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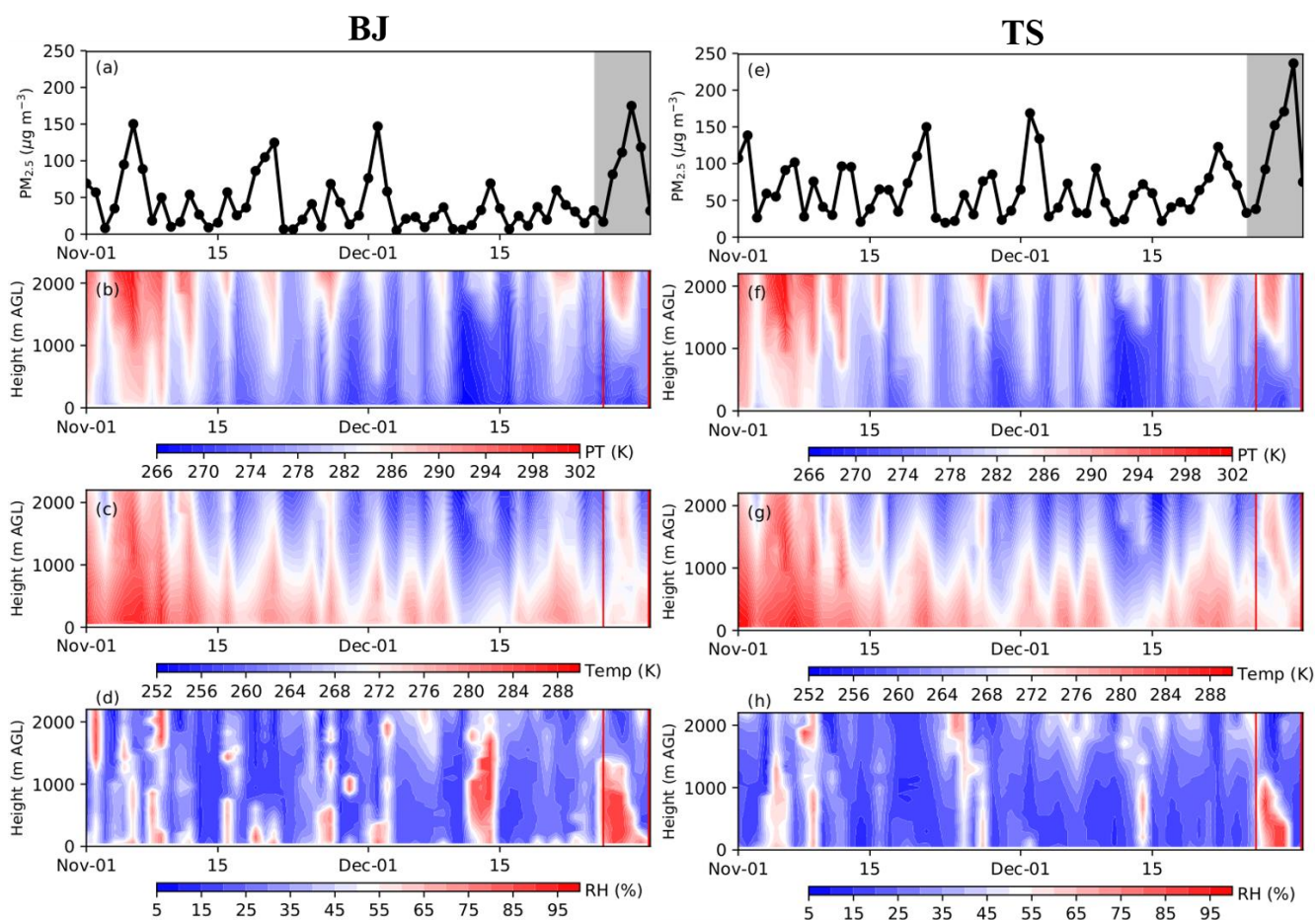
*Supplement of*

## **Integrated impacts of synoptic forcing and aerosol radiative effect on boundary layer and pollution in the Beijing–Tianjin–Hebei region, China**

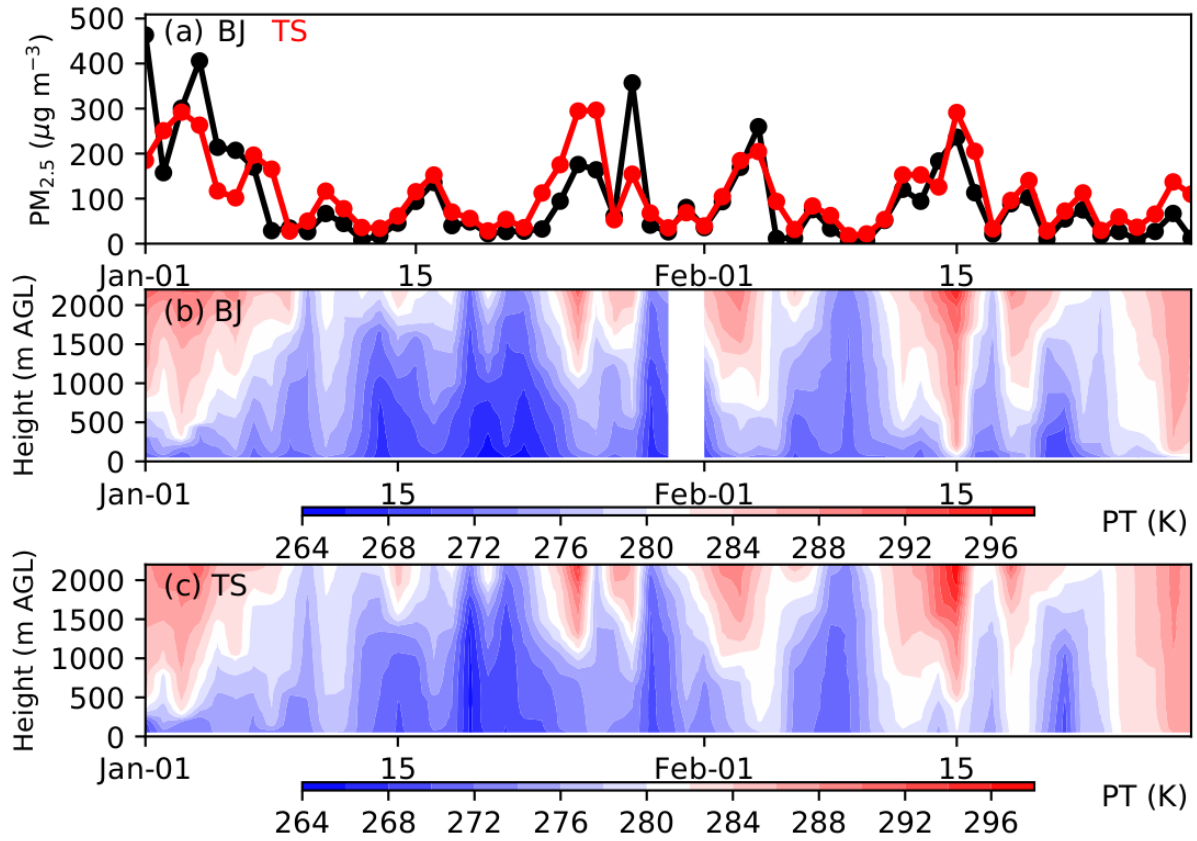
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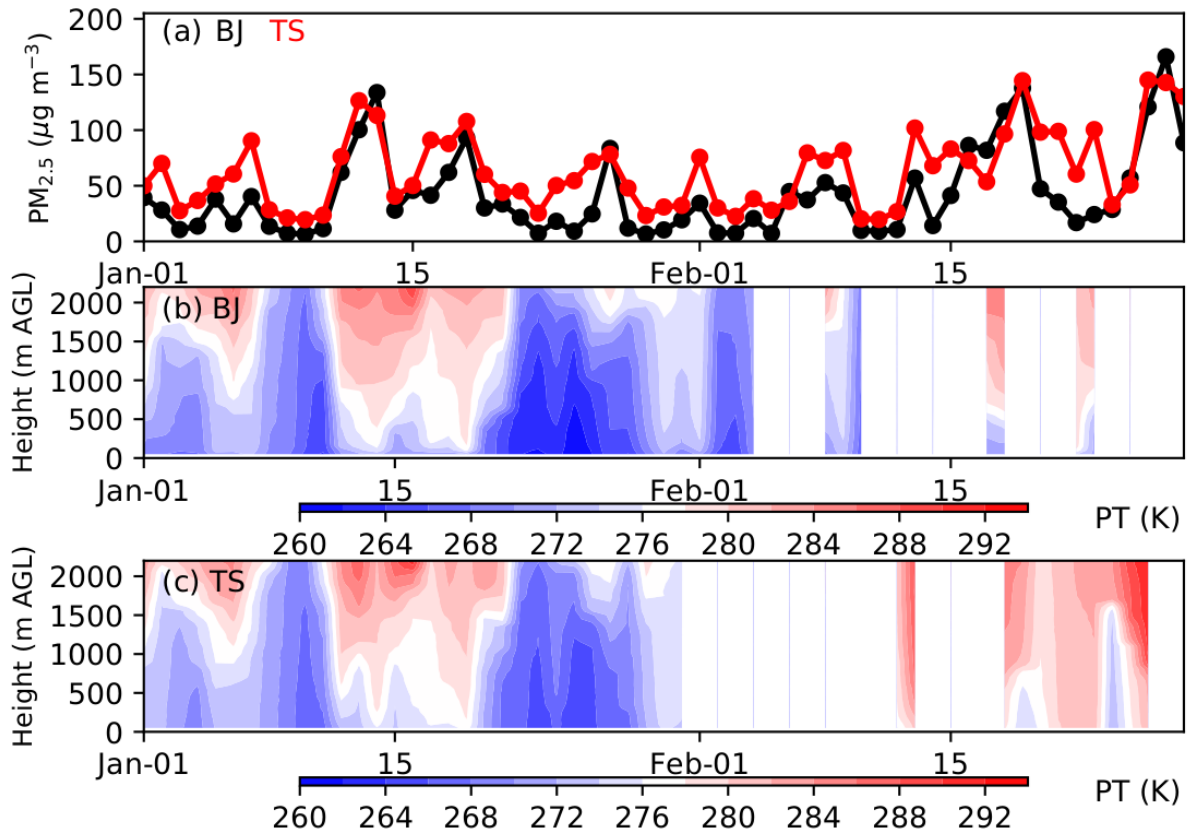
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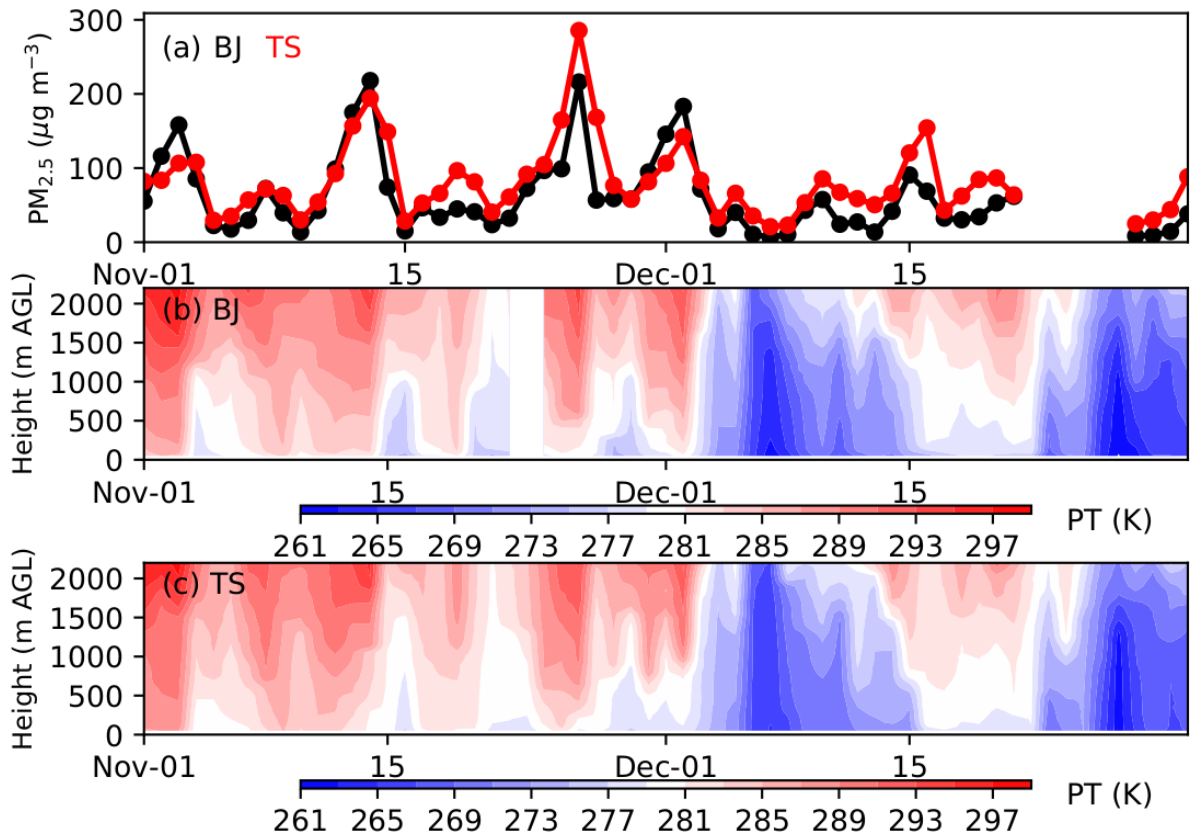
**Fig. S1.** Time series of observed (a, e)  $\text{PM}_{2.5}$  concentration from 1 November to 31 December 2017 in (left) Beijing and (right) Tangshan, and vertical structure of (b, f) potential temperature (PT), (c, g) temperature and (d, h) relative humidity (RH), derived from the sounding data at 2000 BJT.



**Fig. S2.** Time series of observed PM<sub>2.5</sub> concentration from 1 January to 28 February 2017 in (a) Beijing and Tangshan, and (b, c) vertical structure of potential temperature (PT) derived from the sounding data at 2000 BJT.



**Fig. S3.** Similar as Fig. S2, but for the PM<sub>2.5</sub> concentration and PT from 1 January to 28 February 2018.



**Fig. S4.** Similar as Fig. S2, but for the PM<sub>2.5</sub> concentration and PT from 1 November to 31 December 2018.