



Supplement of

Impacts of meteorological uncertainties on the haze formation in Beijing–Tianjin–Hebei (BTH) during wintertime: a case study

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Figure s1 Geopotential heights and wind vectors at the surface level from 13 to 20 January
2014. The red rectangle denotes the Beijing-Tianjin-Hebei area.



48 49 Figure s2 Same as Figure s1, but for 850 hPa.



52 Figure s3 Same as Figure s1, but for 500 hPa.



Figure s4 Temporal evolution of the ensemble spread for the surface (a) U component, (b) V
component, (c) temperature and (d) relative humidity at the meteorological site, and (e) the
PBL height at IRSDE from 13 to 20 January 2014.



Figure s5 Temporal evolution of the RESM for (a) POA, (b) SOA, (c) sulfate, (d) nitrate, and
(e) ammonium mass concentrations at IRSDE in Beijing from 13 to 20 January 2014.



Figure s6 Temporal evolution of the RESM for (a) PM_{2.5}, (b) O₃, (c) NO₂, (d) SO₂, and (e)
CO mass concentrations averaged over monitoring sites in BTH from 13 to 20 January 2014.
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Figure s7 Temporal evolution of the RESM for the PM_{2.5} mass concentrations averaged in (a)
Beijing, (b) Tianjin, (c) Baoding, and (d) Shijiazhuang from 13 to 20 January 2014.