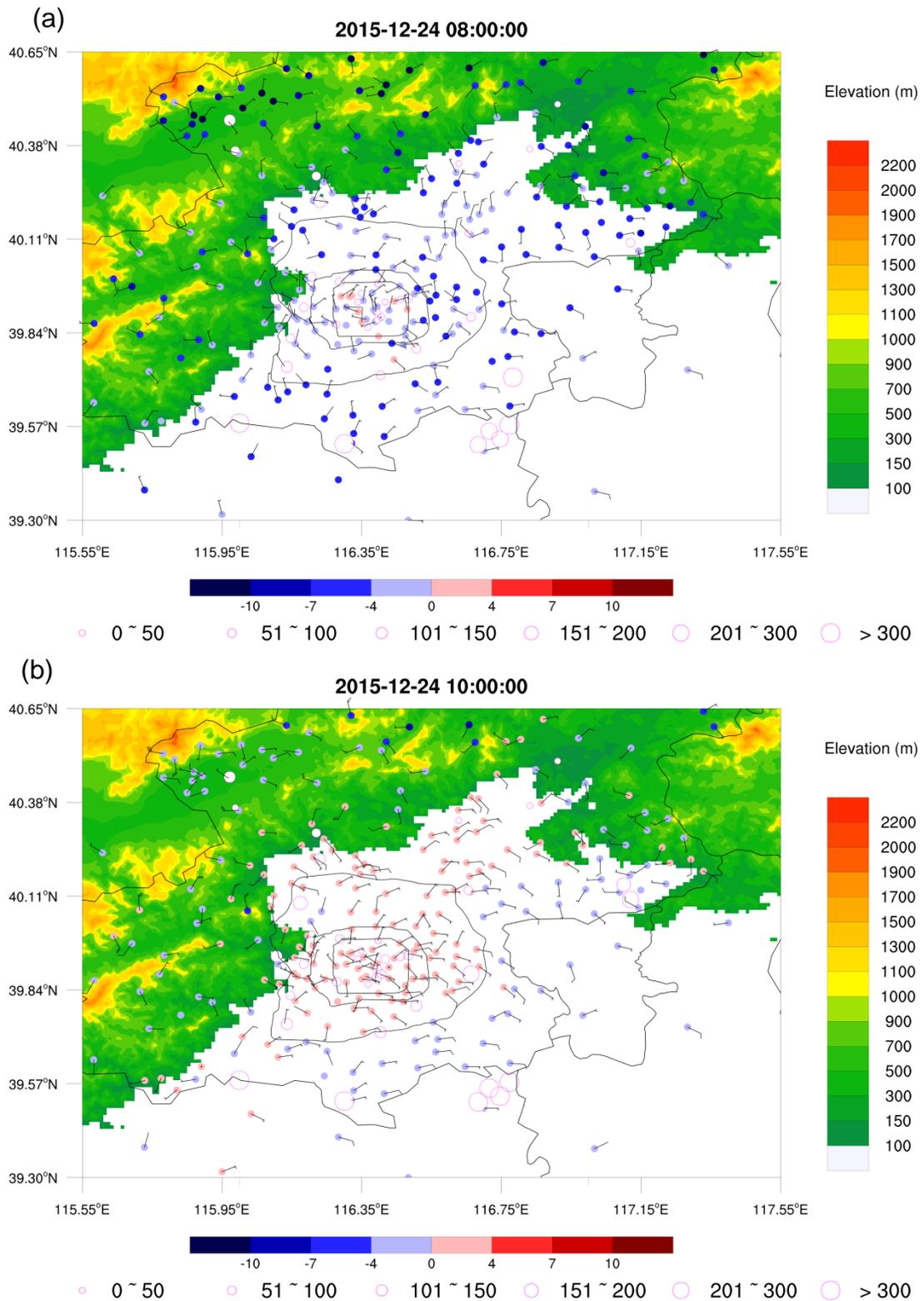


Fig S1. Temperature (color filled dots coded according to the bottom color bar), wind vectors (2 m s<sup>-1</sup> is one full bar) and PM<sub>2.5</sub> concentrations (purple circles; the size of the circle represents concentration values) in the plain area within and around Beijing at (a) 08:00 LST and (b) 10:00 LST.

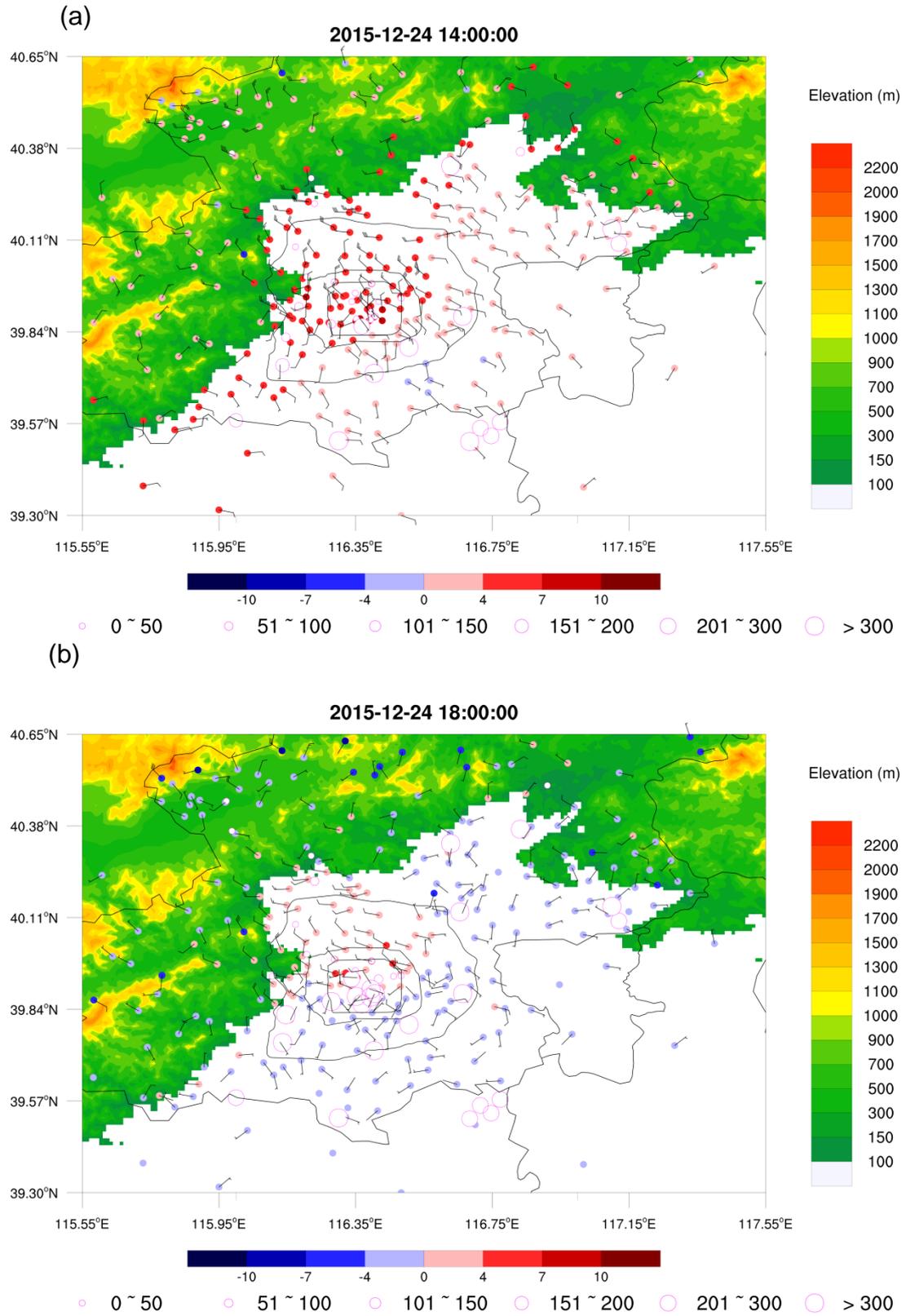


Fig S2. Same as Fig S1, but at (a) 14:00 LST and (b) 18:00 LST.

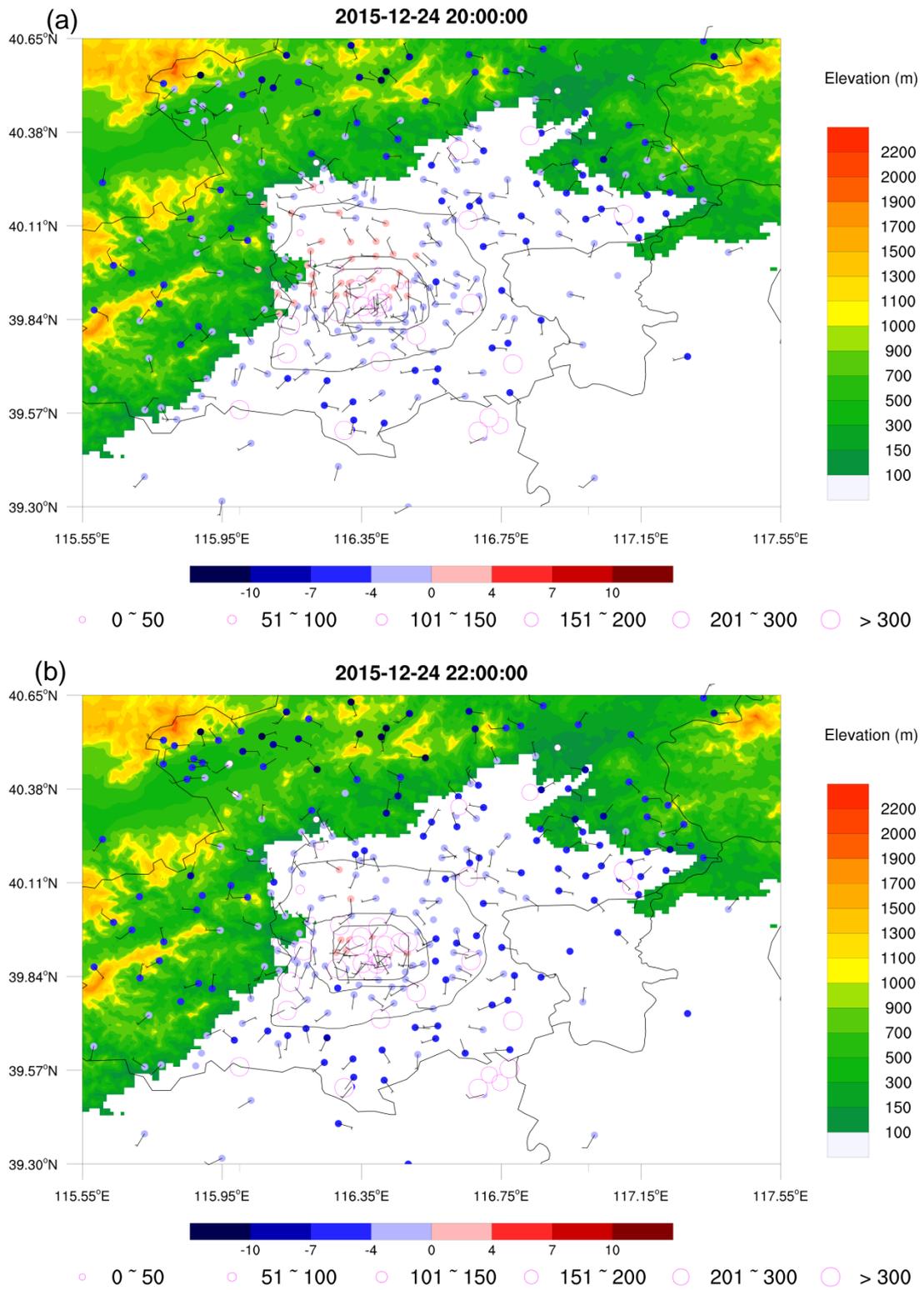


Fig S3. Same as Fig S1, but at (a) 20:00 LST and (b) 22:00 LST.

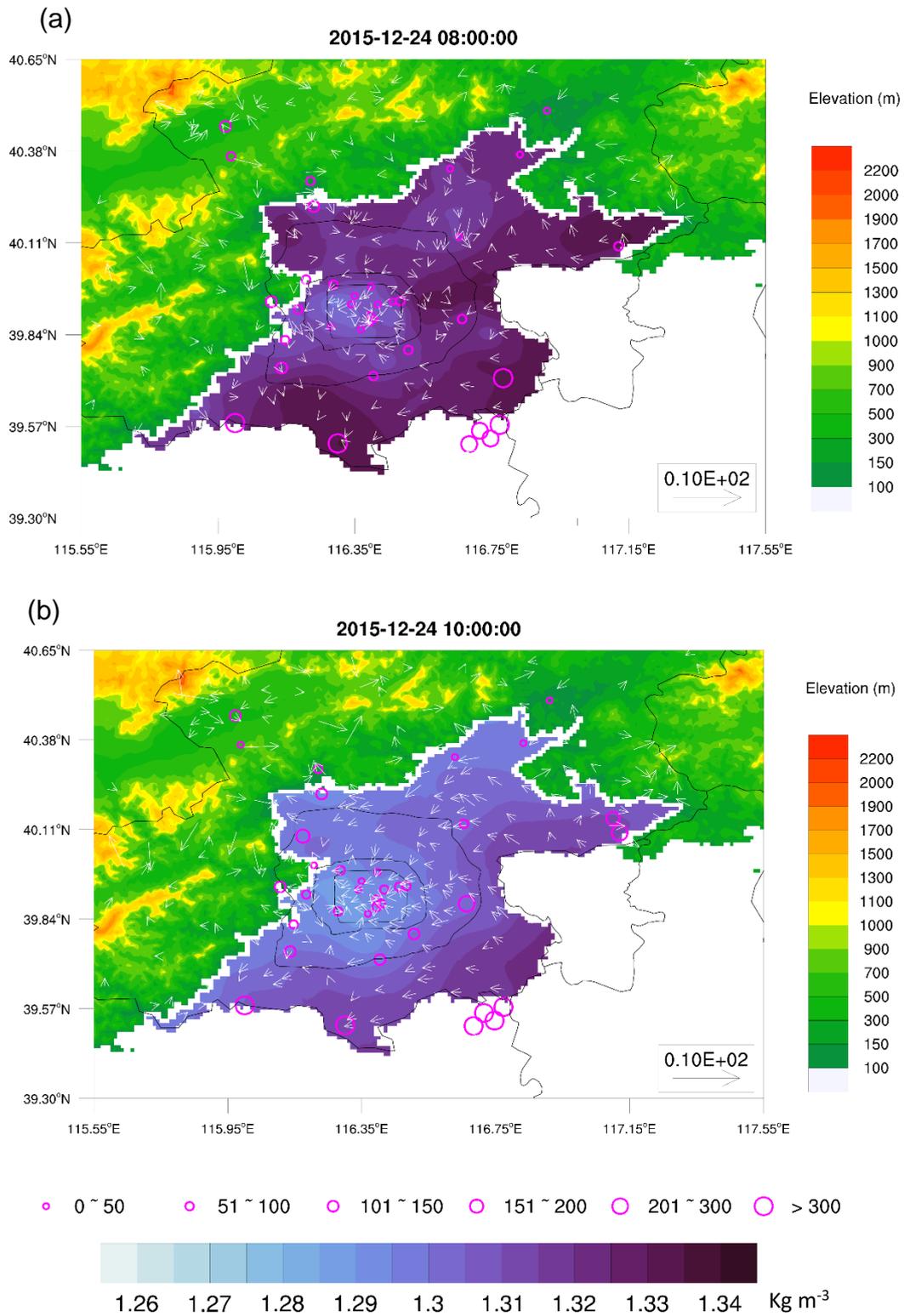


Fig S4. Air density (color filled contour map according to the bottom color bar), wind vectors ( $10 \text{ m s}^{-1}$  is one full arrow) and  $\text{PM}_{2.5}$  concentrations (purple circles; the size of the circle represents concentration values) in the plain area within and around Beijing at (a) 08:00 LST and (b) 10:00 LST.

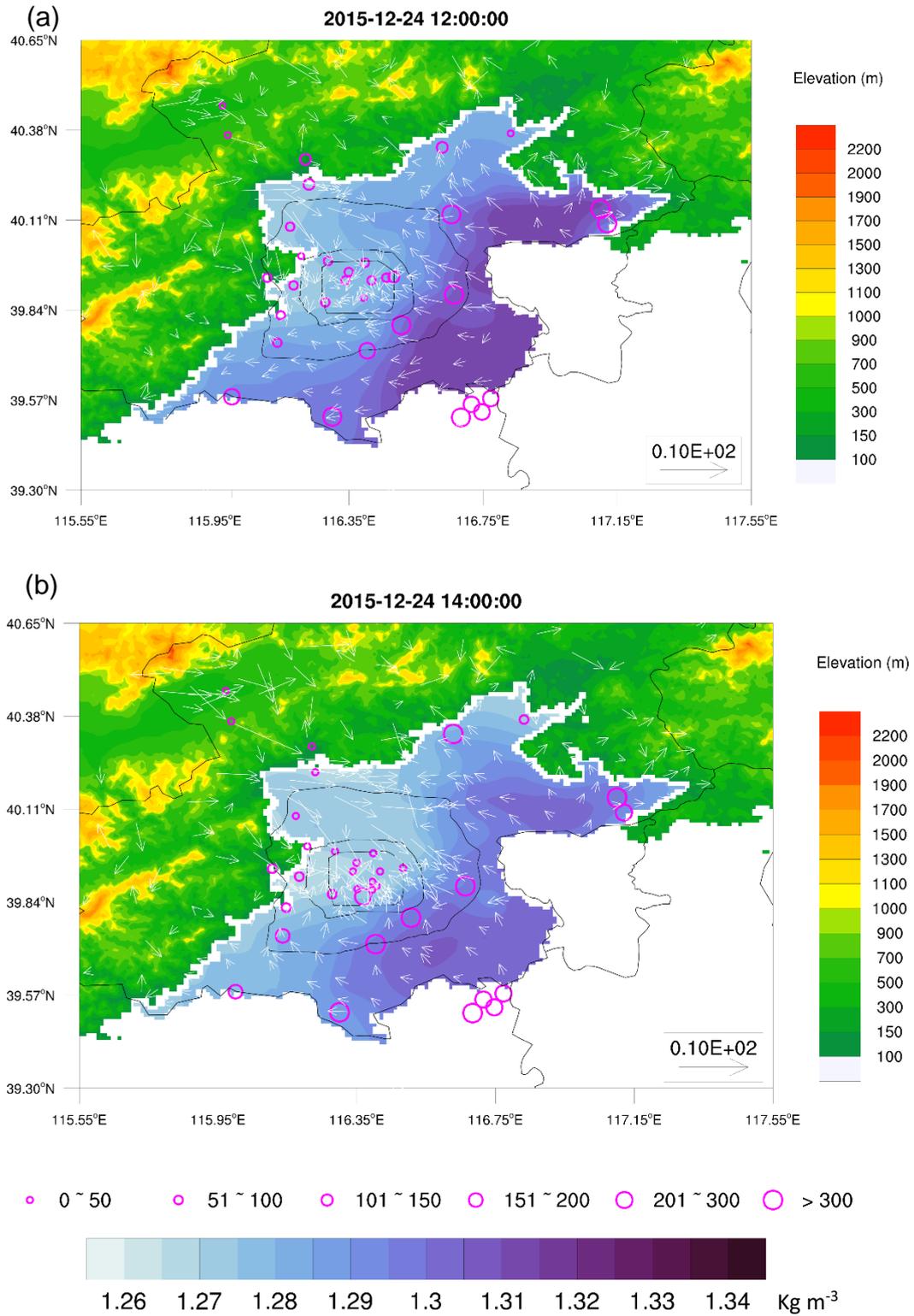


Fig S5. Same as Fig S4, but at (a) 12:00 LST and (b) 14:00 LST.

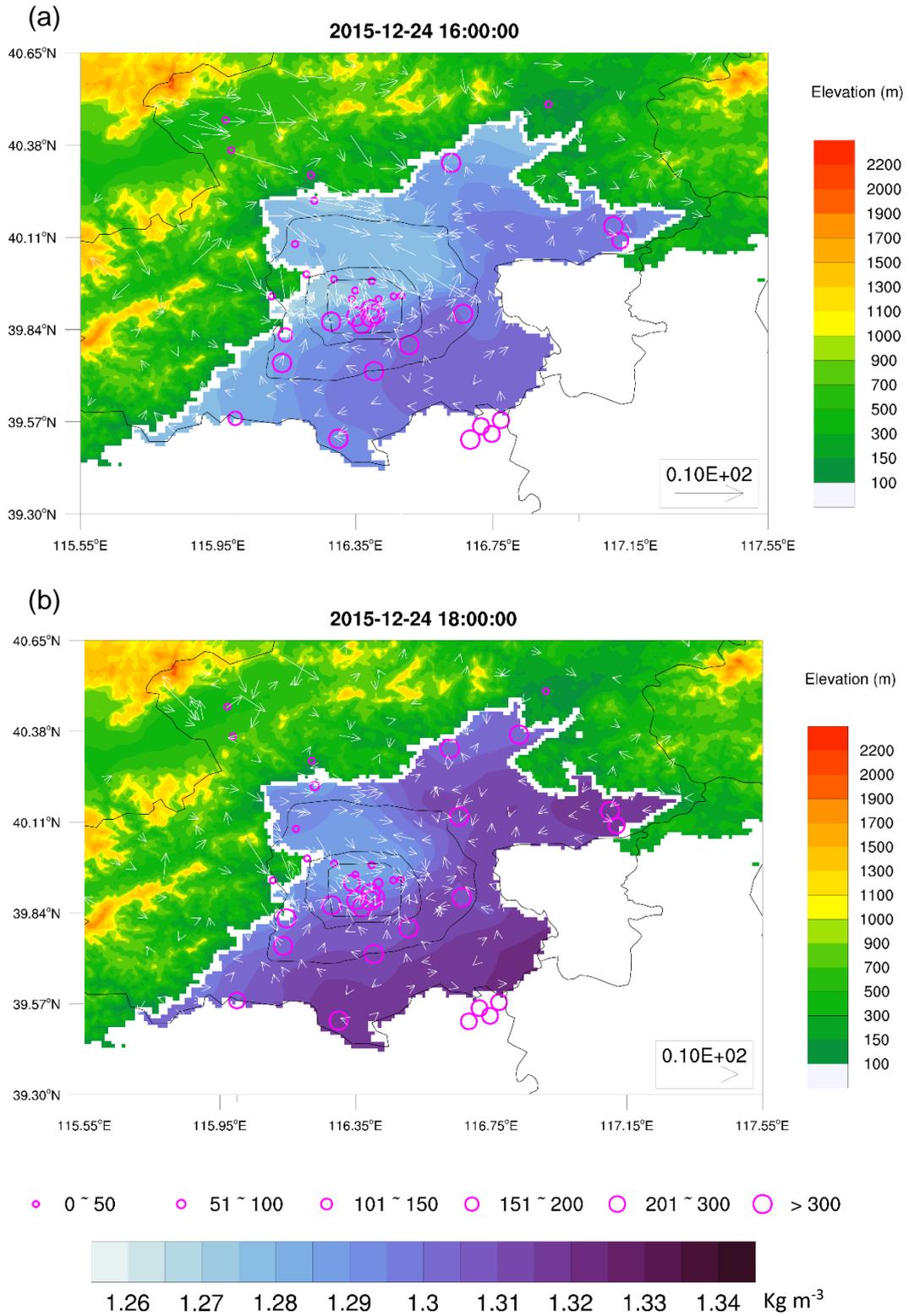


Fig S6. Same as Fig S4, but at (a) 16:00 LST and (b) 18:00 LST.

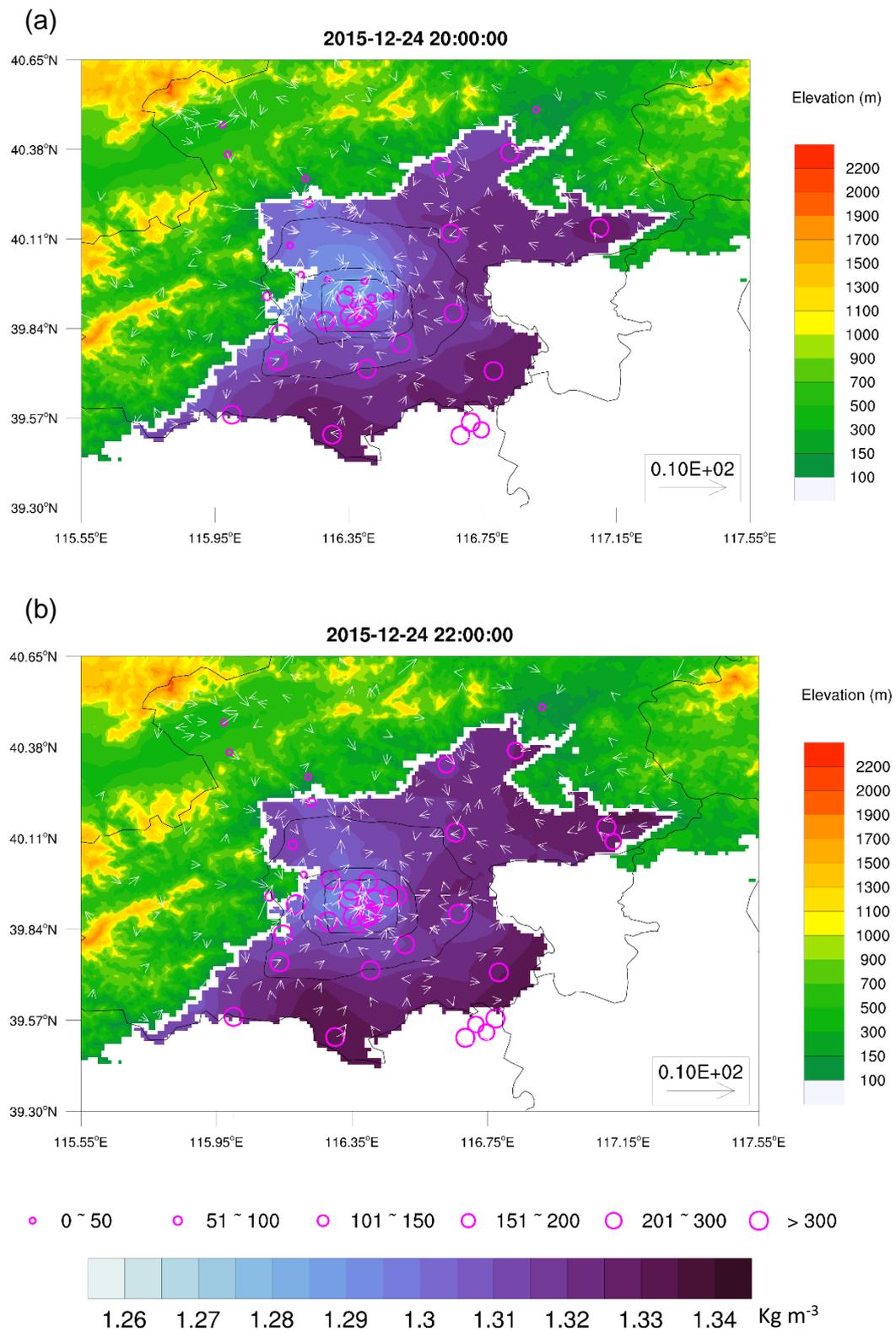


Fig S7. Same as Fig S4, but at (a) 20:00 LST and (b) 22:00 LST.