Supplement of

Quantifying the relationship between PM$_{2.5}$ concentration, visibility and planetary boundary layer height for long-lasting haze and fog–haze mixed events in Beijing

Tian Luan et al.

Correspondence to: Xueliang Guo (guoxl@mail.iap.ac.cn)

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Figure S1: Comparison of PBL heights derived by MPL and by CL31

Figure S2: Relationship between PBL height derived by CL31 and PM$_{2.5}$ mass concentration for (a) haze and (b) fog–haze mixed events from January 2014 to March 2015 in Beijing city
Figure S3: Temperature (red contour lines, units: °C), RH (color shading, units: %) and wind (wind bar) distribution in (a) 925 hPa and (b) 850 hPa at 08:00 BST on 13 April 2014. The red dot represents the site of CMA.

Figure S4: Temperature (red contour lines, units: °C), RH (color shading, units: %) and wind (wind bar) distribution in 850 hPa at 08:00 BST on (a) 9 October and (b) 10 October 2014. The red dot represents the site of CMA.