SUPPLEMENTARY MATERIALS

Air Quality over the Yangtze River Delta during the 2010 Shanghai Expo

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Fig. S1. The locations of coal-fired power plants with individual annual energy (indicated by the size of circle) over YRD (Data source: CARMA 2007: Carbon Monitoring for Action).
Fig. S2. Monthly accumulated carbon emission from biomass burning over Eastern China derived from FLAMBE emission inventory.
**Fig. S3.** Daily variations of mixing layer height (m), atmospheric stability (°C/100m) and precipitation (mm) during the Expo.

**Fig. S4.** PM emission (Unit: kg/m²/s) from the international and domestic shipping sector derived from the EDGAR (Emissions Database for Global Atmospheric Research) global emission inventory.
Fig. S5. Monthly accumulated rainfall (mm) from the TRMM (Tropical Rainfall Measuring Mission) PR satellite sensor.