

Supplement material

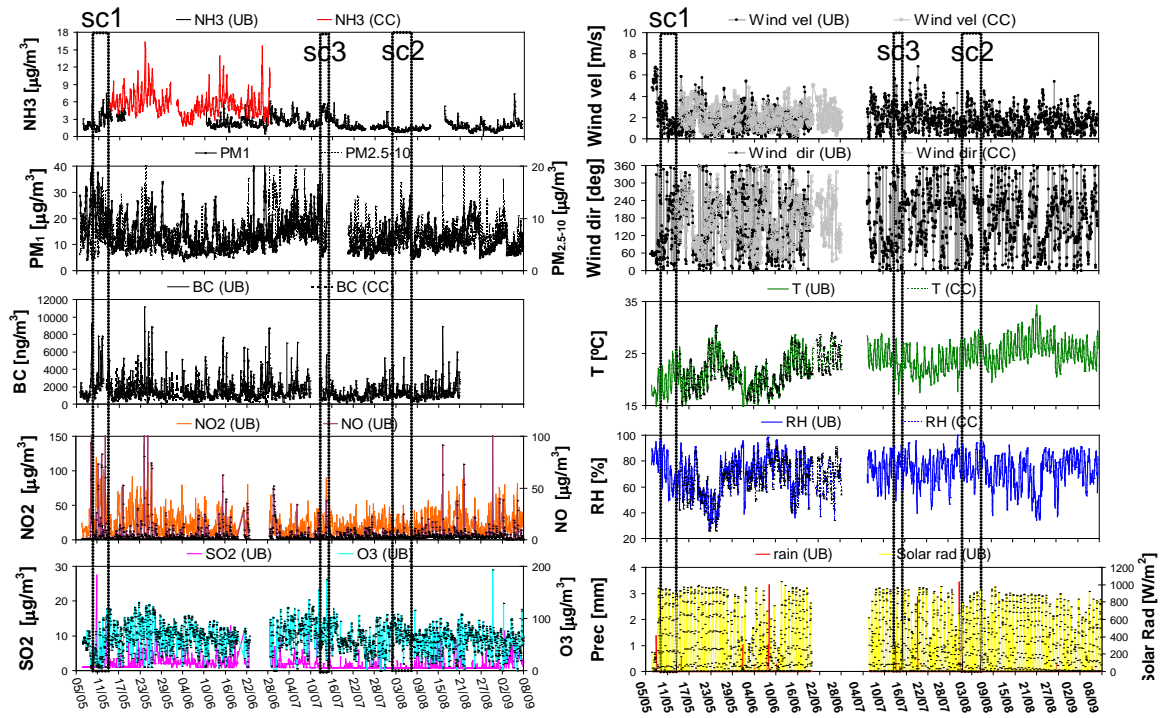
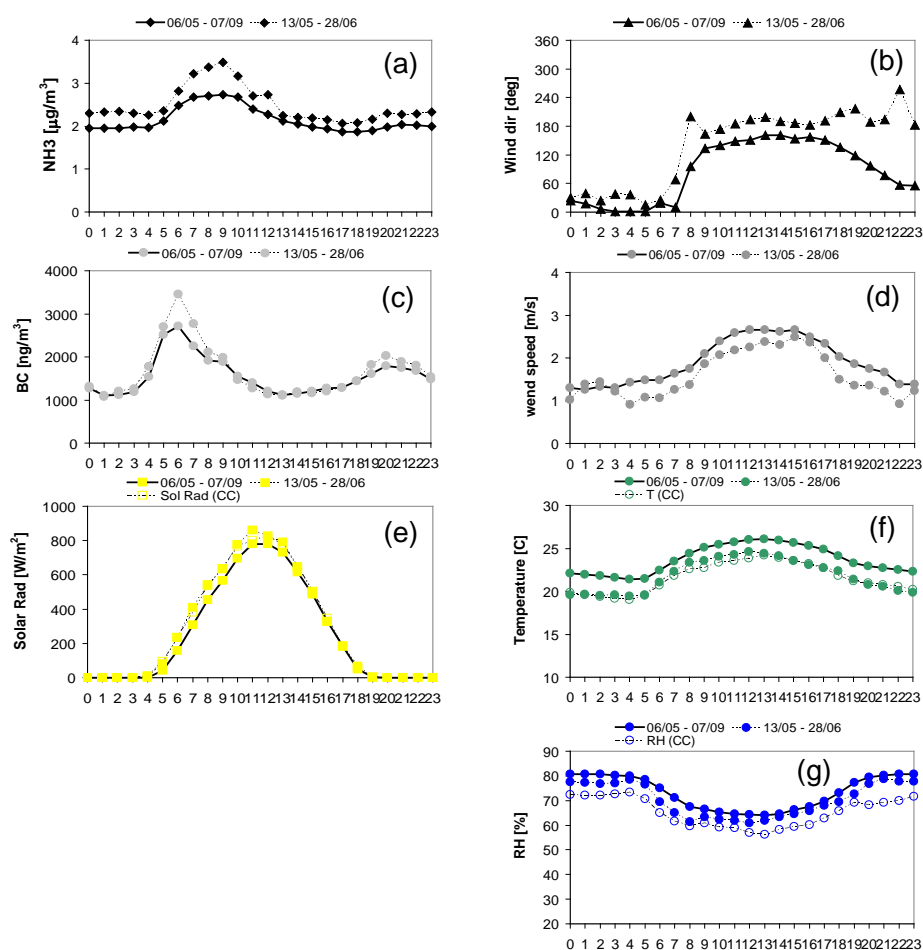


Fig. SI-1. Temporal series of the NH₃ concentrations and ancillary measurements performed at UB (6 May–7 September 2011) and CC (13 May–28 June 2011). Black dashed boxes sc1–sc3 highlight special cases discussed throughout the text.

1 Figure SI-2 shows that small differences were observed in the daily cycles of
 2 the data collected at UB station by averaging the UB data over the UB period
 3 (06/05 – 07/09/2011) and over the CC period (13/05 – 28/06/2011). Slightly
 4 higher NH_3 (15%) and BC (6%) concentrations and solar radiation (11%) and
 5 lower wind speed (-16%), temperature (-8%) and relative humidity (-4%) with
 6 very similar daily cycles were observed at UB by averaging the data over the
 7 CC measurement period. Moreover, Fig. SI-2 also shows that the mean values
 8 and daily cycles of solar radiation, temperature and relative humidity measured
 9 at both stations and integrated over the CC measurement time were similar with
 10 differences of around 1% for temperature and solar radiation and 6% for RH.

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39 **Figure SI-2:** Daily cycles of aerosol components and parameters measured at
 40 UB station and averaged over the UB measurement period (06/05 – 07/09; bold
 41 lines) and over the CC measurement period (13/05 – 28/06; dashed lines).